

Tanium™ Deploy User Guide

Autonomous IT. Unstoppable Business.

2025H2 Semiannual Release

Version 2.40

April 17, 2026

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Deploy overview

Deploy is a software management module that you can use to rapidly install, update, and remove software across large organizations with minimal infrastructure requirements. You can create deployments to run during a maintenance window that is convenient for your IT operations.

You can deploy applications or a group of applications to a flexible set of targets, including computer groups, user groups, departments, locations, individual computers, and individual users. You can also update existing software installation to the latest available versions, and create custom packages to install, update, and remove applications.

Software packages

A Tanium Deploy *software package* is a combination of source files, metadata, detection logic, and commands that are used to detect, install, update, and remove software from devices managed using Tanium Client.

Each software package contains the following elements:

Package Files

The files needed to install, update, remove, or configure an application. This typically includes installation files, but can also be any files that are used by the software package.

Package Details

The product vendor, name, version, and platform of the software package. A Self Service display name, description, or package icon can optionally be added.

System Requirements

The requirements to install or update the software package on an endpoint managed using Tanium Client: minimum RAM and disk space, system architecture, or specific operating systems that are supported.

Deploy Operations

The changes that the software package can make when it is deployed to endpoints: installing, updating, or removing the package. Software packages can have any combination of these operations defined, or they can have no operations and be used only for reporting and auditing purposes.

Installation Requirements

The conditions that must be met to install the software package, such as prerequisite applications.

Update Detection

The conditions that must be met to update the software package. Typically, this is the presence of a previous version of the product.

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Install Verification

The conditions that must be met to identify that the software package is installed.

For more information, see Create a software package on page 103.

Software bundles

A Tanium Deploy *software bundle* is a list of Deploy software packages that can be deployed and executed in an ordered sequence.

For more information, see Create a software bundle on page 123.

Predefined Package Gallery

The Tanium Deploy *Predefined Package Gallery* is a collection of software packages that you can use to distribute software package templates. These templates include all of the required information for you to import and deploy third-party software.

Software packages in the Predefined Package Gallery are automatically updated to new versions on an hourly basis where possible. As part of the process to provide the Predefined Package Gallery, Tanium uses security controls to ensure the integrity and authenticity of the files used in each software package. At least one of the following controls, in addition to other controls, is used for each file:

- Code signatures are validated for supported file formats: Windows executables, Microsoft Installer (MSI) files, macOS DMG archives, and macOS PKG installers.
- File hashes are validated against vendor-published checksums if available.
- File signatures are validated against vendor-published PGP or GPG keys.
- Files and metadata are retrieved over TLS whenever possible.
- File URLs are retrieved only from predefined vendor URL patterns when feasible.

Additionally, each file's SHA256 hash is calculated and used as part of the software package definition. When you import a software package from the Predefined Package Gallery, Tanium Deploy provides the file's hash and URL to the Tanium Server. The Tanium Server downloads the file and verifies that the file has the expected hash. If the hash does not match, the file is discarded and Deploy displays a Job failed - Sync Software Package Files warning with the error message *Could not cache some items for package "{package}" from {url}, error: File hashes do not match*. The software package is not usable until the correct file is provided.

For a list of packages in the Predefined Package Gallery, see Reference: Predefined Package Gallery on page 206.

For more information about how to use the software packages, see Import a software package from the Predefined Package Gallery on page 113.

Gallery package confidence score

Tanium assigns a confidence score to most unedited gallery packages. The confidence score rates the probability that a gallery package deployment will succeed. Tanium bases the score on execution success and performance metrics that endpoints across all Tanium environments returned for previous deployments of the package. For more information, see Tanium Console User Guide:

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Confidence score.

Tanium does not calculate confidence scores for the following gallery packages:

- Packages edited by users
- Packages that cannot be automatically imported
- Packages not usable without customization
- Remove Only or Audit Only packages



Tanium does not calculate confidence scores for user-created software packages or bundles.



Confidence score is available only if your Tanium instance is linked to your Tanium Account. For more information, see Tanium Account User Guide: Link an on-premises Tanium instance. It can take up to one hour for confidence scores to appear after linking your account. If you unlink your account, it can take up to five hours for confidence scores to disappear.

For more information, see Managing software on page 103.

Applicability scans

You can configure how often applicability scans run for the software packages that are in the Deploy software package catalog, and how frequently the applicability status cache is updated.

Applicability scans evaluate endpoints against the required operating system, minimum disk space, memory, and requirements. Applicability scans run under the following circumstances to determine if a device managed using Tanium Client is eligible to install, is eligible for update, installed, or has failed requirements:

- On a schedule according to the **Scan Interval** setting (Default: 24 hours)
- When the endpoint receives a new deployment for the first time or a new or updated software package
- When a deployment is about to run or has finished running a software package operation
- When a user logs onto a Windows computer or opens the Self Service Client

Install Eligible

The count of systems where the software is not installed and system requirements are met.

Update Eligible

The count of systems where one or more of the previous versions of the application are detected, and the software package can update those systems.

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Installed

The count of systems where the software package is already installed.

Update Ineligible

The count of systems where one or more of the previous versions of the application are detected, but the system requirements are not met.

Not Applicable

The count of systems where the system requirements or prerequisites are not met.

For information about how Deploy determines software package applicability, see View software package applicability on page 116.

Deployments

A deployment is a one-time or ongoing action to install, update, or remove applications on targeted endpoints. You can automate the creation of ongoing deployments. For more information, see Manually deploying software on page 125 and Automatically deploying software on page 135.

Deployment templates can be used to save deployment settings that you can issue repeatedly. For more information, see Create a deployment template on page 126.

Manual deployments

Manual deployments support deployments for a software package or bundle with a specified end time (one-time deployment) or no end time (ongoing deployment).

Automatic deployments

Automatic deployment configurations create automatic deployments, which are ongoing deployments for Predefined Package Gallery packages based on rule triggers. You can manually override the rule triggers to start the deployment.

Rule triggers can be based on the confidence score and age of the package in the Predefined Package Gallery or the latest available version of a package. For example, you can create a rule to automatically create a deployment for a specific Google Chrome version if the confidence score is High. For more information about confidence scores, see Gallery package confidence score on page 13.

Create automatic deployment configurations for software packages that you want to keep automatically updated with the latest versions or if you want deployments to automatically start based on rules. Create manual deployments to deploy specific versions of packages or bundles using the traditional deployment process.



You can deploy a software package in both manual and automatic deployments. Review your automatic and manual deployments to resolve any redundancies or conflicts.

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Deployments and ring deployment plans

For manual ongoing deployments for a software package and automatic deployments, you can select a ring deployment plan that specifies how the deployment progresses through a sequence of rings. The Deploy deployment specifies when a deployment starts in ring 1. The ring deployment plan then specifies how the deployment progresses through the rings.

For example, you might configure a ring deployment plan with a ring that targets the **All Windows** filter group and assign the plan to a deployment that targets the **All Servers** computer group. When the deployment progresses to that ring, it deploys only to endpoints that are members of both the **All Windows** and **All Servers** groups. Effectively, that means the deployment targets only Windows Servers in that ring. For more information, including how Deploy actions work with ring criteria, see Tanium Console User Guide: Managing deployment plans.

Maintenance windows

Maintenance windows designate the permitted times that the targeted computer groups are open for deployments to run. You can have multiple maintenance windows, even with overlapping times. Maintenance windows do not interfere with each other. For a deployment to take effect, the deployment and maintenance window times must be met. For more information, see Managing maintenance windows on page 156.

Self service profiles

With the Self Service Client application, you can publish software to Windows and macOS endpoints so that users can install software on their own without the need for IT to install for them. Deploy Self Service profiles and the Self Service Client application are used in conjunction with End-User Notification profiles in Tanium™ End-User Notifications 1.5 or later. For more information, see Managing End-User Self Service on page 159.

Tanium Autonomous IT Platform in Deploy

Tanium Autonomous IT Platform comprises a set of interrelated features across multiple Tanium solutions. The Autonomous IT Platform provides guided initial configuration for solutions, proactively collects intelligence about conditions in Tanium environments, provides guidance based on those conditions, and enables automated workflows to address issues. For more information, see Tanium Console User Guide: Working with the Autonomous IT Platform. Tanium Deploy provides the following Autonomous IT Platform features:

- **Confidence score**: The confidence score rates the probability that a Predefined Package Gallery package deployment will succeed. Tanium assigns a confidence score to most unedited Predefined Package Gallery packages. Use the confidence score to determine when to deploy a software package. For more information, see Gallery package confidence score and Tanium Console User Guide: Confidence score.
- **Deployment plans**: A deployment plan defines the sequence of rings (ring set) for a ring-based deployment. You can assign a deployment plan to manual ongoing deployments or automatic deployment configurations. For more information, see Deployments and ring deployment plans and Tanium Console User Guide: Managing ring deployments.

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- **Automatic deployment configurations**: An automatic deployment configuration automates the creation of Predefined Package Gallery package deployments based on rule triggers. Rule triggers can either use the latest available software package version or age of the software package in the gallery. For more information, see Automatically deploying software package.

Supported languages

You can select one of the languages in the following table for user interface (UI) text in the Deploy workbench and Tanium documentation. The language that you select for the workbench also sets the date and time format:

- **Dates**: In the table, the letters `dd`, `mm`, and `yyyy` represent the digits for day, month, and year respectively.
- **Times**: English (United States) times use the 12-hour clock in the format `hh:mm:ss [AM|PM] <time zone>`, where `hh`, `mm`, and `ss` represent the hour, minute, and second respectively. Other times use the 24-hour clock, where `GMT-<#>` indicates the offset from Greenwich Mean Time (GMT). For example, `GMT-7` indicates a time zone that is 7 hours ahead of GMT.

Supported languages with associated date and time formats

Language	Locale code	Date and time format
English (United States)	en-US	mm/dd/yyyy [AM|PM] <*time zone*>
French (France)	fr-FR	dd/mm/yyyy GMT-<#>
German (Germany)	de-DE	dd/mm/yyyy GMT-<#>
Japanese (Japan)	ja-JP	yyyy/mm/dd GMT-<#>
Korean (Korea, Republic of)	ko-KR	yyyy.mm.dd GMT-<#>
Spanish (Latin American)	es-LA	dd/mm/yyyy GMT-<#>

For information about language support, which types of text are translated, and the steps to select a language, see Tanium Console User Guide: Reference: Language support.

Interoperability with other Tanium products

Deploy works with other Tanium products to provide additional features and reporting.

End-User Notifications

Deploy uses Tanium™ End-User Notifications to notify users about deployments to Windows and macOS endpoints, and to configure End-User Self Service capabilities. You can create a message with your deployment to notify the user that the system is about to begin a deployment, has completed a deployment, and if postponements are enabled, to give the user the option to postpone the deployment or restart now. For more information, see Tanium End-User Notifications.

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Gateway

Use Gateway to access the Deploy API. For information about what features are available through the Gateway, see Tanium Gateway User Guide: Schema reference.

Reporting

If you have Tanium Reporting 1.12 or later, Deploy uses Tanium™ Reporting to create the charts on the Deploy **Overview** page. For more information, see Tanium Reporting.

Trends

Deploy has built in integration with Tanium™ Trends to provide data visualization. The **Deploy** board displays metrics related to software deployment, including machines running Deploy and gallery packages that are installed. The following panels are in the **Deploy** board:

- Summary
    - Deploy Coverage
    - Endpoints Missing Software Updates Released Over 30 Days Ago
    - Mean Time to Deploy Software
    - Software Installed by Self Service User Request
- Gallery Updates
    - Top 25 Gallery Packages Installed
    - Top 25 Gallery Package Updates Needed
- Endpoint Status
    - Online - Endpoints Running Deploy
    - Historical - Endpoints Running Deploy

For more information about how to import the Trends board that is provided by Deploy, see Tanium Trends User Guide: Importing the initial gallery.

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Gaining organizational effectiveness with Deploy

The four key organizational governance steps to maximizing the value that is delivered by Deploy are as follows:

- Develop a dedicated change management process. For more information, see Change management on page 19.
- Define distinct roles and responsibilities. For more information, see RACI chart on page 19.
- Validate cross-functional alignment. For more information, see Organizational alignment on page 23.
- Track operational maturity. For more information, see Operational metrics on page 23.

Change management

Develop a tailored, dedicated change management process for software management, taking into account the new capabilities provided by Tanium.

- Update SLAs with elevated expectations, from software identification to software deployment.
- Identify key resources in your organization to review and approve software, to achieve effective software deployment results (example, aligned to an organizational-specific RACI chart).
- Align activities to key resources for Tanium software management activities across IT Security, IT Operations, and IT Risk/Compliance teams.
- Designate change or maintenance windows for all software management scenarios (example: emergency upgrades to general software, to achieve optimized software management efficacy).
- Create a Tanium steering group (TSG) for software management activities, to expedite reviews and approvals of processes that align with SLAs.

RACI chart

A RACI chart identifies the team or resource who is **R**esponsible, **A**ccountable, **C**onsulted, and **I**nformed, and serves as a guideline to describe the key activities across the security, risk/compliance, and operations teams. Every organization has specific business processes and IT organization demands. The following table represents Tanium's point of view for how organizations should align functional resources against patch management. Use the following table as a baseline example.

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Task	IT Security	IT Operations	IT Risk/Compliance	Executive	Rationale
Deploy new or update existing corporate software For more information, see Standard Deploy install/update workflow on page 22.	I	A/R	I	-	Deployment of existing, approved corporate software and updating software versions is owned by the operations team. Include predefined notifications so that the security and risk/compliance teams are informed.
Deploy newly introduced corporate software For more information, see Standard Deploy install/update workflow on page 22.	C	A/R	I	-	Deployment of newly introduced corporate software is owned by the operations team. Include predefined notifications so that the security team is consulted and team risk/compliance team is informed.
Update or remove software due to threat intel/vulnerability For more information, see Standard threat intel/vulnerability update/remove workflow on page 23.	A	R	C	I	Updating or removal of corporate software that could be a threat to the environment is executed by the operations team, while the security team is ultimately accountable because the threat is deemed a risk to the environment. The risk/compliance team is consulted to ensure complete update or removal. The executive team is informed of the progress.

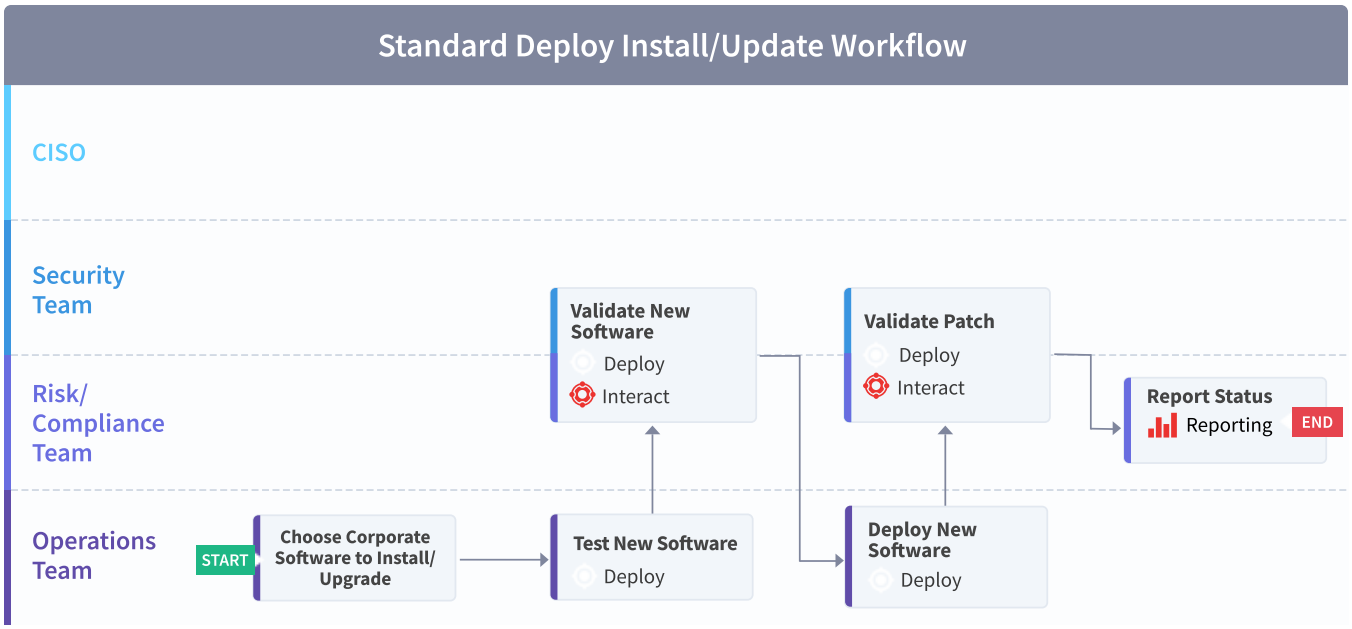
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Task	IT Security	IT Operations	IT Risk/Compliance	Executive	Rationale
Testing of new or updated software	I	A/R	C	-	New corporate software should be tested to ensure compliance to current standards. The operations team owns the execution and responsibility of testing, with consultation from the risk/compliance team. The security team is informed that new software can be deployed.
User acceptance testing (UAT) and deployment to production	I	A/R	C	-	New corporate software should be tested to ensure compliance to current standards before deployment to production. The operations team owns the execution and responsibility of testing, with consultation from the risk/compliance team. The security team is informed that new software is being deployed.
Publish optional software to the Self Service application	I	A/R	I	-	The operations team is responsible and accountable for offering the user the Self Service application with the ability to add or remove software as the user chooses. The risk/compliance and security teams are informed of the options that are presented to the user.

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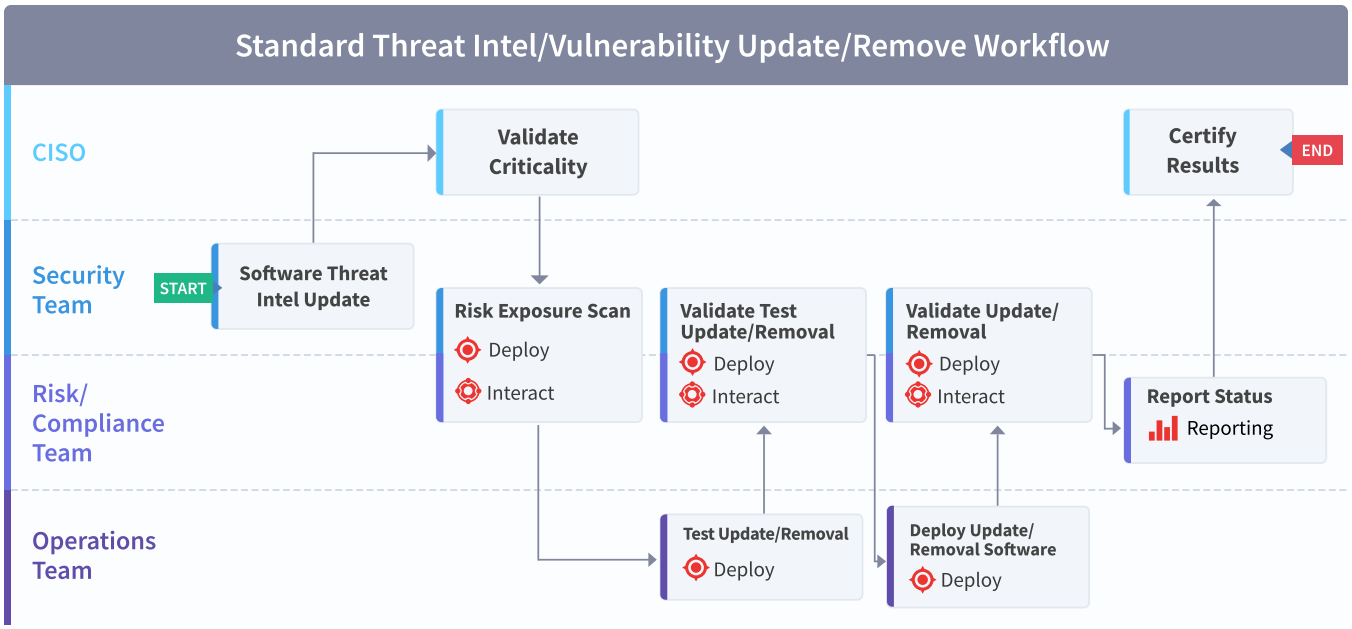
Task	IT Security	IT Operations	IT Risk/Compliance	Executive	Rationale
Reporting metrics/dashboard of deployment or removal	C	A/R	C	I	The operations team is responsible and accountable for the deployment or removal process, consulting with the security and risk/compliance teams on any questions or concerns. The executive team is informed of key metrics that impact the environment.

Standard Deploy install/update workflow



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Standard threat intel/vulnerability update/remove workflow



Organizational alignment

Successful organizations use Tanium across functional silos as a common platform for high-fidelity endpoint data and unified endpoint management. Tanium provides a common data schema that enables security, operations, and risk/compliance teams to assure that they are acting on a common set of facts that are delivered by a unified platform.

In the absence of cross-functional alignment, functional silos often spend time and effort in litigating data quality instead of making decisions to improve software management.

Operational metrics

Deploy maturity

Managing a software management program successfully includes operationalization of the technology and measuring success through key benchmarking metrics. The four key processes to measure and guide operational maturity of your Tanium Deploy program are as follows:

Process	Description
Usage	How and when Tanium Deploy is used in your organization
Automation	How automated Tanium Deploy is, across endpoints
Functional integration	How integrated Tanium Deploy is, across IT security, IT operations, and IT risk/compliance teams
Reporting	How automated Tanium Deploy is and who the audience of software management reporting is

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Benchmark metrics

In addition to the key software deployment processes, the four key benchmark metrics that align to the operational maturity of the Tanium Deploy program to achieve maximum value and success are as follows:

Executive Metrics	Deploy Coverage	Endpoints Missing Software Updates Released Over 30 Days	Mean Time to Deploy Software	Software Installed by Self Service User Request
Description	Number of endpoints in each of these categories: • **Optimal**: Endpoints where Deploy is operational • **Needs Attention**: Endpoints that do not have the Deploy tools installed, are not targeted by a profile, or do not have a supported version of the Tanium Client installed • **Unsupported** : Endpoints with an operating system version that is not supported by Deploy	Percentage of endpoints that require an update.	Average number of days it takes to install or upgrade software on workstations.	Percentage of software that is installed through the Self Service Client application.
Instrumentation	Uses the `Deploy - Coverage Status` sensor to determine the endpoints where Deploy is optimal, needs attention, or unsupported.	Number of endpoints that are reporting at least one software application that is eligible for an update for more than 30 days / number of endpoints managed by Deploy.	The time it takes from software availability date to software installation date averaged by system, in the last three months.	Number of successful deployments through self-service / the total number of successful deployments on an endpoint in the last three months.

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Executive Metrics	Deploy Coverage	Endpoints Missing Software Updates Released Over 30 Days	Mean Time to Deploy Software	Software Installed by Self Service User Request
Why this metric matters	Low percentage of **Optimal** against total manageable endpoints indicates that Deploy is not being used to its full potential and maximum ROI is not being achieved because you are covering only part of the environment. You cannot deploy software and update 3rd party applications to devices that are not under management (member of the Deploy action group). You also cannot provide full visibility of your environment without the tools being installed.	High percentage indicates lack of 3rd party update process or current process is not working. High percentage indicates configuration drift and could indicate a wider issue(for example, all users have admin rights). The Predefined Package Gallery can also provide insight into the overall state of the environment before import.	If it takes you too long to deploy software and validate that it was applied, you are at risk of being exploited by the vulnerabilities that are addressed by that software. Tanium is great at sending the software catalog and deployments and getting visibility of the enterprise. Package building is simple and quick with Deploy and even more so with using the Predefined Package Gallery and starting with a pre-built template to edit or test directly.	A moderate percentage means that users are installing software on their own without the use of IT resources like a help desk. A high percentage indicates too much dependency on user-installed applications and implies that administrative software installations are down, which can show a lack of control of software installations. A low or zero number indicates that either the feature is underused or not used at all.

Use the following table to determine the maturity level for Tanium Deploy in your organization.

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		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
Process	Usage	Deploy configured; Known common software imported from the Predefined Package Gallery	Piloting deployment of new software; Creating packages and bundles; Deploy is used by exception	Deploy is used for software updates, new software, and removal of software to audit legacy tooling	Deploy is used as the default tooling for software updates, new software deployment, and removal of software; Legacy tooling is used for audit	Deploy is used as the default tooling for software updates, new software deployment, and removal of software; Legacy tooling is sunset

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		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
	Automation	Manual	Manual	Partially automated (>50% of software deployment process automated)	Partially automated (>75% of software deployment process automated); Software available on endpoint for end user self service	Fully automated (>90% of patch deployment process automated); Software available on endpoint for end user self service
	Functional integration	Consult with software packaging or deployment teams and application owners	Consult with software packaging or deployment teams and application owners	Consult with help desk or support and IT Leadership or peers in enterprise vulnerability management and threat management	Deploy, Asset, Connect, and Reporting integrated into enterprise vulnerability management, threat management, and asset management tools, such as Flexera and ServiceNow	Deploy, Asset, Connect, and Reporting integrated into enterprise vulnerability management, threat management, and asset management tools, such as Flexera and ServiceNow; Approval workflow integration for tracking of licensed applications
	Reporting	Manual; Reporting for Operators only	Manual; Reporting for Operators and peer group only	Automated; Reporting for Operators and peer group only	Automated; Reporting tailored to stakeholders ranging from Operator to Executive	Automated; Reporting tailored to stakeholders ranging from Operator to Executive

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		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
Metrics	Deploy Coverage	0-92%	93-94%	95-96%	97-98%	99-100%
	Endpoints Missing Software Updates Released Over 30 Days	> 15%	11-15%	6-10%	2-5%	0-1%
	Mean Time to Deploy Software	> 30 days	26-30 days	21-25 days	15-20 days	1-14 days
	Software Installed by Self Service User Request	0-19%	20-35%	36-50%	51-75%	76-100%

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Deploy requirements

Review the requirements before you install and use Deploy.

Core platform dependencies

Make sure that your environment meets the following requirements:

- Tanium license that includes Deploy. For more information about how to get Deploy, see Tanium Solutions & Bundles.
- **Tanium™ Core Platform servers**
- **Tanium™ Client:** Any supported version of Tanium Client. For more information, see Tanium Client Management User Guide: Client version and host system requirements.
  If you use a Client version that is not listed, certain product features might not be available, or stability issues can occur that can only be resolved by upgrading to one of the listed Client versions.

Computer group dependencies

When you first sign in to Tanium Console after a fresh installation of Tanium Server, the server automatically imports the `All Computers` computer group, which Deploy requires.

For earlier versions of the Tanium Server, or after upgrading from an earlier version, you must manually create the computer groups. For more information, see Tanium Console User Guide: Create a computer group.

Solution dependencies

Other Tanium solutions are required for Deploy to function (required dependencies) or for specific Deploy features to work (feature-specific dependencies). The installation method that you select determines if the Tanium Server automatically imports dependencies or if you must manually import them.



Some Deploy dependencies have their own dependencies, which you can see by clicking the links in the lists of Required dependencies on page 30 and Feature-specific dependencies on page 30. Note that the links open the user guides for the latest version of each solution, not necessarily the minimum version that Deploy requires.

Tanium recommended installation

If you select **Tanium Recommended Installation** when you import Deploy, the Tanium Server automatically imports all your licensed solutions at the same time. For more information, see Tanium Console User Guide: Import all modules and services.

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Import specific solutions

If you select only Deploy to import and are using Tanium Core Platform 7.5.2.3531 or later with Tanium Console 3.0.72 or later, the Tanium Server automatically imports the latest available versions of any required dependencies that are missing. If some required dependencies are already imported but their versions are earlier than the minimum required for Deploy, the server automatically updates those dependencies to the latest available versions.

If you select only Deploy to import and you are using Tanium Core Platform 7.5.2.3503 or earlier with Tanium Console 3.0.64 or earlier, you must manually import or update required dependencies. For more information, see Tanium Console User Guide: Import, re-import, or update specific solutions.

Required dependencies

Deploy has the following required dependencies:

- Tanium™ Endpoint Configuration
- Tanium™ Data Service (TDS)
- Tanium Trends
- Tanium End-User Notifications
- Tanium™ System User Service

Feature-specific dependencies

If you select only Deploy to import, you must manually import or update its feature-specific dependencies regardless of Tanium Console or Tanium Core Platform versions. Deploy has the following feature-specific dependencies:

- Tanium™ Reporting. Review charts on the **Overview** page. If Reporting is not installed, Trends creates the charts.
    - Tanium™ Blob Service
    - Reporting Content

Client extensions and endpoint tools

Tanium Endpoint Configuration installs Client Extensions and other tools for Deploy on endpoints. Client extensions perform tasks that are common to certain Tanium solutions. Each Client Extension and tool might have recommended security exclusions to allow them to run without interference. For more information, see Security exclusions. For a list of Deploy tools, see Reference: Deploy endpoint tools on page 244. For a list of all Client Extensions and tools, see Tanium Client Management User Guide: Reference: Client extensions used for Tanium solutions.

Tanium Server and Module Server

Deploy is installed and runs as a service on the Module Server host computer. The impact on the Module Server is minimal and depends on usage.

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For information about Module Server sizing in a Windows deployment, see Tanium Core Platform User Guide for Windows Deployments: Host system sizing guidelines.

Endpoints

Contact Tanium Support on page 191 for customized tuning to your environment. For more information, see Tanium Platform User Guide: Managing Tanium Core Platform Settings.

Supported operating systems

The following endpoint operating systems are supported with Deploy. For more information about Tanium Client versions, see Tanium Client Management User Guide: Client version and host system requirements.

Operating System	Version	Notes
Windows Server	Windows Server 2008 R2 Service Pack 1 or later	• Windows Server Core not supported for End-User Notifications functionality. • Windows Server 2008 R2 Service Pack 1 requires Microsoft KB2758857. • Windows Server 2012 R2 requires Microsoft KB2919394 or KB2919355 for End-User Self Service functionality.
Windows Workstation	Windows 7 Service Pack 1 or later	• Windows 7 Service Pack 1 requires Microsoft KB2758857. • Windows 8.1 requires Microsoft KB2919394 or KB2919355 for End-User Self Service functionality. • IMPORTANT Deploy 2.39 or later supports Arm-based endpoints starting with Windows 11.

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Operating System	Version	Notes
macOS	• macOS 15 Sequoia • macOS 14 Sonoma • macOS 13 Ventura • macOS 12 Monterey • macOS 11 Big Sur • macOS 10.15 Catalina • macOS 10.14.6 Mojave • macOS 10.13.6 High Sierra	**IMPORTANT** Apple does not provide security updates for macOS 10.15 and earlier versions and Tanium does not test these versions. macOS 10.13 has known issues with file extraction and other features may not work as expected. For full Deploy functionality and support, upgrade to macOS 11 or later. **NOTE** End-User Self Service is only available on macOS 11 or later.

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Operating System	Version	Notes
Linux	• AlmaLinux 8.x, 9.x • Amazon Linux 1 AMI, Amazon Linux 2 TLS, or Amazon Linux 2023 • CentOS 6 or 7 • Debian 8 or later • openSUSE Linux 11.x Service Pack 3 or later, 12.x, 15.x • Oracle Linux 6.x, 7.x, 8.x, 9.x • Red Hat Enterprise Linux (RHEL) 6.x, 7.x, 8.x, 9.x • Rocky Linux 8.x, 9.x • SUSE Linux Enterprise Desktop 11.3, 11.4, 12.x, 15.x • SUSE Linux Enterprise Server 11.3, 11.4, 12.x, 15.x • Ubuntu 14.04 or later	 Operating systems based on Linux Kernel 2.6 (RHEL 6, CentOS 6, Oracle Linux 6, and openSUSE 11) do not support the Deploy method of extracting and compressing files. Software package **Extract** commands fail and Deploy does not compress endpoint logs.

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Disk space requirements

- Endpoints must have at least 2 GB available in free disk space. For more information, see Tanium Client Management User Guide: Hardware requirements.
- The Deploy endpoint tools include some Tanium Performance endpoint tools. Performance requires 100 MB plus the amount specified in the Database Maximum Size parameter (1 GB by default). (For more information, see Tanium Performance User Guide: Managing profiles.) Note that the Performance database collects approximately 45 MB per day for busy servers and 25-35 MB per day for workstations.

Third-party software

If you are using Deploy on a system managed with Microsoft App Control for Business [formerly called Windows Defender Application Control (WDAC)], you must configure Tanium as a managed installer in App Control. Specify `TaniumCX.exe` as the managed installer executable. For more information, see Microsoft Documentation: Configure managed installer tracking with AppLocker and App Control.

Host and network security requirements

Specific ports, processes, and URLs are needed to run Deploy.

Ports

The following ports are required for Deploy communication.

Source	Destination	Port	Protocol	Purpose
Module Server	Module Server (loopback)	17463	TCP	Internal purposes; not externally accessible



Configure firewall policies to open ports for Tanium traffic with TCP-based rules instead of application identity-based rules. For example, on a Palo Alto Networks firewall, configure the rules with service objects or service groups instead of application objects or application groups.

Security exclusions

If antivirus (AV) or other security software is in use in the environment to monitor and block unknown host system processes, Tanium requires that a security administrator create exclusions to allow the Tanium processes to run without interference. This software can include security applications that are included with an endpoint operating system, such as `fapolicyd` on some Linux distributions, or Microsoft Defender on Windows. The configuration of these exclusions varies depending on the security software. For more information about security exclusions to define across Tanium, see Tanium Client Management Guide: Reference: Endpoint security exclusions and for Windows-based Tanium Core Platform deployments, see Tanium Core Platform User Guide for Windows Deployments: Tanium Core Platform Server security exclusions.

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NOTE

If the required exclusions are not configured, or if Tanium suspects interference from AV or security software, Tanium might require you to remove or disable the AV or security software temporarily for the purposes of troubleshooting and restore it once troubleshooting is complete.

Deploy security exclusions for Tanium Core Platform servers (Windows deployments only)

Target Device	Notes	Exclusion Type	Exclusion
Module Server		Process	`<Module Server>\services\deploy-service\node.exe`
	Required when Endpoint Configuration is installed	Process	`<Module Server>\services\endpoint-configuration-service\TaniumEndpointConfigService.exe`

For Windows endpoints, review and follow the Microsoft antivirus security exclusion recommendations for enterprise computers. For more information, see Microsoft Support: Virus scanning recommendations for Enterprise computers that are running currently supported versions of Windows (KB822158).

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Deploy security exclusions for endpoints

Endpoint OS	Notes	Exclusion Type	Exclusion
Windows	Required only for the Microsoft InPlace Upgrade packages	Folder	`C:\Deploy\Tanium`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Folder	<*Tanium Client*>\python312

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	<*Tanium Client*>\python312\TPython.exe

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	`<Tanium Client>\TPython\TPython.bat`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Folder	<*Tanium Client*>\TPython312

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	<*Tanium Client*>\Tools\SoftwareManagement\7za.exe

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	<*Tanium Client*>\TaniumCX.exe

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	<*Tanium Client*>\extensions\TaniumSoftwareManager.dll

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	`<Tanium Client>\extensions\TaniumSoftwareManager.dll.sig`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	<*Tanium Client*>\Tools\SoftwareManagement\data\software-management.db
		File	<*Tanium Client*>\Tools\SoftwareManagement\data\software-management.db-wal
		File	<*Tanium Client*>\Tools\SoftwareManagement\data\software-management.db-shm
	When deployments run, installer files and other software package files are downloaded to subdirectories of this directory.	File	<*Tanium Client*>\Tools\SoftwareManagement\data\temp\tasks
		File	<*Tanium Client*>\extensions\TaniumPerformance.dll
		File	<*Tanium Client*>\extensions\TaniumPerformance.dll.sig
		Process	<*Tanium Client*>\Tools\PerformanceTSDB\TaniumTSDB.exe
		File	<*Tanium Client*>\extensions\TaniumTSDB.dll
		File	<*Tanium Client*>\extensions\TaniumTSDB.dll.sig
		File	<*Tanium Client*>\extensions\SupportCX.dll
		File	<*Tanium Client*>\extensions\SupportCX.dll.sig
		File	<*Tanium Client*>\extensions\TaniumConfig.dll
		File	<*Tanium Client*>\extensions\TaniumConfig.dll.sig
		File	<*Tanium Client*>\extensions\performance\data\performance.db
		File	<*Tanium Client*>\extensions\performance\data\performance.db-shm
		File	<*Tanium Client*>\extensions\performance\data\performance.db-wal

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
Linux		Folder	`<Tanium Client>/python312`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/python312/bin/pybin`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/python312/python`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/TPython/TPython`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Folder	`<Tanium Client>/TPython312`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/TaniumCX`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	`<Tanium Client>/Tools/SoftwareManagement/data/software-management.db`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	`<Tanium Client>/Tools/SoftwareManagement/data/software-management.db-wal`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	<*Tanium Client*>/Tools/SoftwareManagement/data/software-management.db-shm
	When deployments run, installer files and other software package files are downloaded to subdirectories of this directory.	File	<*Tanium Client*>/Tools/SoftwareManagement/data/temp/tasks
		File	<*Tanium Client*>/extensions/libTaniumSoftwareManager.so
		File	<*Tanium Client*>/extensions/libTaniumSoftwareManager.so.sig
		Process	<*Tanium Client*>/Tools/PerformanceTSDB/TaniumTSDB
		File	<*Tanium Client*>/extensions/libTaniumTSDB.so
		File	<*Tanium Client*>/extensions/libTaniumTSDB.so.sig
		File	<*Tanium Client*>/libTaniumClientExtensions.so
		File	<*Tanium Client*>/libTaniumClientExtensions.so.sig
		File	<*Tanium Client*>/extensions/libTaniumPerformance.so
		File	<*Tanium Client*>/extensions/libTaniumPerformance.so.sig
		File	<*Tanium Client*>/extensions/libSupportCX.so
		File	<*Tanium Client*>/extensions/libSupportCX.so.sig
		File	<*Tanium Client*>/extensions/libTaniumConfig.so
		File	<*Tanium Client*>/extensions/libTaniumConfig.so.sig
		File	<*Tanium Client*>/extensions/performance/data/performance.db
		File	<*Tanium Client*>/extensions/performance/data/performance.db-shm
		File	<*Tanium Client*>/extensions/performance/data/performance.db-wal

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
macOS	When deployments run, installer files and other software package files are downloaded to subdirectories of this directory.	File	`<Tanium Client>/Tools/SoftwareManagement/data/temp/tasks`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Folder	`<Tanium Client>/python312`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/python312/bin/pybin`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/python312/python`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	<*Tanium Client*>/TPython/TPython

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Folder	`<Tanium Client>/TPython312`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		Process	`<Tanium Client>/TaniumCX`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	<*Tanium Client*>/extensions/libTaniumSoftwareManager.dylib

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	*<Tanium Client>*/extensions/libTaniumSoftwareManager.dylib.sig

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	`<Tanium Client>/Tools/SoftwareManagement/data/software-management.db`

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Deploy security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Exclusion
		File	<*Tanium Client*>/Tools/SoftwareManagement/data/software-management.db-wal
		File	<*Tanium Client*>/Tools/SoftwareManagement/data/software-management.db-shm
	When deployments run, installer files and other software package files are downloaded to subdirectories of this directory.	File	<*Tanium Client*>/Tools/SoftwareManagement/data/temp/tasks
		Process	<*Tanium Client*>/Tools/PerformanceTSDB/TaniumTSDB
		File	<*Tanium Client*>/extensions/libTaniumTSDB.dylib
		File	<*Tanium Client*>/extensions/libTaniumTSDB.dylib.sig
		File	<*Tanium Client*>/libTaniumClientExtensions.dylib
		File	<*Tanium Client*>/libTaniumClientExtensions.dylib.sig
		File	<*Tanium Client*>/extensions/libTaniumPerformance.dylib
		File	<*Tanium Client*>/extensions/libTaniumPerformance.dylib.sig
		File	<*Tanium Client*>/extensions/libSupportCX.dylib
		File	<*Tanium Client*>/extensions/libSupportCX.dylib.sig
		File	<*Tanium Client*>/extensions/libTaniumConfig.dylib
		File	<*Tanium Client*>/extensions/libTaniumConfig.dylib.sig
		File	<*Tanium Client*>/extensions/performance/data/performance.db
		File	<*Tanium Client*>/extensions/performance/data/performance.db-shm
		File	<*Tanium Client*>/extensions/performance/data/performance.db-wal

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Third-party internet domains

If security software is deployed in the environment to monitor and block unknown URLs, your security administrator must allow the following internet domains on the Tanium Server for the Deploy service and to download binaries for the Predefined Package Gallery templates.



The Tanium Module Server requires access to URLs used when adding a remote file to a software package. For more information, see Create a software package on page 103.

Software Package	Internet Domain	Port
Adobe Acrobat DC[1]	download.adobe.com	443
Adobe Acrobat Reader DC	ardownload2.adobe.com	443
	download.adobe.com	
Adobe AIR	download.macromedia.com	443
Adobe Digital Editions	adedownload.adobe.com	443
Adobe Flash Player	fpdownload.macromedia.com	443
Adobe Shockwave EOL[2]	fpdownload.macromedia.com	443
AgileBits 1Password 7	c.1password.com	443
Apache Tomcat	dlcdn.apache.org	443
Apple iTunes	secure-appldnld.apple.com	443
Apple macOS Upgrade (Big Sur, Monterey, and Ventura)	• swscan.apple.com • swcdn.apple.com • swdist.apple.com	443
appmakes Typora	download.typora.io	443
Arco Software CutePDF Writer	www.cutepdf.com	443
Arduino IDE	downloads.arduino.cc	443
Atlassian Sourcetree	product-downloads.atlassian.com	443
AutoHotkey Foundation LLC AutoHotkey	autohotkey.com	443
Bare Bones BBEdit	s3.amazonaws.com/BBSW-download	443

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Software Package	Internet Domain	Port
BlueJeans Network, Inc BlueJeans	swdl.bluejeans.com	443
Box Inc. Box Drive	e3.boxcdn.net	443
Cisco Jabber	binaries.webex.com	443
Cisco Network Recording Player	akamai.webex.com	443
Cisco Webex Recorder and Player	welcome.webex.com	443
Citrix Workspace (formerly Citrix Receiver)	downloadplugins.citrix.com	443
Corel Corporation WinZip	download.winzip.com	443
DB Browser for SQLite Team DB Browser for SQLite	sqlitebrowser.org	443
Devolutions Inc. Remote Desktop Manager	cdn.devolutions.net	443
Discord, Inc Discord	dl.discordapp.net	443
Docker Desktop	desktop.docker.com	443
	docker.com/products/docker-desktop/	
Dropbox Desktop Client	clientupdates.dropboxstatic.com	443
Eclipse Adoptium Temurin JDK/JRE	• github.com • release-assets.githubusercontent.com	443
Evernote Corporation Evernote	cdn1.evernote.com	443
Extensis Universal Type Client	bin.extensis.com	443
Foxit Software Inc PDF Reader	• cdn01.foxitsoftware.com • *.foxitsoftware.com	443
George Nachman iTerm2	iterm2.com	443
Git Git	• github.com • release-assets.githubusercontent.com	443
GitHub Desktop	• github.com • desktop.githubusercontent.com	443
GN Audio Jabra Direct	jabraxpressonlineprdstor.blob.core.windows.net	443
Google Android Studio	*.gvt1.com	443

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Software Package	Internet Domain	Port
Google Chrome	dl.google.com	443
Google Drive File Stream	dl.google.com	443
Helios TextPad	textpad.com	443
Igor Pavlov 7-Zip	• github.com • release-assets.githubusercontent.com • 7-zip.org	443
iterate GmbH Cyberduck	update.cyberduck.io	443
JAM Software TreeSize Free	downloads.jam-software.de	443
JetBrains DataGrip	download.jetbrains.com	443
JetBrains GoLand	download-cdn.jetbrains.com	443
JetBrains PyCharm	download-cdn.jetbrains.com	443
Licecap Licecap	cockos.com/licecap/	443
KeePass KeePass 1 and 2	sourceforge.net	443
MacPaw The Unarchiver	dl.devmate.com	443
Many Tricks Moom	manytricks.com	443
Martin Prikryl WinSCP	sourceforge.net	443
Microsoft .NET Framework	download.visualstudio.microsoft.com	443
Microsoft Edge	msedge.sf.dl.delivery.mp.microsoft.com	443
	officecdn-microsoft-com.akamaized.net	
Microsoft Feature Update to Windows 10, version 21H2 (KB5003791)	catalog.s.download.windowsupdate.com	443
Microsoft Feature Update to Windows 11, version 23H2 (KB5027397)	catalog.sf.dl.delivery.mp.microsoft.com	443
Microsoft Office 2019	officecdn-microsoft-com.akamaized.net	443
Microsoft Office 2019 with Teams	officecdn-microsoft-com.akamaized.net	443
Microsoft Office Click-to-Run	download.microsoft.com	443
Microsoft Power BI Desktop	download.microsoft.com	443

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Software Package	Internet Domain	Port
Microsoft Skype Desktop Client	download.skype.com	443
Microsoft SQL Server Management Studio	aka.ms	443
Microsoft Teams	statics.teams.cdn.office.net	443
Microsoft Visual Studio Code	• code.visualstudio.com • az764295.vo.msecnd.net	443
Microsoft Windows 10 Upgrade[3]	content.tanium.com	443
Mozilla Firefox	releases.mozilla.org	443
	download-installer.cdn.mozilla.net	
Node.js Foundation NodeJS	nodejs.org	443
Notepad++ Team Notepad++	download.notepad-plus-plus.org	443
OBS Studio OBS Studio	cdn-fastly.obsproject.com	443
OpenVPN Technologies OpenVPN Connect and OpenVPN Connect 3	swupdate.openvpn.net	443
Oracle Java Runtime	javadl.oracle.com	443
	sdlc-esd.oracle.com	
Oracle MySQL Community	• dev.mysql.com • cdn.mysql.com	443
Oracle VirtualBox	download.virtualbox.org	443
pgAdmin pgAdmin 4	ftp.postgresql.org	443
Piriform Software CCleaner Standard	bits.avcdn.net	443
Postman Postman	postman.com	443
Royal Apps GmbH Royal TS	download.royalapplications.com	443
Running with Crayons Ltd Alfred 5	cachefly.alfredapp.com	443
Scooter Software Beyond Compare	scootersoftware.com	443
Simon Tatham PuTTY	the.earth.li	443
Slack Slack	downloads.slack-edge.com	443

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Software Package	Internet Domain	Port
Splunk Universal Forwarder	download.splunk.com	443
	docs.splunk.com	
Stamps.com, Inc Stamps.com	resources.stamps.com	443
Tableau Desktop, Tableau Reader	downloads.tableau.com	443
TechSmith Camtasia	download.techsmith.com	443
	support.techsmith.com	
TechSmith Snagit 2023 and 2024	download.techsmith.com	443
	support.techsmith.com	
The Wireshark developer community Wireshark	2.na.dl.wireshark.org	443
3T Software Labs Ltd Studio 3T	download.studio3t.com	443
TortoiseSVN TortoiseSVN	osdn.net	443
VideoLAN VLC Media Player	download.videolan.org	443
VMware Tools	packages.vmware.com	443
VMware Workstation Player[4]	download3.vmware.com	443
win.rar GmbH WinRAR 32-bit and WinRAR 64-bit	win-rar.com	443
Yubico Authenticator	developers.yubico.com	443
Zoom Outlook Plugin	cdn.zoom.us	443
Zoom Rooms NOTE On macOS, the MDM profile needs to allow access to camera, microphone, and screen sharing to avoid permission prompts on the endpoint.	d11yldzmag5yn.cloudfront.net	443
	cdn.zoom.us	

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Software Package	Internet Domain	Port
Zoom Zoom	d11yldzmag5yn.cloudfront.net	443
	cdn.zoom.us	

[1] Update operation only.

[2] Remove operation only.

[3] Windows 10 Operating System media is not included in this package template. For more information, see Upgrading Windows on page 192.

[4] Update and Remove operations only.

User role requirements

Predefined roles grant the following permissions, which are required to use Deploy functionality:

- Deploy solution permissions on page 72
- Provided Deploy administration and platform content permissions on page 88: The solution permissions automatically provide some of these permissions.

To review a summary of the predefined roles, see Set up Deploy users on page 95.

Some Deploy solution permissions provide permissions that are associated with other solutions. Furthermore, all the platform content permissions and some solution permissions apply to content sets that might contain content for other solutions in addition to Deploy. If you create custom roles for Deploy users, be sure to assign all the solution permissions and content set permissions that are required for Deploy functionality. If you are not sure which permissions are required for a custom role, view the permissions of the predefined roles. For more information, see the following sections of the Tanium Console User Guide:

- RBAC overview (provides an overview of roles, permissions, and content sets)
- Provided role permissions
- View effective role permissions
- Configure a custom role

NOTE

Do not assign the **Deploy Service Account** and **Deploy Service Account - All Content Sets** roles to users. These roles are for internal purposes only.

IMPORTANT

Some legacy roles and permissions might appear in the workbench and must not be used. Do not use the **Deploy Package Administrator** or **Deploy User** roles or the **Deploy Deployments**, **Deploy Maintenance Windows**, **Deploy Module**, and **Deploy Profiles** permissions. Use the roles and permissions included in this section.

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Deploy solution permissions

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy INITIALIZE: Perform Deploy setup activities SHOW: View the Deploy workbench	✓ INITIALIZE SHOW	✗	✓ INITIALIZE SHOW	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW
Deploy API EXECUTE: Perform Deploy operations using the API	✓ EXECUTE	✗	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Automatic Deployment READ: View automatic deployments WRITE: Create automatic deployments	✓ EXECUTE	✗	✓[2] READ WRITE	✓[2] READ	✓[2] READ WRITE	✓[2] READ	✗	✗	✗	✓[2] READ

Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Automatic Deployment Configuration READ: View automatic deployment configurations WRITE: Create automatic deployment configurations DELETE: Delete automatic deployment configurations	✓ EXECUTE	✗	✓[2] READ WRITE DELETE	✓[2] READ WRITE DELETE	✓[2] READ	✓[2] READ	✗	✗	✗	✓[2] READ WRITE DELETE

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Deployment READ: View deployments and deployment templates WRITE: Create deployments, create deployment templates, and perform operations such as stopping and cloning deployments[3] DELETE: Delete deployments and deployment templat	✓[2] READ WRITE DELETE	✗	✓[2] READ WRITE DELETE	✓[2] READ	✓[2] READ WRITE DELETE	✓[2] READ	✗	✗	✗	✓[2] READ WRITE DELETE

Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Deployment Plan READ: Viewing deployment plans WRITE: Creating deployment plans DELETE: Deleting deployment plans	✓[2] READ WRITE DELETE	✗	✓[2] WRITE	✓[2] WRITE	✗	✓[2] READ	✗	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Deployment Preview READ: View the endpoint count of a ring that a deployment targets.	✗	✗	✗	✓[2] READ	✓[2] READ	✗	✗	✗	✗	✗
Deploy Endpoint Configuration APPROVE: Approve Deploy items for Endpoint Configuration	✗	✓ APPROVE	✗	✗	✗	✗	✗	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Gallery IMPORT: Import packages into software package gallery READ: View packages in software package gallery WRITE: Create software package gallery settings	✓[2] IMPORT READ WRITE	✗	✓[2] IMPORT READ WRITE	✓[2] READ WRITE	✗	✓[2] READ	✗	✗	✓[2] IMPORT READ WRITE	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Maintenance Window READ: View maintenance windows WRITE: Create maintenance windows DELETE: Delete maintenance windows	✓[2] READ WRITE DELETE	✗	✓[2] READ WRITE DELETE	✗	✗	✓[2] READ	✗	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Operator Settings WRITE: Configure Deploy settings	✓ WRITE	✗	✓ WRITE	✗	✗	✗	✗	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator 1	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Profile READ: View End-User Self Service profiles WRITE: Create End-User Self Service profiles[4] DELETE: Delete End-User Self Service profiles	✓[2] READ WRITE DELETE	✗	✓[2] READ WRITE DELETE	✗	✓ READ	✓[2] READ	✓[2] READ WRITE DELETE	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Read End User NOTIFICATION: View the Deploy module	✓ NOTIFICATION	✗	✗	✗	✗	✗	✗	✗	✗	✗
Deploy Read Platform PRIVILEGES: View the Deploy module	✓ PRIVILEGES	✗	✗	✗	✗	✗	✗	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Settings READ: View Deploy settings WRITE: Create Deploy settings	✓ READ WRITE[12]	✗	✓ READ	✗	✗	✗	✗	✗	✗	✗
Deploy Settings Read Operating SYSTEMS: View operating systems in Deploy	✓ SYSTEMS	✗	✓ SYSTEMS	✓ SYSTEMS	✓ SYSTEMS	✓ SYSTEMS	✓ SYSTEMS	✓ SYSTEMS	✓ SYSTEMS	✓ SYSTEMS

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Settings Write Operating SYSTEMS: Create operating systems in Deploy	✓ SYSTEMS	✗	✓ SYSTEMS	✗	✗	✗	✗	✗	✗	✗

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Software Package READ: View software packages WRITE: Create software packages[5] EXECUTE: Provides execute access to software packages[6] DELETE: Delete software packages	✓[2] READ WRITE EXECUTE DELETE	✗	✓[2] READ WRITE EXECUTE DELETE	✓[2] READ EXECUTE	✓[2] READ EXECUTE	✓[2] READ	✓[2] READ EXECUTE	✓[2] READ WRITE EXECUTE DELETE	✓[2] READ EXECUTE	✓[2] READ EXECUTE

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Deploy solution permissions (continued)

Permission	Deploy Administrator[1,8]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Deploy Software Package Bundle READ: View software package bundles WRITE: Create software package bundles[7] DELETE: Delete software package bundles	✓[2] READ WRITE DELETE	✗	✓[2] READ WRITE DELETE	✗	✗	✓[2] READ	✓[2] READ	✓[2] READ WRITE DELETE	✗	✓[2] READ

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Provided Deploy administration and platform content permissions

Permission	Permission Type	Deploy Administrator[1]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Action Group	Administration	READ		READ	READ	READ	READ	READ	READ	READ	READ
Computer Group	Administration	READ		READ	READ	READ	READ				
Token - Use	Administration	READ		SPECIAL	SPECIAL	SPECIAL	SPECIAL				SPECIAL
User Group	Administration	READ		READ			READ				
Action	Platform Content	READ		READ	READ	READ	READ	READ	READ	READ	READ
Deployment Plan	Platform Content	READ		READ WRITE	READ WRITE	READ	READ				READ
Filter Group	Platform Content	READ		READ	READ	READ	READ	READ	READ	READ	READ
Package	Platform Content	READ		READ	READ	READ	READ	READ	READ	READ	READ

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Provided Deploy administration and platform content permissions (continued)

Permission	Permission Type	Deploy Administrator[1]	Deploy Endpoint Configuration Approver[1]	Deploy Operator[1]	Deploy Automatic Deployment Configuration Operator[1]	Deploy Automatic Deployment Operator[1]	Deploy Read Only User[1]	Deploy Self Service Administrator[1]	Deploy Software Package Administrator[1]	Deploy Software Package Gallery Administrator[1]	Deploy Software Package Operator[1]
Plugin	Platform Content	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE
Progression Criteria Set	Platform Content	✓ READ	✗	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✗	✗	✗	✓ READ
Ring Set	Platform Content	✓ READ	✗	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✗	✗	✗	✓ READ
Saved Question	Platform Content	✓ READ	✗	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ
Sensor	Platform Content	✓ READ	✗	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ	✓ READ

[1] The permissions for this role provide solution permissions for other solutions. To view the provided permissions, see Tanium Console User Guide: View effective role permissions.

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Installing Deploy

Use the **Solutions** page to install Deploy and choose either automatic or manual configuration:

- **Automatic configuration with default settings**: Deploy is installed with any required dependencies and other selected products. After installation, the Tanium Server automatically configures the recommended default settings. This option is the best practice for most deployments. For more information about the automatic configuration for Deploy, see Import Deploy with default settings on page 90.
- **Manual configuration with custom settings** After installing Deploy, you must manually configure required settings. Select this option only if Deploy requires settings that differ from the recommended default settings. For more information, see Import Deploy with custom settings on page 91.

Before you begin

- Read the release notes.
- Review the Deploy requirements on page 29.
- If you are upgrading from a previous version, see Upgrade Deploy on page 92.

Import Deploy with default settings

You can set the Deploy action group to target the **No Computers** filter group by enabling restricted targeting before importing Deploy. This option enables you to control tools deployment through scheduled actions that are created during the import and that target the Tanium Deploy action group. For example, you might want to test tools on a subset of endpoints before deploying the tools to all endpoints. In this case, you can manually deploy the tools to an action group that you configured to target only the subset. To configure an action group, see Tanium Console User Guide: Managing action groups. To enable or disable restricted targeting, see Tanium Console User Guide: Tools deployment and restricted targeting.

When you import Deploy with automatic configuration, the following default settings are configured:

Setting	Default value
Action group	• Restricted targeting disabled (default): `All Computers` computer group • Restricted targeting enabled: `No Computers` computer group
Deploy deployment templates	The following deployment templates are created: • **[Standard Deployment]** - default • **[Deployment with Reboot]** • **[Deployment with Pre-Notification]**
Deploy maintenance windows	An `Always On` maintenance window is created, and enforced against the `All Computers` computer group.

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Setting	Default value
Deploy configurations	For action locked machines, only applicability scanning is enabled, so that deployments cannot run on action locked machines.
Deploy software packages	The following Predefined Package Gallery packages are automatically imported: • Adobe Digital Editions • Adobe Acrobat Reader DC (en-us) • Adobe Acrobat Reader DC (en-us) (64-bit) • Adobe Acrobat Reader DC (MUI) • Adobe Acrobat Reader DC (MUI) (64-bit) • Microsoft Power BI Desktop (x64) • Microsoft Power BI Desktop • Microsoft Teams (x64) • Microsoft Teams (x86) • Microsoft Visual Studio Code (x64 en-us) • Microsoft Visual Studio Code (x86 en-us) • Mozilla Firefox (x64 en-US) • Mozilla Firefox (x86 en-US) • VideoLAN VLC media player (32-bit) • VideoLAN VLC media player (64-bit) • Zoom Zoom • Zoom Zoom (64-bit)

To import Deploy and configure default settings, be sure to select the **Apply All Tanium recommended configurations** checkbox while performing the steps in Tanium Console User Guide: Import or update specific solutions. After the import, verify that the correct version is installed: see Verify Deploy version on page 92.

Import Deploy with custom settings

To import Deploy without automatically configuring default settings, be sure to clear the **Apply All Tanium recommended configurations** checkbox while performing the steps in Tanium Console User Guide: Import or update specific solutions. After the import, verify that the correct version is installed: see Verify Deploy version on page 92.

To organize computer groups, see Organize computer groups on page 95.

To configure the Deploy action group, see Configuring Deploy on page 93.

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Manage solution dependencies

Other Tanium solutions are required for Deploy to function (required dependencies) or for specific Deploy features to work (feature-specific dependencies). For more information, see Solution dependencies on page 29.

Upgrade Deploy

For the steps to upgrade Deploy, see Tanium Console User Guide: Managing Tanium solutions. After the upgrade, verify that the correct version is installed: see Verify Deploy version on page 92.

Verify Deploy version

After you import or upgrade Deploy, verify that the correct version is installed:

1. Refresh your browser.
2. From the Main menu, go to **Modules > Deploy** to open the Deploy **Overview** page.
3. To show version information, click Info .

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Configuring Deploy

If you did not install Deploy with the **Apply All Tanium recommended configurations** option, you must enable and configure certain features.

Configure advanced settings

You can configure the Tanium platform for optimal delivery of larger payloads, which are typically associated with downloading and installing software.

1. From the Main menu, go to **Administration > Configuration > Settings > Advanced Settings**.
2. To increase the client cache size, click **Add Setting**, provide the following information, and click **Save**.
   Setting Type: `Client`
   Platform Setting Name: `ClientCacheLimitInMB`
   Value Type: `Numeric`
   Value : `2048`



Changes to platform settings can take up to five hours to propagate to clients.

Install and configure Tanium End-User Notifications

With the Tanium End-User Notifications solution, you can create a notification message with your deployment to Windows and macOS endpoints to notify the user that the system is about to begin a deployment, has completed a deployment, and if postponements are enabled, to give the user the option to postpone the deployment or restart now.

For more information, see Tanium End-User Notifications User Guide: End-User Notifications overview.

Install and configure Tanium Endpoint Configuration

Manage solution configurations with Tanium Endpoint Configuration

Tanium Endpoint Configuration delivers configuration information and required tools for Tanium Solutions to endpoints. Endpoint Configuration consolidates the configuration actions that traditionally accompany additional Tanium functionality and eliminates the potential for timing errors that occur between when a solution configuration is made and the time that configuration reaches an endpoint. Managing configuration in this way greatly reduces the time to install, configure, and use Tanium functionality, and improves the flexibility to target specific configurations to groups of endpoints.

Endpoint tools are bundled together in a versioned toolset. Each toolset contains a specific version of each tool. The Endpoint Configuration Toolset Solution provides upgrades to the toolset, and it imports upgraded versions of the entire toolset as needed by upgraded or newly installed solutions.

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IMPORTANT

When you upgrade Deploy, the change management feature enables you to perform a staged rollout of the endpoint tools associated with the new version of Deploy. Deploy remains compatible with earlier versions of the endpoint tools and so continues to function with endpoints in rings that have not yet received the latest tools. However, any functionality added in the upgrade of Deploy might not be available on these endpoints until they receive the upgraded tools.

In some cases, multiple solutions install the same endpoint tool, but upgraded endpoint tools remain compatible with all associated solutions. For example, both Tanium™ Threat Response and Tanium™ Reveal install and use index-cx. When you upgrade Threat Response, it might install version *x*.6.*yyyy* of index-cx, superseding version *x*.5.*zzzz* that Reveal previously installed. The index-cx upgrade from Threat Response does not affect the Index-related functionality of Reveal on the upgraded endpoints. For more information about the change management feature, see Tanium Endpoint Configuration User Guide: Managing endpoint tool upgrade rollouts.

NOTE

For information about how to install Endpoint Configuration, see Tanium Endpoint Configuration User Guide: Installing Endpoint Configuration.

Optionally, you can use Endpoint Configuration to require approval of configuration changes. When configuration approvals are enabled, Endpoint Configuration does not deploy a configuration change to endpoints until a user with approval permission approves the change. For information about the roles and permissions that are required to approve configuration changes for Deploy, see User role requirements on page 71. For more information about how to enable and use configuration approvals in Endpoint Configuration, see Tanium Endpoint Configuration User Guide: Managing approvals.

IMPORTANT

For solutions to perform configuration changes or tool deployment through Endpoint Configuration on endpoints with action locks turned on, you must enable the **Manifest Package Ignore Action Lock** and **Deploy Client Configuration and Support Package Ignore Action Lock** settings. To access these settings, from the Endpoint Configuration **Overview** page, click Settings and select **Global**. For more information about action locks, see Tanium Console User Guide: Managing action locks.

For more information about Endpoint Configuration, see Tanium Endpoint Configuration User Guide.

If you enabled configuration approvals, the following configuration changes must be approved in Endpoint Configuration before they deploy to endpoints:

- Creating, stopping, or reissuing deployments
- Adding or removing maintenance window enforcements
- Creating, editing, or removing Self Service profiles
- User-initiated actions, such as initializing endpoints, distributing the software package catalog, updating Deploy Settings

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Configure Deploy

Configure the Deploy action group

Importing the Deploy module automatically creates an action group to target specific endpoints. If you did not use automatic configuration or you enabled restricted targeting when you imported Deploy, the action group targets **No Computers**.

If you used automatic configuration and restricted targeting was disabled when you imported Deploy, configuring the Deploy action group is optional.

Select the computer groups to include in the Deploy action group.



Clear the selection for **No Computers** and make sure that all operating systems that are supported by Deploy are included in the Deploy action group.

1. From the Main menu, go to **Administration > Actions > Action Groups**.
2. Click **Tanium Deploy**.
3. Select the computer groups that you want to include in the action group and click **Save**.
   If you select multiple computer groups, choose an operator (AND or OR) to combine the groups.

Organize computer groups

One way to deploy packages or bundles is by computer group. Create relevant computer groups to organize your endpoints. Some options include:

- Endpoint type, such as servers or employee workstations
- Endpoint location, such as by country or time zone
- Endpoint priority, such as business-critical machines

Set up Deploy users

You can use the following set of predefined user roles to set up Deploy users.

To review specific permissions for each role, see User role requirements on page 71.



On installation, Deploy creates a **Deploy** user to automatically manage the Deploy service account. Do not edit or delete the **Deploy** user.

For more information about assigning user roles, see Tanium Core Platform User Guide: Manage role assignments for a user.

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Deploy Administrator

Assign the **Deploy Administrator** role to users who manage the configuration and deployment of Deploy functionality to endpoints.
This role can perform the following tasks:

- Manage all Deploy settings
- Manage deployments, maintenance windows, Self Service profiles, software packages, and software bundles

Deploy Endpoint Configuration Approver

Assign the **Deploy Endpoint Configuration Approver** role to a user who approves or rejects Deploy configuration items in Tanium Endpoint Configuration.
This role approves, rejects, or dismisses changes that target endpoints where Deploy is installed.

Deploy Operator

Assign the **Deploy Operator** role to users who manage the configuration and deployment of Deploy functionality to endpoints.
This role can perform the following tasks:

- Create, edit, import, or delete software packages and software bundles
- Manage deployments, maintenance windows, and Self Service profiles

Deploy Automatic Deployment Configuration Operator

Assign the **Deploy Automatic Deployment Configuration Operator** role to users who manage the configuration of automatic deployments.
This role can perform the following tasks:

- Create, edit, or delete automatic deployment configurations
- View automatic deployments
- Create and delete ring deployment plans
- Import and view Predefined Package Gallery packages

Deploy Automatic Deployment Operator

Assign the **Deploy Automatic Deployment Operator** role to users who manage automatic deployments.
This role can perform the following tasks:

- View automatic deployments
- Override rule triggers to start automatic deployments
- View, create, and delete manual deployments
- View ring deployment plans

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Deploy Read Only User

Assign the **Deploy Read Only User** role to users who need visibility into Deploy data.
This role can view all configurations, graphs, and reporting data in Deploy.

Deploy Self-Service Administrator

Assign the **Deploy Self-Service Administrator** role to users who manage End-User Self Service profiles.
This role can perform the following tasks:

- Create, edit, and delete Self Service profiles
- View software packages and software package bundles

Deploy Software Package Administrator

Assign the **Deploy Software Package Administrator** role to users who create software packages and bundles.
This role can view, create, and delete software packages and bundles. This role cannot create, edit, or delete deployments.

Deploy Software Package Gallery Administrator

Assign the **Deploy Software Package Gallery Administrator** role to users who manage the package gallery.
This role can perform the following tasks:

- View, edit, and import software packages into package gallery
- View software packages

Deploy Software Package Operator

Assign the **Deploy Software Package Operator** role to users who deploy software packages to endpoints.
This role can perform the following tasks:

- Create, edit, and delete deployments
- View software packages and software package bundles

This role cannot create, edit, or delete software packages or software package bundles.



Do not assign the **Deploy Service Account** and **Deploy Service Account - All Content Sets** roles to users. These roles are for internal purposes only.

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Configure module settings

1. From the Main menu, go to **Modules > Deploy > Overview**. Click Settings and then click **Configuration Settings** if needed.
2. In the **Endpoint Process Settings** section, configure the following options:

   Scan Interval

   Specify how frequently in hours that endpoints complete a full catalog scan. The default value is 24 hours but can be set lower to improve responsiveness to changes on endpoints, such as software that is installed, updated, or removed by programs other than Deploy.

   File Download Retry Limit

   Specify how many times Deploy will attempt to download a file that has failed to download. Setting this option to a higher number can help work around temporary issues, such as bad network connectivity.

   File Download Retry Delay

   Specify the amount of time in seconds, minutes, or hours before the endpoint tries to download a file that has failed to download. Setting this option to a relatively low number, such as 1-5 minutes, can help work around temporary issues without causing an excessive number of download requests.

   File Download Timeout

   Specify the amount of time in hours or days before a download attempt will time out. Setting this option to at least 24 hours helps ensure that large downloads on bandwidth-constrained endpoints have time to complete.

   When Action Lock Enabled

   This option specifies how Deploy behaves on action-locked endpoints. For best results, select either **Applicability Scanning Only** or **Ignore Action Lock** to ensure the accuracy of workbench data.

   > NOTE
   >
   > The Deploy action lock setting does not override the Endpoint Configuration action lock setting. If you do not select **Manifest package ignore action lock** in Endpoint Configuration settings, then action-locked endpoints do not receive changes to Deploy configurations. For more information, see Tanium Endpoint Configuration User Guide: Reference: Settings and Tanium Console User Guide: Managing action locks.

   Enable Debug Logging

   Select this option to set the Deploy logs on all endpoints to be at the most verbose level. You should use this setting only with guidance from Tanium Support.

   Max Log Size (in MBs)

   Specify the maximum size of logs (in MBs) on an endpoint. Specify an option that allows readability and sufficient logging on an endpoint without utilizing too much disk space.

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Number of Logs to Keep

Specify the number of log files to keep on an endpoint. Specify an option that allows readability and sufficient logging on an endpoint without utilizing too much disk space.



Deploy compresses all archive logs, which allows for increased log retention. However, this compression is not available on operating systems based on Linux Kernel 2.6 (RHEL 6, CentOS 6, Oracle Linux 6, and openSUSE 11). Use the `Deploy - Set Logging Options [Linux]` Tanium package to configure different settings on these operating systems, if more retention is needed.



Use the `Deploy - Set Logging Options` Tanium packages to configure log verbosity and retention settings on specific endpoints. Settings configured by these packages override the Deploy log settings on the **Overview** page.

3. In the **Deployment Retry Settings** section, configure the following options:

   Retry Limit

   Specify how many times Deploy will retry a failed deployment on an endpoint. When Deploy reaches this limit, it will not retry the failed deployment until the **Reset Frequency** time has been reached.

   Reset Frequency (in hours)

   Specify the amount of time in hours before Deploy will attempt to retry failed downloads after the **Retry Limit** has been reached. Setting this option to a value less than 24 hours lets failed deployments run multiple times in the same day and can help work around temporary issues.

4. In the **Inactive Deployment Removal Settings** section, configure the following options:

   Enable Inactive Deployments Removal

   Select this option to enable Deploy to delete inactive deployments with ended or stopped dates that are older than the specified interval. Enabling this option improves the performance of the Deploy workbench.

   Inactive Deployment Removal Frequency

   Specify the amount of time at which Deploy removes inactive deployments with ended or stopped dates that are older than the interval. The minimum is 1 month. The maximum and default is 6 months.

5. In the **General Settings** section, configure the following options:

   Client API Nonce Roundoff (in minutes)

   This setting enables a timestamp-based nonce for all Tanium Client API calls to avoid reusing previously cached URLs. You should use this setting only with guidance from Tanium Support.

   UNC Path Host Allowed List (comma separated)

   Specify the hostnames and IP addresses, separated by commas, for which the system allows access via UNC paths. The asterisk (*) character is a wildcard that matches any characters or none in a target hostname or IP address.

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Software Package Gallery

For air-gapped environments, select **Enable Alternate Software Package Gallery Location** and then specify a location in the **Alternate Software Package Gallery Location** field. For more information, see Configure an alternate location for the Predefined Package Gallery on page 100.

Auto-Distribute Catalog

If you want the software package catalog to be automatically distributed, you must select **Enable Auto-Distribute Catalog**. New installations of Deploy automatically distribute the software package catalog to endpoints when changes are detected. If you do not enable this option, you are prompted to distribute the software package catalog each time an update is detected, and must click **Distribute Catalog**.

6. Click **Save**.

Configure an alternate location for the Predefined Package Gallery

The Predefined Package Gallery in Tanium Deploy provides a collection of common software packages that are hosted at `content.tanium.com`. These packages are preconfigured and ready to deploy to endpoints. By default, the Tanium Server in an air-gapped environment cannot directly access Deploy Gallery package definitions. To address this scenario, you can configure an alternative Gallery location so that a Tanium Server in an air-gapped environment can still download the Gallery.

To ensure the Tanium Server can download the Gallery, use a computer that is connected to the internet to download the software package definitions and then place the definitions in a location defined on your local network that is accessible to your Tanium Server.

For more information about using the Deploy Gallery, see Import a software package from the Predefined Package Gallery on page 113.

Stage the Predefined Package Gallery in a location accessible to the Tanium Server

Download the Package Gallery ZIP file and place it where it can be accessed by the Tanium Server.



- The network location that you specify must be accessible by the Tanium Server. To use a UNC path or a credential-protected URL, configure the settings based on the Tanium Server version and operating system.
  - **Tanium Server 7.5.3.3503 and later:** You must configure a downloads authentication entry for the UNC path or credential-protected URL. For information about configuring a downloads authentication entry, see Tanium Console User Guide: Managing remote authentication.
  - **(TanOS) Tanium Server earlier than 7.5.3.3503:** You must configure credentials in the TanOS Tanium Operations menu. For information, see Tanium Appliance User Guide: Add an authentication user for TDownloader

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IMPORTANT

- **(Windows) Tanium Server earlier than 7.5.3.3503:** You must configure the Tanium Server service account to run as a Windows user with sufficient permissions. For information, see Tanium Appliance User Guide: Add an authentication user for TDownloader
- Tanium does not support hidden or administrative shares.

The Package Gallery ZIP file contains JSON content for each software package in the Gallery. In environments that are not air-gapped, this JSON content is downloaded automatically from `content.tanium.com`. Because air-gapped environments do not have access to the internet, the ZIP file must be staged in a location that the Tanium Server can access.

Configure the alternate Gallery location

1. From the Main menu, go to **Modules > Deploy > Overview**. Click Settings and then click **Configuration Settings**.
2. In the **General Settings** section, select **Enable Alternate Software Package Gallery Location** and then specify a location in the **Alternate Software Package Gallery Location** field.
   For example, a UNC location might look like this: `\\myserver.example.local\files\deploy-software-package-gallery.zip`.
3. Click **Save** and then confirm your changes.
4. On the Deploy **Overview** page, click Help, and then click **Support > Initialize Endpoints**.
5. In the **Support** tab, click **View Job Status** and confirm that **Sync Software Gallery** appears with a green check mark.
6. Close the window and let the Package Gallery synchronize to Deploy. This process typically takes 5-10 minutes.

Add files to a software package

When you import a software package from the Gallery, the Tanium Server attempts to download the files associated with that software package. However, air-gapped Tanium Servers cannot download the files, which causes a `Sync Software Package` warning to appear. For information about fixing the error so that the imported software package can be used by the air-gapped Tanium Server, see Deploy cannot access the origin of a software package file on page 173.

Create a custom operating system

To make a specific operating system version available for use in the **Restrict Operating System** menu for software packages, you can create a new operating system in the Deploy settings.

1. From the Main menu, go to **Modules > Deploy > Overview**. Click Settings and then click **Operating Systems**.
2. Click **Add Operating System**.
3. Select the OS platform and specify a name.
4. In the **Version** field, specify the operating system version. To create a range of versions, use the pattern `<version> to <version>`. For example, `10.0.26100 to 10.0.27000`.

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5. Configure the following settings as needed:
    - (Windows) In the **Type** dropdown list, specify whether the OS is for servers or workstations.
    - (Linux) In the **Distribution** dropdown list, specify the type of Linux distribution for the OS.
6. Click **OK**.

Initialize Deploy endpoints

Deploy installs a set of tools on each endpoint that you have targeted. Initializing the endpoints starts the Deploy service and starts the Deploy process on every endpoint where it is not running.

1. From the Main menu, go to **Modules > Deploy > Overview**. Click Help, and then click **Support** if needed.
2. Click **Initialize Endpoints** and confirm your action.



After deploying the tools for the first time, endpoints can take up to four hours to display status.

Select a language

Select one of the supported languages for the Deploy workbench and Deploy user guide, as described in Tanium Console User Guide: Reference: Language support.

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Managing software

Use software *packages* to install, update, or remove software on a set of target computers. Use software *bundles* to specify a sequenced list of software packages to deploy. Deploy also provides a gallery of common software packages in the **Predefined Package Gallery**.

The **Predefined Package Gallery** page lists predefined software package templates that you can import. Use the Predefined Package Gallery to import third-party software package templates to install, update, or remove software on a set of target computers.



Tanium does not repackage or redistribute third-party software installers. The Tanium software package templates provide you with the remote file paths to directly download the software installer from the third-party vendor. You must review any applicable third-party End User Licensing Agreement (EULA) before you import third-party software to the Tanium software package catalog. Tanium is not responsible for accepting, nor does it accept, any EULAs from third-party software vendors on your behalf.

Create a software package

1. From the Main menu, go to **Modules > Deploy > Software** and then click **Create Software Package**.
2. In the **Package Files** section, click **Add Package Files** to add a local or remote file or remote folder.

   Add the files that are needed to install an application on a managed device. The files can include, but are not limited to, MSI or EXE installers, resource files or folders, package files, configuration files, custom scripts, custom registry files, or license keys.

   You can select multiple files at once, but you cannot upload entire folder structures as a local file. To use an entire folder, first compress the folder contents into a compressed archive file (such as a ZIP file), then add the compressed file to the software package. For information about using Deploy to extract a file, see File/Folder actions on page 108.

   If you select a remote file or remote folder, ensure that the Tanium Module Server can access the remote location and has sufficient permissions. If you are using Tanium Core Platform 7.5.2.3503 or later, see Tanium Console User Guide: Manage remote systems. As an alternative or if you are using an earlier version of Tanium Core Platform, complete the following instructions based on your server type.

   - Windows Module Servers: Use a domain-joined account for seamless access to remote shares.
   - Appliance Module Servers: Add an authentication user. For more information, see Tanium Appliance User Guide: Add an authentication user for TDownloader.

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3. In the **Package Details** section, provide the necessary details.

   a. Enter the **Product Vendor**, **Product Name**, and **Product Version**.

   - If the package files include one or more Windows Installer packages (MSI or MSIX file format), you can click **Inspect MSI to Populate Fields** or **Inspect MSIX to Populate Fields** to extract information from the `.msi` or `.msix` file and verify the pre-populated information. Using this feature does not overwrite any information that you previously entered manually.
   - The account that is set for the Deploy service account must have access to execute PowerShell on the Tanium Module Server.

   b. Select the **OS Platform** for which the package applies.

   c. Select a **Content Set**.

   Because of the complexities of managing permissions with multiple users, you cannot move a software package from one content set to another after the initial assignment.

   d. (Optional) Enter details to display in the Self Service Client on the endpoint.

   Self Service Display Name

   Enter a name to display in the Catalog tab.

   Package Icon

   Upload an icon to display in the Catalog tab.

   Additional Details

   Enter a URL to display in the package tooltip. Users can click the URL to visit the provided destination.

   Description

   Enter an extended description to display in the package tooltip.

4. In the **System Requirements** section, provide the minimum system requirements for the software package to run on the endpoint.

   Disk Space Required

   Configure the minimum available system disk space required. For best results, specify at least three times the total size of the package files.

   Minimum Ram

   Configure the minimum physical RAM required.

   Architecture

   Configure the allowed architectures for the software package based on the platform. On endpoints where the architecture does not match, the software package will show a status of `Not Applicable`.

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(Windows) Select **x86** for software that cannot be installed on 64-bit Windows systems. Select **x64** for software that can only be installed on x64 Windows systems. Select **ARM64** for software that can be installed on ARM-based Windows systems. Choose **Select All** for x86 software that can be installed on x64 and ARM-based Windows systems.



Most x86 software can be installed on all x64 and ARM-based Windows and most x64 software can be installed on ARM-based Windows. However, there might be situations where you do not want to allow cross-architecture installations. Depending on the software behavior, you might want to choose only the matching architecture for the installer to force that version to install even if other architectures can be installed.

(macOS) Select **x64** for software that should only be installed on Intel-based Mac endpoints. Select **ARM64** for software that has only a native ARM64 binary. Select **Select All** for software that has a universal binary, does not install a binary, or can run using Rosetta.

(Linux) Select **x86**, **x64**, or **ARM64** based on the platform for which the software is compiled. Select any combination of the three options for software packages that do not install compiled code or that do so in a platform-agnostic fashion.

Restrict Operating Systems

Click **Restrict Operating Systems** and then select the supported operating systems on which to allow Deploy to install or update the software package. The software package will still be considered installed if the **Install Verification** criteria are met on non-restricted operating systems. Specific operating systems can be targeted for deployments and Self Service profiles without selecting restricted operating systems in the software package.



Specify an operating system only if the software package should never be installed or updated on other operating systems. If you need an operating system that is not available, you can add one in Deploy settings. For more information, see Create a custom operating system on page 101.

5. In the **Deploy Operations** section, define the operations and commands to run.

If you chose to inspect the MSI or MSIX, some operations are already enabled and information is pre-populated. You can verify or update any of the pre-populated information.

   a. Select which operations you want to enable: **Install**, **Update**, or **Remove**.

   b. For each operation, select the **Require Source Files** option if any of the files in the **Package Files** section are required to perform the operation. If you do not select this option, the package files are not downloaded.

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c. Click **Add Command** to add conditional commands for any of the operations that you enabled.

Check for Running Processes

Specify a process name, for example, `Chrome.exe`, and select either **Terminate process** or **Pause until process is no longer running**. If you choose to pause the process, the wait time is five minutes.

Run Command

Specify an install, update, or remove command to run and choose whether to run the command as the **System** or the **Active User** on Windows endpoints. If any part of the path in a command contains a space, use double quotation marks, even if you use variables. For best practices and examples about using the Run command, see (Windows) Guidance for creating software packages to manage user-installed software on page 110.



Do not add a Run command that causes a system restart. With this type of command, Deploy malfunctions and endpoints can reboot multiple times without warning. To deploy a software package that needs to restart, use the restart settings in deployments and Self Service profiles. For more information, see Manually deploy a software package or bundle on page 127 and Create a Self Service profile on page 159.



A command fails during deployment if it returns an exit code other than the codes defined in the Success Codes field. For more information, see CommandError: Software package <id> command <command-name> exited with code: <exit-code> on page 181.

File/Folder

Extract a compressed file, copy a file or folder, create a folder, delete a file or folder, or rename a file or folder. For more information, see File/Folder actions on page 108.

Tanium Client File Request

Specify an HTTP(S) address or a UNC file path and file name. Any URI that you enter must be allowed on the Tanium Server. For more information, see Tanium Platform User Guide: Managing allowed URLs.

- To use any of these actions with a file attached to this software package, enter the file name in the source field.
- (Linux) To install a file attached to the software package using the **apt** command, specify an absolute or relative path and escape the slash, for example `apt --yes install .\/zoom_amd64.deb`. To install a file attached to the software package without specifying a path, use the **dpkg** command.
- To extract or copy a file or folder to the working directory used for running this software package, enter a period in the destination field.

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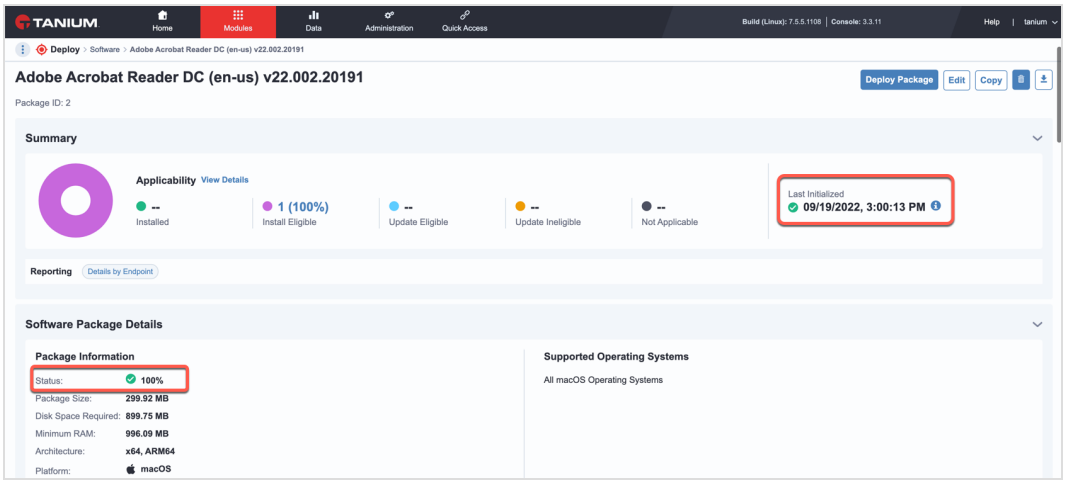
TIP

- You can use a Deploy variable such as **||PROGRAMFILES||** or a Windows environment variable such as **%programdata%**.

6. In the **Installation Requirements**, **Update Detection**, and **Install Verification** sections, configure applicability rules that determine whether this software package is install eligible, update eligible, or installed, respectively.
    - For more information about the attributes and operators, see Reference: Applicability rule syntax on page 246.
    - For more information about how Deploy determines applicability, see Software package applicability in Deploy on page 120.
    - For more information about using variables for Windows endpoints, see Variables for Windows applicability scans and command-line operations on page 108.
7. Click **Create Package**. You can also click **Save and Finish Later** to finish creating the package later.

Next steps

- On the software package page, wait up to 10 minutes to allow the initialization to complete and the **Status** in **Package Information** to be 100%.



NOTE

The initialization must be complete and package status at 100% before proceeding to the next steps.

- Distribute the software package catalog on page 115, if not automatically done.

NOTE

It takes up to five minutes before the new software package is distributed to endpoints.

- (Optional) View software package applicability on page 116.

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- (Optional) Manually deploy a software package or bundle on page 127.
- (Optional) Add to a software bundle. For more information, see Edit a software package or bundle on page 124.
- (Optional) Add to a self-service profile. For more information, see Edit a Self Service profile on page 160.

Variables for Windows applicability scans and command-line operations

When you create a Windows software package, you can use `||PROGRAMFILES32BIT||`, `||PROGRAMFILES||`, `||ACTIVEUSERPROFILE||`, or `||ACTIVEUSERREGISTRY||` as variables for applicability scans and command-line operations. For the **Requirements**, **Update Detection**, and **Install Verification** sections, you can use these variables if you select the **Registry Path**, **Registry Data**, **File Path**, **File Size**, or **File Version** filter fields.

Installer Architecture	Variable	Path
32-bit on 32-bit endpoint	`||PROGRAMFILES32BIT||`	Full path to `%programfiles%` folder (example: `C:\Program Files`)
32-bit on 64-bit endpoint	`||PROGRAMFILES32BIT||`	Full path to `%programfiles% (x86)` folder [example: `C:\Program Files (x86)`]
32-bit on 32-bit endpoint	`||PROGRAMFILES||`	Full path to `%programfiles%` folder (example: `C:\Program Files`)
64-bit on 64-bit endpoint	`||PROGRAMFILES||`	Full path to `%programfiles%` folder (example: `C:\Program Files`)
Any	`||ACTIVEUSERPROFILE||`	Profile directory of the active authenticated user (example: `C:\users\john.smith`)
Any	`||ACTIVEUSERREGISTRY||`	Registry hive of the active authenticated user (example: `HKEY_USERS\USER-SID\`)

IMPORTANT Use double quotation marks (") if any part of the path in a command contains a space, even if you use variables.

File/Folder actions

You can perform the following actions for files and folders.

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IMPORTANT

- Do not use quotation marks in the folder path or file name in File/Folder actions.
- (Windows) Use **||ACTIVEUSERPROFILE||** to refer to paths in user's profile folders. Do not use *%userprofile%* or *%appdata%* or *%localappdata%* unless you need to interact with the SYSTEM account profile. For more information, see Variables for Windows applicability scans and command-line operations on page 108.

- **Copy File/Folder**: Specify the fully qualified path and file name. If the destination is a folder, Deploy copies the source to the destination folder; it does not replace an existing folder. For example, a command to copy `firefox.app` to `/Applications/firefox.app` with overwrite enabled produces the following results, depending on whether `/Applications/firefox.app` is an existing folder:
  - If `/Applications/firefox.app` is not an existing folder, Deploy creates `/Applications/firefox.app`.
  - If `/Applications/firefox.app` exists, Deploy creates `/Applications/firefox.app/firefox.app`.

  To always replace `/Applications/firefox.app`, set the destination to `/Applications` instead of `/Applications/firefox.app`.
- **Create Folder**: Creates a folder. If you specify a parent folder path that does not exist, it is created. For example, `c:\temp\myfiles` creates `c:\temp` folder and `myfiles` subfolder.
- **Delete File/Folder**: Any subfolders of the folder that you specify are also deleted.
- **Extract File/Folder**: Supported file types for extracting a file are 7Z, TAR, ZIP, BZIP2, GZIP, XZ, and Z. You can specify the following options for extract commands.

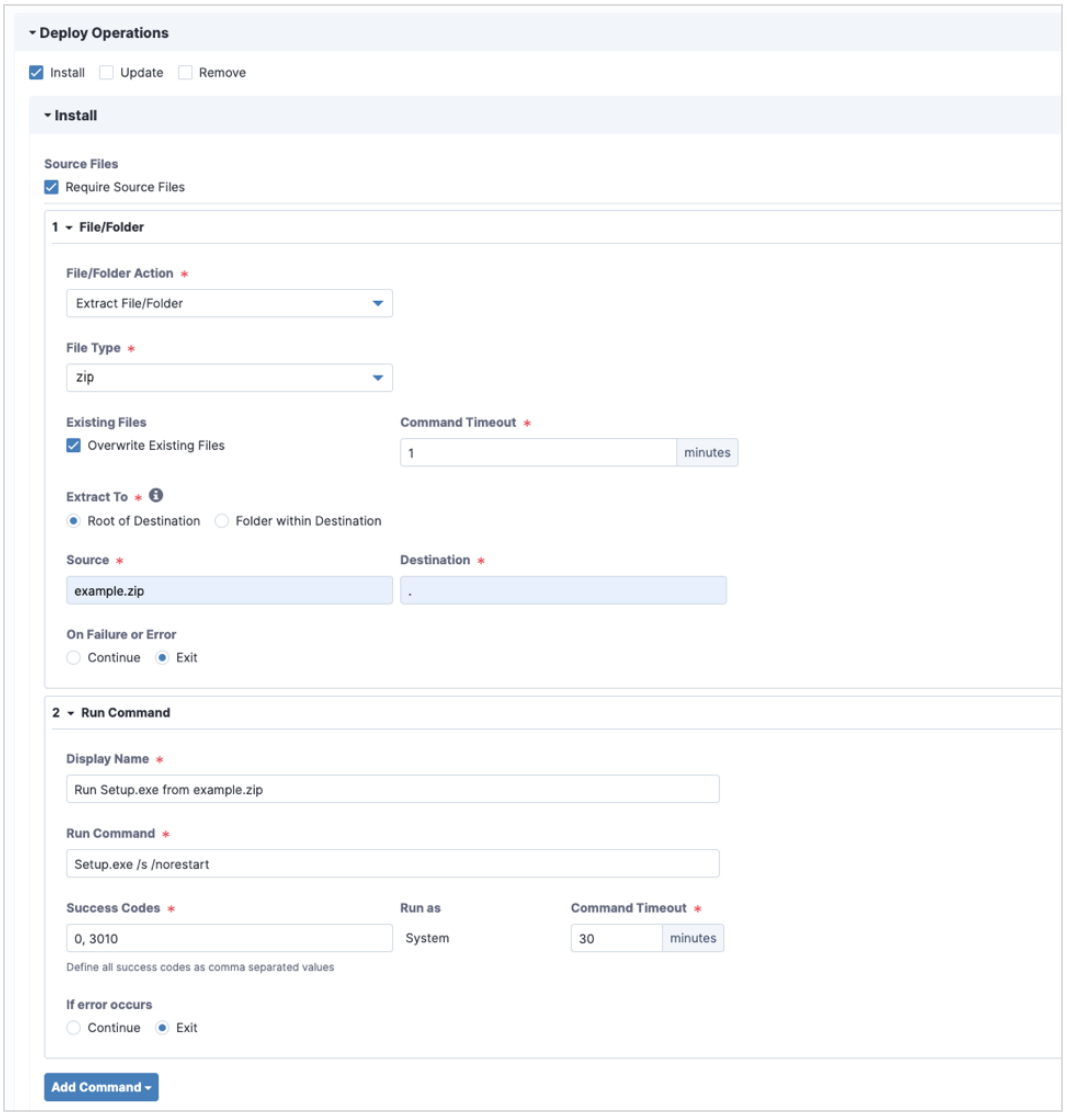
  IMPORTANT

  Extract commands fail on operating systems based on Linux Kernel 2.6 (RHEL 6, CentOS 6, Oracle Linux 6, and openSUSE 11). Use another method for file extraction on these operating systems.

  - Specify whether to overwrite existing files. If there is an existing file, however, you must also select **Continue** in the **On Failure or Error** section; otherwise, the extract command fails and Deploy retries the software package operation.
  - Specify a **Command Timeout** in minutes. The extract operation will time out after the number of minutes you specify. For best results, specify 1 minute for each 50 MB of file size. For example, if your file is 1 GB, specify a **Command Timeout** value of 20 minutes.
  - In the **Extract To** section, specify an option. **Root of Destination** extracts the contents of the compressed file in the specified destination. **Folder within Destination** creates a folder in the specified destination with the same name as the compressed file, and then extracts the file to the newly created folder.
  - As an example, to use the contents of an attached package file `example.zip` in a software package, specify `example.zip` as the **Source** and `.` as the **Destination**. Select **Root of Destination** and **Overwrite Existing Files**.

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Then, if `example.zip` contains a `Setup.exe` file that should be executed in this software package operation, add a **Run Command** step with `Setup.exe` at the start of the **Run Command**.



- **Rename File/Folder**: Specify the existing (source) and new (updated) fully qualified path and file names.

(Windows) Guidance for creating software packages to manage user-installed software

Some software titles must be managed on a per-user basis. User-specific installations most commonly exist when a user who is not a member of the local Administrator group installs an application. By default, some software installers install or run in user context even when run by a local Administrator account. Some software only installs on a per-user basis, such as Microsoft Teams classic. Generally, you do not need to create separate packages for system-wide and user-specific installations because many software installers update or replace user-specific installations when installed system-wide.

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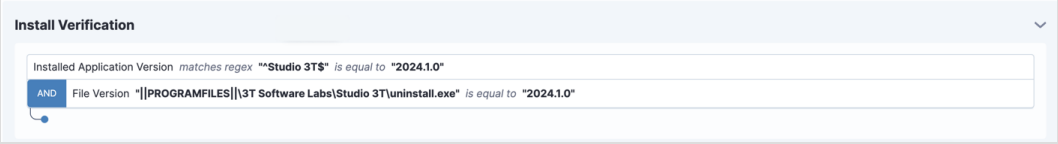
Some application installers designed to run under user context are installed under the SYSTEM account profile, instead of machine-wide, when executed by the SYSTEM account. By default, Deploy runs commands as the SYSTEM account.. You can force most Windows Installer (`.msi`) files to install system-wide if you include the `ALLUSERS=1` property in the command-line arguments. For more information, see Microsoft documentation: Windows Installer Installation Context and Microsoft documentation: Windows Installer ALLUSERS property.

To create software package applicability rules to detect user-installed software, create Installed Application rules that use only the **Active User** type. For file paths in user profiles, create rules and commands using the `||ACTIVEUSERPROFILE||` variable. For registry paths in the user's loaded profile hive, use the `||ACTIVEUSERREGISTRY||` variable.

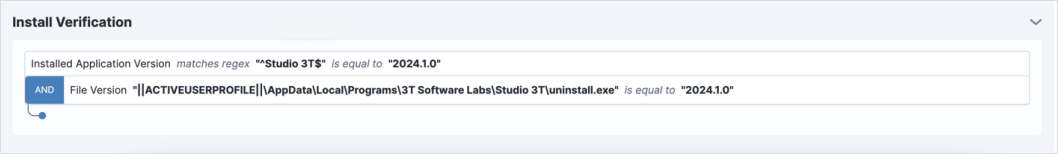
To create software package applicability rules to detect only system-wide software installations, create rules for system-wide file paths, such as `||PROGRAMFILES||`, or for system-wide registry paths, such as `HKLM\Software`. For more information about Deploy variables, see Variables for Windows applicability scans and command-line operations on page 108.

The following examples illustrate how rules detect the correct installation types.

In this example, the **Install Verification** rule in the **3T Software Labs Ltd Studio 3T (All Users)** software package uses the `File Version` attribute to ensure only system-wide installations are detected.

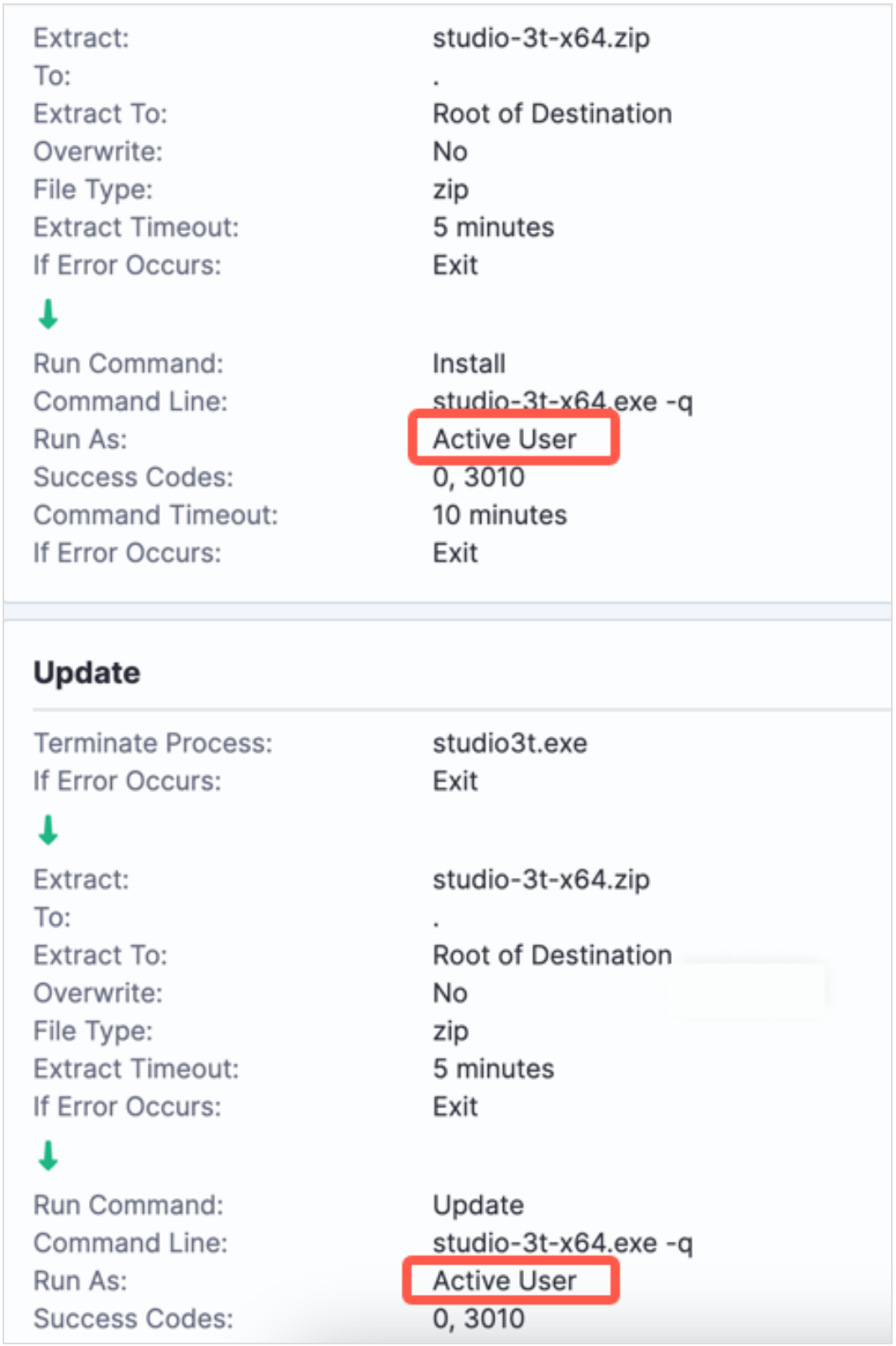


In this example, the **Install Verification** rule in the **3T Software Labs Ltd Studio 3T (Active User)** software package uses the `File Version` attribute to ensure only the installation of an active user is detected.



Additionally, the **3T Software Labs Ltd Studio 3T (Active User)** software package specifies **Active User** in the **Deploy Operations**.

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Because both **3T Software Labs Ltd Studio 3T** software packages detect only the correct installation types, the packages can be deployed to the same endpoints in a bundle to ensure all user copies stay updated, regardless of the original installation context.

Export a software package

You can export a software package so that you can later import the package on a different server or recreate a deleted package.

1. From the Main menu, go to **Modules > Deploy > Software**.
2. Click the name of your package and then click click Options **> Export Software Package**.

The ZIP file is available in your downloads folder.

Import a software package

You can import a previously exported software package on a different server or recreate a deleted package.

1. From the Main menu, go to **Modules > Deploy > Software** and then click **Import Package**.
2. Browse to the previously exported ZIP file and click **Import**.
3. Click **(Download File)** for any required files.
4. Click **Import** or **Import Duplicate** if you are importing a duplicate package.

Import a software package from the Predefined Package Gallery

You can select one of two ways to import a software package from the Predefined Package Gallery:

- You manually import a software package from the gallery.
- Deploy automatically imports the software package if Tanium updates the package or adds a new version of the package.
  If you installed Deploy with the **Apply All Tanium recommended configurations** option, certain packages are automatically imported by default. For the list of packages, see Import Deploy with default settings on page 90. You can modify the default import setting.

For guidance on determining the import setting for a software package, see Impact of software package import setting and deployment settings on ease of use on page 114.

For a complete list of the software packages available in the *Predefined Package Gallery*, see Reference: Predefined Package Gallery on page 206.

1. From the Main menu, go to **Modules > Deploy > Software** and then click **Predefined Package Gallery**.
2. Select the packages you want to import and click **Import Settings**.
   a. Select the import type.
   If you select the automatic import option, the package is immediately imported. Subsequent automatic imports occur hourly as needed, according to the software package gallery update schedule. If a package is automatically imported by Tanium, you can select the manual import option to stop the automatic import.

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> **NOTE** Packages that are automatically imported are marked as **In Use**. View these packages with the **In Use** filter on the **Software Packages** page.

b. Select if you want to enable package cleanup. If you enable cleanup, enter how many versions to keep of a software package.

Package cleanup deletes the oldest version of the software package when a new version is imported that exceeds the specified limit. Package cleanup occurs hourly. Deploy does not delete packages used by a deployment, Self Service profile, bundle, or automatic deployment configuration.

> **NOTE** If you import an older version of a software package, Deploy does not delete newer imported versions of the software package, even if the number of versions exceeds the specified limit.

c. Click **Save**.

3. If you selected manual import, import the package by clicking Import package in the **Actions** column.

Or you might import a package to reset it to the out-of-box configuration.

> **NOTE** You cannot manually import the packages that Tanium automatically imports, unless you have changed the default import setting.

After you import a package and distribute the catalog, you can deploy, edit, delete, or export the package. If a package is marked as **Tanium Managed** on the **Software Packages** page, you cannot edit or delete it unless you change the import setting to manual.

If Deploy cannot access the origin of a software package file, you can edit the package and manually add any inaccessible files. For more information, see Deploy cannot access the origin of a software package file on page 173.

> **TIP** If you import the Oracle Java 8 package and want to remove previous versions of Java, you can add `REMOVEOUTOFDATEJRES=1` to the end of the run command in the **Update Command** field of the software package.

Impact of software package import setting and deployment settings on ease of use

Review the following table to understand how the software package import setting and the deployment type and settings impact what you need to do to keep software packages and deployments up-to-date.

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Software package import setting	Package included in software package deployment	Package included in software bundle deployment
Manual import	• You must monitor the software package gallery for changes to the specific package version and additional package versions. • When Tanium updates a package or releases a new package version, add the package to the deployment.	
Automatically import updated and new versions as they are released	• If Tanium updates a specific package version, the deployment automatically uses the updated package. • When Tanium creates a new package version, add the package to the deployment.	• If a software package in a bundle uses the **Latest Applicable** version and Tanium updates a specific package version or creates a new package version, the deployment automatically uses the updated or new package. To configure the **Latest Applicable** setting, see Create a software bundle on page 123. BEST PRACTICE: To maximize ease of use, automatically import software packages and use software bundles with the **Latest Applicable** version in deployments. • If the software bundle does not use the **Latest Applicable** version and Tanium updates a specific package version, the deployment automatically uses the updated version. If Tanium creates a new package version, the deployment is updated with the new package, but you need to select the most recent version to deploy.

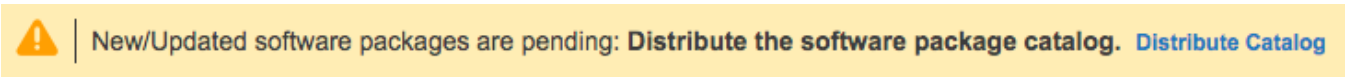
Distribute the software package catalog

After you create or edit a software package, the updated software package catalog must be distributed to the endpoints. When the endpoints receive the updated software package catalog, you can view the package applicability.

New installations of Deploy automatically distribute the software package catalog to endpoints when changes are detected.

If you upgraded from Deploy 2.1.9 or earlier and want the software package catalog to be automatically distributed, you must enable the **Auto-Distribute Catalog** option in the **Configuration Settings** tab of the Deploy Settings. If you do not enable this option, you are prompted to distribute the software package catalog each time an update is detected, and must click **Distribute Catalog**.

Distribute software package catalog

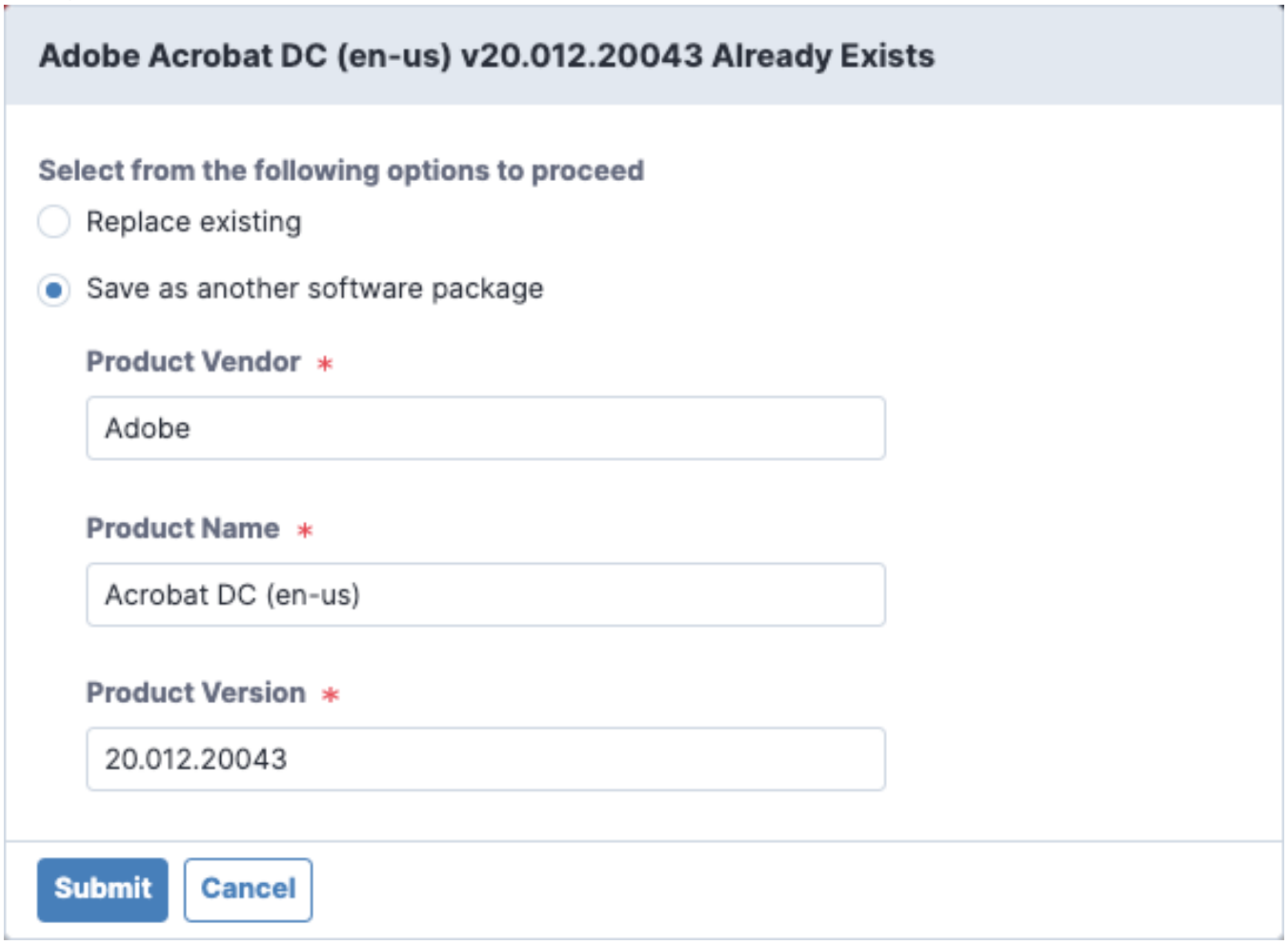


Manually replace or add a new package to the software package catalog

If a software package that is being manually imported already exists in the software package catalog, you are presented with two options prior to importing again. If you want to replace the existing package, select **Replace existing**. If you want to import the package, but also keep the existing one, select **Save as another software package**. You must then update at least one of the fields to create a unique record in the software package catalog.

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Package already exists

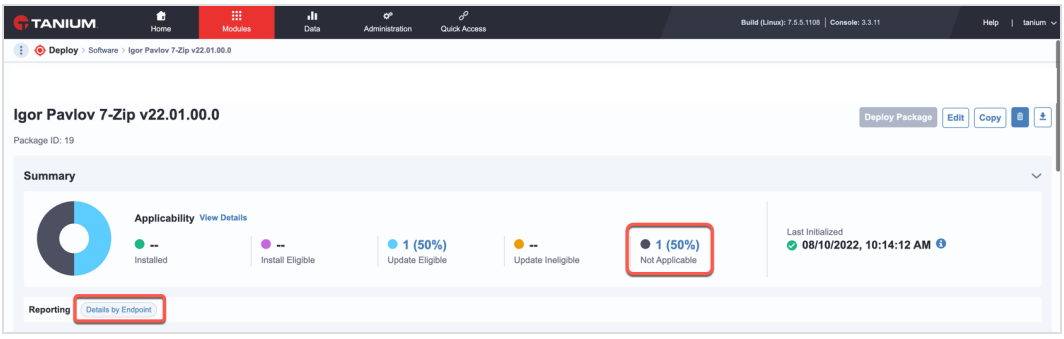


View software package applicability

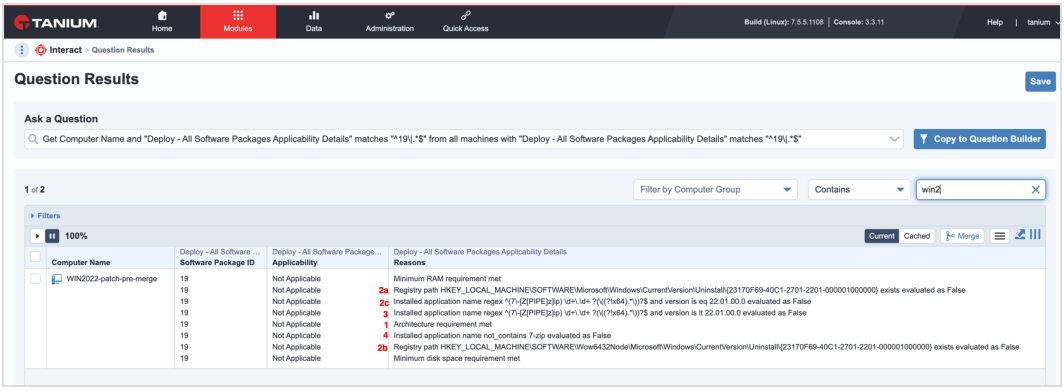
To view software package applicability and understand the results, review the Interact question results, software package details, and endpoint log files. The following example describes how to view and understand the applicability results for the **Igor Pavlov 7-Zip v22.01.00.0** software package on one endpoint.

1. From the Main menu, go to **Modules > Deploy > Software > Software Packages** and click the **7-Zip** package. Note that the 7-Zip package is not applicable on one endpoint.
   You can also view the software package applicability by expanding the package name.

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2. For more details about a specific applicability state, click **Details by Endpoint > View Online Data** or **View Cached Data**. In this example, `WIN2022-patch-pre-merge` is an endpoint with **Not Applicable** results.

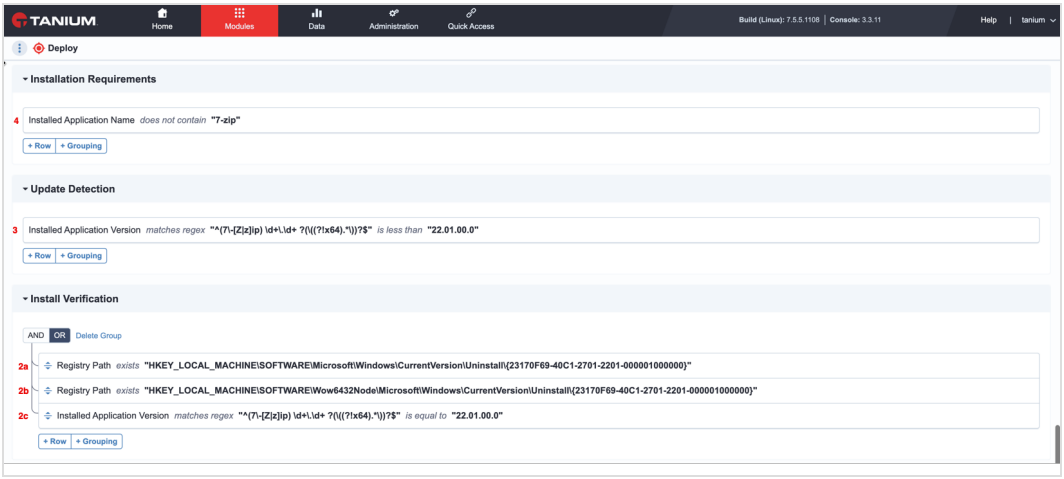


3. In Interact, review the **Reasons** column. Consider the following information:

   - Each answer in the **Reasons** column is the result of the evaluation of one of the applicability rules in the software package.
   - Each **Applicability** result does not directly relate to each **Reason**. If one result is **Not Applicable**, for example, all **Applicability** results are **Not Applicable**.
   - The answers are not displayed in evaluation order. In the image in step 2, each answer is numbered according to the evaluation order specified in Software package applicability in Deploy on page 120. For example, the answer marked with 1 corresponds with the **System architecture** criteria, the answers marked with 2 correspond with the **Install Verification** criteria, and so on.

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4. To identify which item corresponds with each criteria, compare the results in the **Reasons** column to the software package details. The following image shows the **Install Verification** , **Update Detection**, and **Installation Requirements** sections.



This software package is not **Installed** on this endpoint because the **Install Verification** criteria are not met. The two registry paths do not exist and there is not an installed application that matches the regular expression of a 32-bit 7-Zip 22.01.00.0.

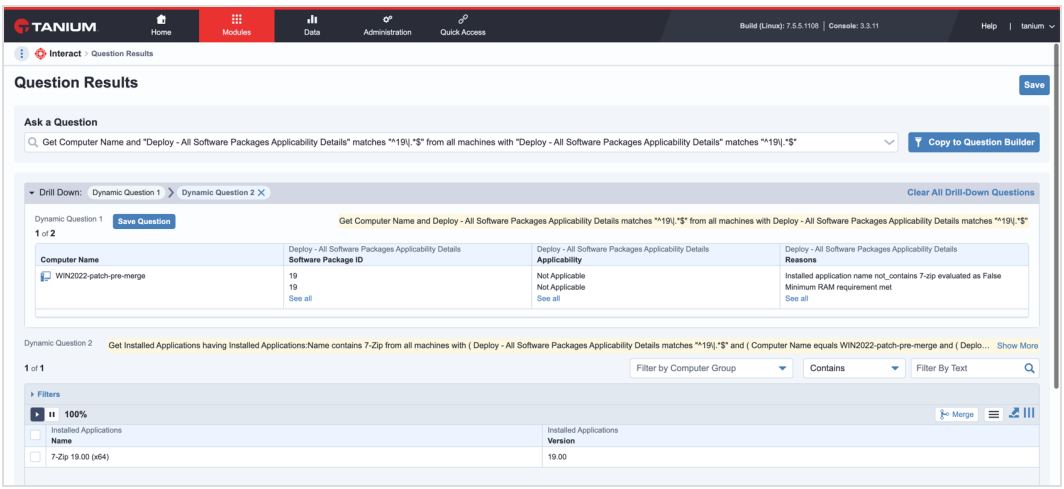
The software package is not **Update Eligible** because the **Update Detection** criteria is not met. There is not an installed application that matches the regular expression of a 32-bit 7-Zip 22.01.00.0 or older.

The software package is **Not Applicable** instead of **Install Eligible** because the **Installation Requirements** criteria is not met. There is an installed application name that contains 7-Zip. The results of the **Install Verification** and **Update Detection** criteria indicate that this endpoint does not have 32-bit 7-Zip 22.01.00.0 or older installed. So either a newer version of 32-bit 7-Zip is installed or a 64-bit version of 7-Zip is installed.

5. To quickly evaluate which version of 7-Zip is installed on the endpoint, ask Interact questions on the impacted endpoint.

   a. On the **Questions Results** page, drill down on the impacted endpoint.

   b. In this example, build a question using the **Installed Applications** filter with the name of **7-Zip**.



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This package is not applicable on the endpoint because the endpoint has a 64-bit version of 7-Zip and the software package specifies a non-64-bit version of 7-Zip.

6. To see an ordered list of applicability results for easier analysis, review the impacted endpoint's `software-management.log` file. For the log location, see Collect Deploy troubleshooting information from endpoints on page 169.
   Search for `Determining applicability status for software package 19` to find the most recent instance of this line. `19` is the ID of the software package.
   The log provides more details than are available in Interact. The log identifies that the `Installed application` rule matches the installed application name of `7-zip 19.00 (x64)`.

```
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Determining applicability status for software package 19
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Registry path HKEY_LOCAL_
MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{23170F69-40C1-
2701-2201-000001000000} exists evaluated as False
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Registry path HKEY_LOCAL_
MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{23170F69-40C1-
2701-2201-000001000000} exists evaluated as False
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Registry path HKEY_LOCAL_
MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall\
{23170F69-40C1-2701-2201-000001000000} exists evaluated as False
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Evaluating installed application rule: name regex "^(7\-
[Z|z]ip) \d+\.\d+ ?(\((?!x64).*\))?$", version eq 22.01.00.0
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Find application: name=^(7\-[Z|z]ip) \d+\.\d+ ?(\
((?!x64).*\))?$, operator=regex, version=22.01.00.0, operator=eq
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Installed application rule evaluated as False
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Evaluating installed application rule: name regex "^(7\-
[Z|z]ip) \d+\.\d+ ?(\((?!x64).*\))?$", version lt 22.01.00.0
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Find application: name=^(7\-[Z|z]ip) \d+\.\d+ ?(\
((?!x64).*\))?$, operator=regex, version=22.01.00.0, operator=lt
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Installed application rule evaluated as False
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Evaluating installed application rule: name not_contains "7-
zip", version None None
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
```

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```
package_scan]: Find application: name=7-zip, operator=contains, version=None,
operator=None
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Found matching application: Name: 7-zip 19.00 (x64), Version:
19.0
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Installed application rule evaluated as False
2022-09-19 18:41:55Z INFO [PID 1088] [Software Package Scan][software_
package_scan]: Install requirements NOT met. Package is not applicable
```

For information about configuring applicability scans, see Applicability scans on page 14.

Software package applicability in Deploy

When determining software package applicability, Deploy checks the criteria specified in the software package in the following order, stopping at the first section with matching criteria.

1. System architecture on the endpoint: If the architecture does not match any of the architectures defined in **System Requirements**, Deploy marks the software package as `Not Applicable` and moves on to the next software package.
2. **Install Verification** criteria: If those criteria match, Deploy marks the software package as `Installed` and moves to the next software package.
3. **Update Detection**: If an **Update** operation exists, Deploy then checks the **Update Detection** criteria. If those criteria are met, Deploy checks **System Requirements**:
    - If **System Requirements** match, Deploy marks the software package as `Update Eligible` and moves to the next software package.
    - If **System Requirements** do not match, Deploy marks the software package as `Update Ineligible` and moves to the next software package.
4. **Installation Requirements** criteria: If **Installation Requirements** criteria do not match, Deploy marks the software package as `Not Applicable` and moves on to the next software package. If **Installation Requirements** criteria match, Deploy then checks **System Requirements**:
    - If **System Requirements** match, Deploy marks the package as `Install Eligible` and moves on to the next software package.
    - If **System Requirements** do not match, Deploy marks the package as `Not Applicable` and moves on to the next software package.

Keep the following clarifications in mind as you review software package applicability:

- **Installation Requirements** affect only **Install** operations, not **Update** operations.
- If you do not specify **Installation Requirements**, then the software package is marked `Install Eligible` if the endpoint meets **System Requirements** criteria for the software package.

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View confidence score of Predefined Package Gallery package

You can view the confidence scores of most Predefined Package Gallery packages. The confidence score rates the probability that a gallery package deployment will succeed.

Tanium does not calculate confidence scores for certain gallery packages and other software packages. These packages have a confidence score of **N/A**. For more information about packages that do not have confidence scores, see Gallery package confidence score on page 13.



Confidence score is available only if your Tanium instance is linked to your Tanium Account. For more information, see Tanium Account User Guide: Link an on-premises Tanium instance. It can take up to one hour for confidence scores to appear after linking your account. If you unlink your account, it can take up to five hours for confidence scores to disappear.

1. From the Deploy menu, go to **Software** and then click **Predefined Package Gallery**.

   You can also view the confidence score of gallery packages on the **Software Packages** page.

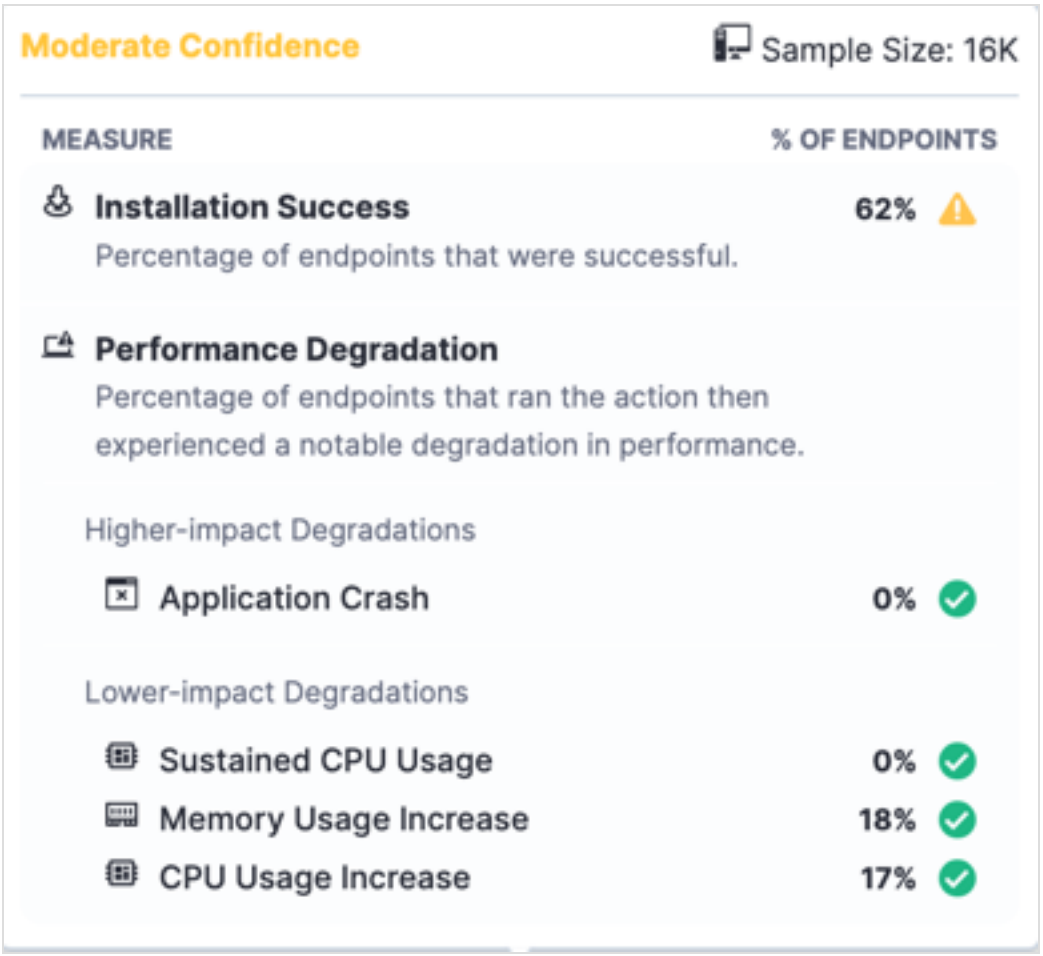
2. Click the package for which you want to review the confidence score.

Confidence score values

Score	Description
High	A score that indicates a package had positive deployments in the sense of having few or no failed executions or performance degradations.
Moderate	A score that conveys caution because the number of failed executions or degradations is significant but not critical.
Low	A score that constitutes an alert due to a critical number of failed executions or degradations.
Calculating	The Tanium Server has not yet collected results from the minimum number of endpoints (1,000) that is required for a valid score.

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3. Hover over the confidence score to see the values for the individual metrics that Tanium uses to calculate the score.



The value of each metric indicates the affected endpoints as a percentage of all the reporting endpoints. The confidence score is the weighted average value of the metrics. **Sample Size** is the number of endpoints included in the **Installation Success** metric. **Performance Degradation** metrics are sorted by impact to the confidence score, based on the weighting.

Deploy confidence score metrics

Metric	Description
Installation Success	Percentage of endpoints that successfully deployed the software package (installed or updated the software) in prior deployments.

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Deploy confidence score metrics (continued)

Metric	Description
Performance Degradation	Percentage of endpoints on which resource consumption was high or the software crashed after deploying the software package. A higher score indicates greater performance degradation. The individual performance metrics are: • CPU Usage Increase: Average CPU usage for the software exceeded two standard deviations above normal at any point in a 72-hour monitoring period. At least 15 minutes of usage is required to establish an average. • Sustained CPU Usage: CPU usage was 99% for any core on the endpoint for 3 minutes after the package installation or update. • Memory Usage Increase: Average memory usage for the software exceeded two standard deviations above normal at any point in a 72-hour monitoring period. At least 15 minutes of usage is required to establish an average. • Application Crash: The software crashed one or more times after the installation or update.

Create a software bundle

1. From the Main menu, go to **Modules > Deploy > Software** and then click **Software Bundles**.
2. Click **Create Software Bundle**.
3. In the **Bundle Details** section, specify the bundle name, an optional description, and the content set.

   IMPORTANT

   Because of the complexities of managing permissions with multiple users, you cannot move a software bundle from one content set to another after the initial assignment.

4. In the **Bundle Workflow** section, select software options.
   a. In the **Platform** menu, select a platform. All software packages in a bundle must apply to the same platform.
   b. Click **Add** to select the software packages to add to the bundle.

      TIP

      You can filter packages by typing the platform, vendor name, or package title.

   c. Select a specific version, or choose **Latest Applicable** to automatically select the latest available version for each endpoint.
   d. Select the operation: **Install Or Update**, **Install**, **Update**, or **Remove**.
   e. Select whether you want the bundle to exit or continue or if the package fails.

   TIP

   You can change the order of the packages by dragging the package.

5. Click **Create Bundle**.

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Edit a software package or bundle

To edit a package or bundle, click the name of your package or bundle and then click **Edit**.

Copy a software package or bundle

To copy a package or bundle, click the name of your package or bundle and then click **Copy**.

When a software package or bundle is copied, the name is automatically prepended with **Copy -** .

Delete a software package or bundle

To delete a package or bundle, click the name of your package or bundle and then click Delete .

To delete multiple packages simultaneously, select the packages from the **Software Packages** page and then click **Delete**.



You cannot delete a software package if it is referenced in bundles, active deployments, or Self Service profiles or if it is the latest auto-imported version of a Tanium Managed package. If you delete a software package in an automatic deployment configuration and the package is used in a pending deployment, the deployment status is changed to Skipped.

You cannot delete a software bundle if it is referenced in active deployments or Self Service profiles.

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Manually deploying software

Use manual deployments to install, update, or uninstall software on a set of target computers. Deployments can run once or be ongoing to meet requirements such as:

- Maintain operational hygiene and system baselines.
- Manage systems which may be online for short periods.
- Rerun packages which become applicable as system states change.

Create manual deployments to deploy specific versions of packages or bundles using the traditional deployment process.



Deployments do not run outside of a maintenance window unless the **Override maintenance window** option is selected in the deployment options. You must create at least one maintenance window for other deployments to run. For more information about creating a maintenance window, see Managing maintenance windows on page 156.

Before you begin

- To create a software package deployment, ensure that you have at least one software package. For more information, see Create a software package on page 103 or Import a software package on page 113.
- To create a software bundle deployment, ensure that you have at least one software bundle. For more information, see Create a software bundle on page 123.
- If you want to notify the end users of your Windows and macOS endpoints about the start of deployments or restarts that occur after deployments, install the Tanium End-User Notifications solution. For more information, see Tanium End-User Notifications User Guide: Installing End-User Notifications and Manually deploying software on page 125.
- If you are creating a software package ongoing deployment that will use a ring deployment, do the following:
    - Create a deployment plan. For more information, see Tanium Console User Guide: Create a deployment plan.
      To limit the chance of a user deleting a ring deployment plan, assign the ring deployment plan to a content set with limited access.
    - Review the timing factors and maintenance window considerations for ring deployments. For more information, see Tanium Console User Guide: Deployment timing factors and maintenance windows.
    - Ensure that endpoints have Endpoint Toolset version 2.10 or later. This version is required for ring deployment support. To identify endpoints that need a toolset update, see Endpoint does not have toolset version that supports ring deployments on page 174.

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Create a deployment template

You can create a deployment template to save settings for a manual or automatic deployment that you can issue repeatedly. You can either create a deployment template from the **Deployment Templates** menu item, or you can select an option when you create a manual deployment to save the options as a template.

1. From the Main menu, go to **Modules > Deploy > Deployment Templates** and then click **Create Deployment Template**.
2. Specify a name, an optional description for your deployment template, and the content set.

   IMPORTANT

   Because of the complexities of managing permissions with multiple users, you cannot move a deployment template from one content set to another after the initial assignment.

3. Select deployment options. These options are similar to the options you can configure in an individual deployment. For more information, see Manually deploy a software package or bundle on page 127.

   BEST PRACTICE

   For self service deployments that are set for the future, use the **Make Available Before Start Time** option.

4. Click **Create Deployment Template**.

You can use this template when you create a deployment.

Set the default deployment template

The default deployment template is applied when you create manual deployments. Importing Deploy with automatic configuration creates three deployment templates and sets one of them as the default. You can change the default template or remove a template as the default.

NOTE

You can only set a deployment template in the **Deploy Content Set** as the default deployment template.

1. From the Main menu, go to **Modules > Deploy > Deployment Templates**.
2. Select a template and click **Set as Default**.
3. To remove the default designation from a template, select the default template and click **Remove as Default**.

Delete a deployment template

1. From the Main menu, go to **Modules > Deploy > Deployment Templates**.
2. Select one or more templates and click **Delete Deployment Templates**.

You can also click the name of your deployment template and then click Delete .

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Manually deploy a software package or bundle

1. From the Main menu, go to **Modules > Deploy > Deployments** and then click **Create Deployment**.

   TIP

   You can also create a deployment from the **Software** page. From the **Software > Software Packages** or **Software Bundles** page, select a package or bundle and click **Deploy Package** or **Deploy Bundle**. If you use either of these methods to create a deployment, then the package or bundle that you select will already be populated in the **Deployment Details** and **Software to Deploy** sections.

2. (Optional) Click **Apply Deployment Template** to select an existing template on which to base this deployment.

3. In the **Deployment Overview** section, accept the default name or provide a name for the deployment, add an optional description, and select the content set.

   IMPORTANT

   Because of the complexities of managing permissions with multiple users, you cannot move a deployment from one content set to another after the initial assignment.

4. In the **Deployment Details** section, complete the following steps as needed for the operating system of the deployment:

   NOTE

   You can select only the software packages and bundles to which you have the required permissions.

   - Select **Software Package**, select the software package operation, and then select the package from the list. You can filter packages by typing the platform, vendor name, or package title. The list also displays the package version, confidence score for most unedited gallery packages, and content set.

     For more information about confidence scores, see Gallery package confidence score on page 13.

   - Select **Software Bundle** and then select the bundle from the list.

     NOTE

     A software bundle is platform-specific and each software package evaluates and installs independently, but is available only for the specified OS platform. If an individual package fails to install during a bundle deployment, you can decide if the bundle should continue and install the remaining packages, or you can choose to stop on failure and report the failure.

5. In the **Endpoints to Target** section, add targeting criteria for endpoints.

   - Select the following targeting methods and complete the fields as needed:

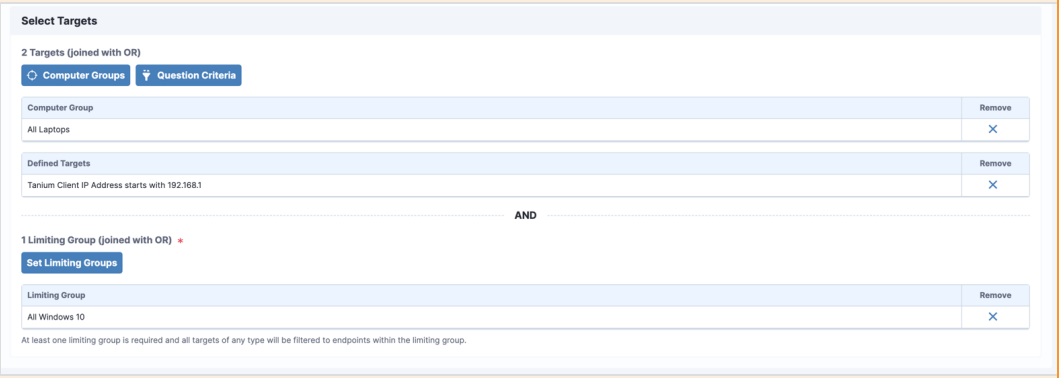
     - **Computer Groups** provides a list of computer groups for which you are assigned. You can later use these groups to refine applicability results, as needed. For more information, see Tanium Console User Guide: Assign computer groups.

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- **Question Criteria** filters on all endpoints with a specific set of criteria and within the limiting groups selected from the list of available groups. Limiting groups are available after you add question criteria. For example, you can type `Operating System contains win` in the **Filter Bar** or use the **Filter Builder** to target all Windows endpoints within those groups. The deployment is applied to all endpoints that meet the criteria. Individual rows cannot be selected. Limiting groups are combined with the **Computer Groups** and **Question Criteria** options using an `AND` operator. If you define multiple limiting groups, they are evaluated with an `OR` operator.

IMPORTANT

The **Computer Groups** and **Question Criteria** options are joined by an `OR` operator. If you use multiple targets, the deployment applies to endpoints that match any of the targets you specify. If you use question criteria, you must also specify a limiting group that limits all targets. For example, if you select **All Laptops** as the target computer group, the deployment goes to all laptops managed by Deploy. However, if you also add `Tanium Client IP Address starts with 192.168.1` as the targeting criteria, and then select **All Windows 10** as the limiting group, then the deployment goes to all Windows 10 devices that are either laptops or have an IP address starting with `192.168.1`.



BEST PRACTICE

If you set question criteria, use criteria based on attributes that cannot be changed by the deployment. If you select attributes that can change, endpoints might enter a state where the deployment is `Not Applicable` with a sub-status of `Configuration not available or not targeted`. For more information about how endpoints might enter this state, see Reference: Deployment status on page 253.

- With a software package ongoing deployment, you can define how the deployment moves through a sequence of rings. Select **Enable Ring Deployment** and select the ring deployment plan.

  The Deploy deployment specifies when a deployment starts in ring 1. The ring deployment plan then specifies how the deployment progresses through the rings. For more information, including how Deploy actions work with ring criteria, see Tanium Console User Guide: Managing deployment plans and Tanium Console User Guide: Ring-based deployment.

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IMPORTANT

If you enabled configuration approvals, ring deployments are not supported. To use ring deployments, you need to disable approvals. For more information, see Tanium Endpoint Configuration User Guide: Managing approvals.

6. Review the **Deployment Type and Schedule** section and click Edit to make changes as needed.

NOTE

Ring deployments affect the timing of deployment settings. An endpoint is notified of the deployment when the deployment reaches the ring that includes the endpoint. If you configure deployment settings, such as **Make available before Start Time**, **Download all package files immediately**, or **Distribute Over Time**, the endpoint can act on the settings only when the deployment reaches the ring that includes the endpoint.

a. Specify a deployment frequency. You can do an ongoing deployment that does not have an end time or a one-time deployment with a specific start and end time.

NOTE

A software package operation may be interrupted if you stop the deployment, the deployment ends, or the maintenance window closes.

NOTE

After the deployment ends or the maintenance window closes, restarts do not occur, End-User Notification messages do not appear, and remaining steps in a software bundle (if applicable) do not run.

b. Designate the deployment time zone.

Choose the local time on the endpoint or UTC time.

c. Specify the window of time during which the deployment will be effective.

d. If you select an ongoing or single deployment, you can protect shared resources by selecting **Enabled** for the **Distribute Over Time** option and indicating an amount of time. The value you indicate for **Distribute Over Time** must be less than the deployment duration.

Distribute Over Time randomizes the deployment start time on each endpoint by an amount of time up to the value configured. This option reduces concurrent consumption of shared compute resources in a virtual environment.

BEST PRACTICE

Specify a **Distribute Over Time** value that is at least two hours less than the length of the deployment window and any maintenance windows. If the value exceeds deployment and maintenance windows, some endpoints will not be able to run the deployment or will install the software outside of the maintenance window.

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7. Review the **Deployment Settings** section and click Edit to make changes as needed.

   - **Download all package files immediately**: When selected, endpoints start downloading files before the deployment start time and ignores maintenance windows. When cleared, endpoints start downloading files when the deployment start time has passed and a maintenance window is open. This option is available when **Enable ring deployment** is not selected.
   - **Start downloading files outside of maintenance windows**: When selected, endpoints start downloading files at the deployment start time and ignores maintenance windows. When cleared, endpoints start downloading files when the deployment start time has passed and a maintenance window is open. This option is available when **Enable ring deployment** is selected.

     BEST PRACTICE

     Select this option for future deployments. If you find that endpoints are not completing installations within the specified windows, schedule the deployments even further in advance.

     BEST PRACTICE

     To enable an advanced option to schedule download times, contact Tanium Support.

   - **Override Maintenance Windows**: Ignore deployment restrictions and allow deployment operations (install, update, remove, and restart) outside of maintenance windows. This option is available for users who have the **Deploy Deployment Override Maintenance Window** permission.
   - Configure the End-User Self Service settings.
     - **Hide from Self Service Client**: Hide this deployment from the Self Service Client application
     - **Make available before Start Time**: (When **Enable ring deployment** is not selected) Allow the end user to start this deployment in the Self Service Client application before the scheduled **Start Time** and outside of maintenance windows.
     - **Allow end-users to start deployment prior to maintenance window**: (When **Enable ring deployment** is selected) Allow the end user to start this deployment in the Self Service Client application outside of maintenance windows.
   - Select whether to restart the endpoint. To avoid suddenly restarting an endpoint while an end user is working, configure a notification if the deployment requires a restart.

     NOTE

     If no user is logged into an endpoint, the endpoint restarts immediately after deployment completion even if a post-deployment notification is configured.

8. (Windows and macOS endpoints) Review the **User Notifications** section and click Edit to make changes as needed.

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NOTE

For endpoints with multiple users, notifications appear for the user with the lowest active session ID. For example, when two users are logged in at the same time, User1 gets the notification but User2 does not. If User1 logs off and User3 logs in, User2 gets the notification because User2 now has the lowest active session ID.

NOTE

If no user is logged in at the **deployment start time**, the deployment starts immediately even if a pre-deployment notification is configured.

a. To warn users before a change is made to endpoints, select the option to **Enable Pre-Installation Notifications** and configure the following settings.

   Pre-deployment notifications are especially important for Update and Remove operations because they can affect applications that are in use on an endpoint.

   - Specify the **Duration of Notification Period** to configure the amount of time before the notification must be accepted. The deadline is calculated by adding this value to the time that the notification is first displayed. If a user is signed in but the screen is locked, the deadline is still set as if the notification was displayed. If a user is signed in to a Windows remote desktop session but is not currently connected, the deadline is still set as if the notification was displayed. The notification is then displayed if the user reconnects.
   - Select **Allow user to postpone** to give the user an option to defer accepting the notification for a specified amount of time. A user cannot postpone beyond the deadline.

     Then specify the amount of time a user can postpone the notification. The total amount of time specified must be less than the **Duration of Notification Period** value. Note that this is only the amount of time to defer the notification from being displayed again and does not affect when the countdown to deadline appears.
   - Specify the **Appearance** of the notification. **Allow user to minimize** displays the notification with a title bar that includes the minimize option. **Do not allow user to minimize** displays the notification without a title bar. **Do not allow user to minimize** is the default.
   - Specify the **Final Countdown to Deadline** to configure the amount of time for users to accept the notification. The notification also shows a countdown until users must accept. If users dismiss the notification and a restart is required, the notification will reappear in the last minute of the final countdown to deadline before the computer restarts.
   - Specify the title and body of the notification message. Upload optional icon and body images for branding to avoid confusing users and to limit support calls.

     NOTE

     You can use `||OPERATION||`, `||PACKAGENAME||`, or `||DEPLOYMENTNAME||` as variables in the title or body. If you are deploying a software bundle, the bundle name is used for the `||PACKAGENAME||` variable.

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IMPORTANT

If your deployment is configured for a pre-notification, but the endpoint does not have the End-User Notifications tools installed, the deployment fails and triggers the following error: `EunIncompatible: EUN is not installed or the version installed is too old.` For more information about installing End-User Notifications tools on endpoints, see Tanium End-User Notifications User Guide: Configuring End-User Notifications.

- (Optional) Select additional languages and provide translated title and body text for endpoints that are configured for other languages. By default, the notification displays content in the system language on the endpoints. If you enable additional languages, the user can select other languages to display.
- To view the preview in additional languages, toggle the language dropdown list in the preview. You can also use the dropdown list to preview the notification in light or dark theme.
- Select **Show Countdown** to display a visual indicator of the remaining time before the deadline.

b. To warn users after a change is made to endpoints, select the option to **Enable Post-Installation Notifications** and configure the settings.

Post-deployment notifications are especially important for deployments that require restarts because they can occur when users are working on endpoints.

NOTE

If no user is logged into an endpoint, the endpoint restarts immediately after deployment completion even if a post-deployment notification is configured.

9. (Optional) To create a new template based on this deployment, click **Save Settings as New Template**, specify a name for the template, and then click **Save**. For more information, see Create a deployment template on page 126.
10. Click **Preview to Continue**.
11. Review the deployment details, and then click **Deploy**.

Manually deploy a software package to a single endpoint

You can quickly create a deployment to install a software package on a single endpoint through the Endpoint Details page in Tanium Reporting. To create a deployment, you must have the **Deploy Deployment write** permission.

NOTE

You can also install a software package on a single endpoint by following the steps in Manually deploy a software package or bundle on page 127.

1. Open the Endpoint Details page for the endpoint that requires a deployment. For more information, see Tanium Reporting User Guide: View endpoint details.
2. Select the **Endpoint Management** tab.

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3. In the **Software Package Applicability** section, click **Install** next to the package you want to deploy, and complete the deployment.

Review deployment summary

Review the deployment results by status, any error messages, and the deployment configuration details.

Automatic deployments are prepended with **Auto Deployment: *Operation***. For more information, see Automatically deploying software on page 135.

1. From the Main menu, go to **Modules > Deploy > Deployments**.
2. Select the **Active**, **Inactive**, or **Self Service** tab.

   NOTE

   A software package or bundle appears in the **Self Service** tab after it is included in a Self Service profile and applicability counts appear after a user installs, updates, or removes the item in the End-User Self Service Client application.

3. Click the deployment name. The top section shows the content set and information about the last time the status or initialization was updated. For automatic deployments, the **Auto-Deployment Rule** links to the automatic deployment configuration rule that created the deployment. For more information, see Create an automatic deployment configuration on page 136.
4. The **Status** section shows the status and substatus, links to deployment results, and any error messages. For more information about deployment statuses, see Reference: Deployment status on page 253. For manual ongoing and automatic deployments, this section shows information about the ring deployment plan and status. For more information, see Tanium Console User Guide: View all the details for a single deployment.
5. In the Deployment Details area, expand the section you want to see, or click **Expand All** to expand all sections.
   - **Content to deploy** provides all the configuration information, including installation details, execution information, installation workflow and notifications, patch lists, patches, and confidence score.
   - **Endpoints to target** lists the targeted endpoints for the deployment.
   - **Deployment type and schedule** shows the deployment frequency, time zone, and schedule.
   - **Deployment settings** shows the settings for download, maintenance windows, End-User Self Service, and restart.
   - **User notifications** has the information about any end user notifications associated with the deployment.

Stop a deployment

You can stop a package or bundle deployment, but it does not remove packages that have already completed installation. If you stop a ring-based deployment, the deployment stops in the active ring and does not continue to the next ring.

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1. From the Main menu, go to **Modules > Deploy > Deployments**.
2. On the **Active** tab, click the deployment name, and then click **Stop**.
3. Go to the **Inactive** tab and click the deployment name to verify the status.



If you enabled configuration approvals, it can take up to 10 minutes for the deployment to move to the **Inactive** tab after the configuration change is approved. If the change is rejected, the deployment does not stop. For more information about enabling and using configuration approvals in Endpoint Configuration, see Tanium Endpoint Configuration User Guide: Managing approvals.

Reissue a deployment

You can restart a stopped deployment or reissue a one-time deployment. Reissuing a deployment creates a new deployment with the same configuration and targets.

1. From the Main menu, go to **Modules > Deploy > Deployments**.
2. On the **Inactive** tab, click the deployment name, and then click **Reissue**.
3. Make changes if necessary and then click **Deploy**.

Clone a deployment

You can clone an active deployment if you want to create a deployment that is similar to an existing deployment. When a deployment is cloned, the name is automatically prepended with **Clone:** and the targets are removed.

1. From the Main menu, go to **Modules > Deploy > Deployments**.
2. On the **Active** tab, click the deployment name, and then click **Clone**.
3. Make changes and then click **Deploy**.

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Automatically deploying software

Automatic deployments are created by automatic deployment configurations. Create automatic deployment configurations to install or update Predefined Package Gallery packages in ongoing deployments.

Use automatic deployments for software packages that you want to keep automatically updated with the latest versions or if you want deployments to automatically start based on rules.



If you enabled configuration approvals, automatic deployments are not supported. To use automatic deployments, you need to disable approvals. For more information, see Tanium Endpoint Configuration User Guide: Managing approvals.

Overview

An automatic deployment configuration consists of the following items:

- General deployment settings, such as notifications
- Endpoint targeting criteria
- Ring deployment plan
- End-User Self Service profile settings
- Rules that identify the Predefined Package Gallery packages and rule triggers

  Rule triggers can be based on the confidence score and age of the package in the Predefined Package Gallery or on the latest available version of a package. If the specified deployment trigger rules are not met, you can also manually override the rules and create the deployment.

  You can create multiple rules in a configuration if you want multiple software packages to share the same deployment settings, target endpoints, and ring deployment plan. Each rule can have one software package with unique deployment rule triggers or multiple packages that share rule triggers. An automatic deployment configuration creates a deployment for each software package in a rule.

Create multiple automatic deployment configurations when you want to specify different general deployment settings, target endpoints, or ring deployment plans for software packages.

Automatic deployment configurations support installing or updating a software package. To remove a software package, create a manual deployment. For more information, see Manually deploy a software package or bundle on page 127.

Supported packages

Packages are only enabled for automatic deployment configurations when they can be imported from the Predefined Package Gallery and deployed without modification.

Packages can be disabled for automatic deployment configuration for any of the following reasons:

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- If the software package uses files that Tanium cannot download by default, the package is not available for automatic deployment. For more information, see Deploy cannot access the origin of a software package file on page 173.
- If the software package must be edited by the operator for any reason, the package is not available for automatic deployment.
- If the software package does not have an Update operation, the package is not available for automatic deployment.
- If the software package is intended for one-time manual use, such as Windows InPlace Upgrade, the package is not available for automatic deployment.

Automatic deployment considerations for software package versions and revisions

Deploy handles automatic deployments differently for new software package versions and new revisions of a software package. A software package version is a number assigned to a package by the vendor. The software package version appears in the workbench in the **Version** column on the **Packages** page. For example, Google might release Google Chrome version 130.0.6723.92 and then release a new version of 130.0.6723.94. A revision to a software package is an update to that package that does not change the version.

If an older *version* of a software package is being deployed and a new version of the software package is released and the rule trigger criteria are met, a new automatic deployment is created. The older software package version deployment continues until it reaches the last ring. After the newer package version deployment gets to the last ring, the older package version deployment is marked as superseded.

If an older *revision* of a software package is being deployed and a new revision of that software package version is released, the new revision is imported and overwrites the prior revision. The existing deployment continues to deploy the old revision. You can choose to stop the current deployment and then start a new deployment with the newer revision, or take no action and allow the older revision deployment to continue. For more information, see Deploy a revision of a software package on page 149.

Before you begin

- Create a ring deployment plan. For more information, see Tanium Console User Guide: Create a deployment plan.
  To limit the chance of a user deleting a ring deployment plan, assign the ring deployment plan to a content set with limited access.
- Review the timing factors and maintenance window considerations for ring deployments. For more information, see Tanium Console User Guide: Deployment timing factors and maintenance windows.
- Ensure that endpoints have Endpoint Toolset version 2.10 or later. This version is required for ring deployment support. To identify endpoints that need a toolset update, see Endpoint does not have toolset version that supports ring deployments on page 174.

Create an automatic deployment configuration

Create a configuration to automatically create deployments for software packages.

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1. From the Main menu, go to **Modules > Deploy > Deployment Automation** and then click **Create Automatic Deployment Configuration**.
2. Complete the **Configuration Settings** section.
   a. Enter a unique name for the configuration.
   b. Select the content set.

      IMPORTANT

      Deployments created from this automatic deployment configuration use this content set.

   c. (Optional) Select a deployment template.

      The default deployment template is selected by default. To select a different template, remove the template and select a new one from the list. The template is applied to the **Advanced Deployment Options**, **Pre-Notify Users**, and **Post-Notify Users** sections.
3. In **Targets**, add targeting criteria for endpoints.

   Select the following targeting methods and complete the fields as needed:

   - **Computer Groups** provides a list of computer groups for which you are assigned. You can later use these groups to refine applicability results, as needed. For more information, see Tanium Console User Guide: Assign computer groups.
   - **Question Criteria** filters on all endpoints with a specific set of criteria and within the limiting groups selected from the list of available groups. Limiting groups are available after you add question criteria. For example, you can type `Operating System contains win` in the **Filter Bar** or use the **Filter Builder** to target all Windows endpoints within those groups. The deployment is applied to all endpoints that meet the criteria. Individual rows cannot be selected. Limiting groups are combined with the **Computer Groups** and **Question Criteria** options using an `AND` operator. If you define multiple limiting groups, they are evaluated with an `OR` operator.

IMPORTANT

The **Computer Groups** and **Question Criteria** options are joined by an `OR` operator. If you use multiple targets, the deployment applies to endpoints that match any of the targets you specify. If you use question criteria, you must also specify a limiting group that limits all targets. For example, if you select **All Laptops** as the target computer group, the deployment goes to all laptops managed by Deploy. However, if you also add `Tanium Client IP Address starts with 192.168.1` as the targeting criteria, and then select **All Windows 11** as the limiting group, then the deployment goes to all Windows 11 devices that are either laptops or have an IP address starting with `192.168.1`.

BEST PRACTICE

If you set question criteria, use criteria based on attributes that cannot be changed by the deployment. If you select attributes that can change, endpoints might enter a state where the deployment is `Not Applicable` with a sub-status of `Configuration not available or not targeted`. For more information about how endpoints might enter this state, see Reference: Deployment status on page 253.

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4. In the **Deployment Plan** section, select the ring deployment plan to use for all deployments created from this automatic deployment configuration. Review the deployment plan type, number of rings, and progression criteria. For more details, click **Plan Details**.

   The automatic deployment configuration rule triggers specify when a deployment starts in ring 1. The ring deployment plan specifies how the deployment progresses through the rings. Endpoints must be targeted in both the automatic deployment configuration and the ring deployment plan to be included in a deployment. For more information, including how Deploy actions work with ring criteria, see Tanium Console User Guide: Managing deployment plans and Tanium Console User Guide: Ring-based deployment.

5. In the **End-User Self Service** section, configure the End-User Self Service (EUSS) settings for Windows and macOS endpoints.

   - **Deployment visibility**: When the deployment progresses to the ring that includes the endpoint, select whether to display deployment details in the End-User Self Service client. You can also choose to allow users to start a deployment before a maintenance window begins.
   - **Self Service Profile Automation**: Select whether to automatically create a Self Service profile for this configuration. If you select to automatically create a matching Self Service profile, a profile is created with the same content set, same targeting criteria, and any applicable software packages defined in this automatic deployment configuration.

     To edit the resulting EUSS profile, update this automatic deployment configuration. You cannot edit the resulting profile from the **Modules > Deploy > Self Service Profiles** page.

     If you selected **Automatically create a matching Self Service profile for this automatic deployment configuration**, configure the following settings:

     - **Package Version Availability**: Select the package versions to display in the Self Service Client.
       - **Latest deployed version**: Shows the latest deployed software version that exists in any ring.
       - **Latest version currently deployed in final ring**: Shows the latest deployed software version that exists in the final ring.
       - **All currently deployed versions**: Shows currently deployed software versions that exist in any ring.
     - **Allowed Operations**: Select the package operations that a user can initiate from the Self Service Client. If a package does not support any of the selected operations, the package is not included in the profile.

6. In the **Advanced Deployment Options** section, make changes as needed.

   Ring deployments affect the timing of deployment settings. An endpoint is notified of the deployment when the deployment reaches the ring that includes the endpoint. If you configure deployment settings, such as **Show deployment and allow end-users to start deployment prior to maintenance window**, **Start downloading files outside of maintenance windows**, or **Distribute Over Time**, an endpoint can act on the settings only when the deployment reaches the ring that includes the endpoint.

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a. If you want the endpoints to begin downloading the software package files even outside of a maintenance window, select the option for **Start downloading files outside of maintenance windows**.

b. To randomize the deployment start time on each endpoint, select **Distribute Over Time** and configure an amount of time.

   This option reduces concurrent consumption of shared compute resources in a virtual environment.

   BEST PRACTICE

   Specify a **Distribute Over Time** value that is at least two hours less than the length of any maintenance windows. If the value exceeds maintenance windows, some endpoints will not be able to run the deployment.

c. If you want to ignore deployment restrictions, select **Override maintenance windows**.

d. Select whether to restart the endpoint. To avoid suddenly restarting an endpoint while the end user is working, configure a notification in the **Pre-Notify Users** or **Post-Notify Users** sections if the deployment requires a restart.

   NOTE

   If no user is logged into an endpoint, the endpoint restarts immediately after deployment completion even if a post-deployment notification is configured.

7. (Windows and macOS endpoints) In the **Pre-Notify Users** section, configure settings to notify the end user before deployment activity. Pre-deployment notifications are especially important for update operations because they can affect applications that are in use on an endpoint.

   NOTE

   For endpoints with multiple users, notifications appear for the user with the lowest active session ID. For example, when two users are logged in at the same time, User1 gets the notification but User2 does not. If User1 logs off and User3 logs in, User2 gets the notification because User2 now has the lowest active session ID.

   NOTE

   If no user is logged in at the **deployment start time**, the deployment starts immediately even if a pre-deployment notification is configured.

   a. Select **Notify user before deployment activity**.

   b. Specify the **Duration of Notification Period** to configure the amount of time before the notification must be accepted. The deadline is calculated by adding this value to the time that the notification is first displayed. If a user is signed in but the screen is locked, the deadline is still set as if the notification was displayed. If a user is signed in to a Windows remote desktop session but is not currently connected, the deadline is still set as if the notification was displayed. The notification is then displayed if the user reconnects.

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c. Specify the **Final Countdown to Deadline** to configure the amount of time for users to accept the notification. The notification also shows a countdown until users must accept. If users dismiss the notification and a restart is required, the notification will reappear in the last minute of the final countdown to deadline before the computer restarts.

d. Select **Allow user to postpone** to give the user an option to defer accepting the notification for a specified amount of time. A user cannot postpone beyond the deadline. Then specify the amount of time a user can postpone the notification. The total amount of time specified must be less than the **Duration of Notification Period** value. Note that this is only the amount of time to defer the notification from being displayed again and does not affect when the countdown to deadline appears.

e. Specify the **Appearance** of the notification. **Allow user to minimize** displays the notification with a title bar that includes the minimize option. **Do not allow user to minimize** displays the notification without a title bar. **Do not allow user to minimize** is the default.

f. Specify the title and body of the notification message. Upload optional icon and body images for branding to avoid confusing users and to limit support calls.



You can use `||OPERATION||`, `||PACKAGENAME||`, or `||DEPLOYMENTNAME||` as variables in the title or body.



If your deployment is configured for a pre-notification, but the endpoint does not have the End-User Notifications tools installed, the deployment fails and triggers the following error: `EunIncompatible: EUN is not installed or the version installed is too old.` For more information about installing End-User Notifications tools on endpoints, see Tanium End-User Notifications User Guide: Configuring End-User Notifications.

g. (Optional) Select additional languages and provide translated title and body text for endpoints that are configured for other languages. By default, the notification displays content in the system language on the endpoints. If you enable additional languages, the user can select other languages to display.

To view the preview in additional languages, toggle the language dropdown list in the preview. You can also use the dropdown list to preview the notification in light or dark theme.

h. Select **Show Countdown** to display a visual indicator of the remaining time before the deadline.

8. (Windows and macOS endpoints) In the **Post-Notify Users** section, configure settings to notify the end user after deployment activity. Post-deployment notifications are especially important for deployments that require restarts because they can occur when users are working on endpoints.



If no user is logged into an endpoint, the endpoint restarts immediately after deployment completion even if a post-deployment notification is configured.

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9. Complete the **Software Rules Configuration** section.

   a. Click **Create Software Rule**.

   b. In the **Rule Details** section, select the software package operation. Only **Update** and **Install or Update** are supported in automatic deployment configurations.

   c. In the **Software** list, click  for each Predefined Software Gallery package to include in the configuration. You can filter packages by typing the platform, vendor name, or package title. When you add a software package, the package is removed from the list and added to the **Review Selected Software** section. You might add multiple software packages if the packages can share the same rule triggers. You can add up to 50 packages in a rule. You can add up to 1500 packages in all automatic deployment configurations.

   Consider the following:

   - Each software package can be used one time in an automatic deployment configuration. After a software package is added to a rule, you cannot create an additional rule with that package in the configuration. The software package appears in the list of packages with a . Hover over the icon to see the rule in which the package is used.
   - When you add a package, the package is automatically configured for auto-import. For more information about auto-import, see Import a software package from the Predefined Package Gallery on page 113. If you previously configured the package for auto import and enabled package cleanup, Deploy follows the number of versions that you entered to keep of the software package. If you did not previously enabled package cleanup, Deploy keeps three versions of a software package.
   - A package must complete the background initialization process before it can be deployed.
   - Some gallery packages are not displayed in the list and cannot be added to a rule. For more information, see Supported packages on page 135.

   d. Review the selected software. If necessary, click  to remove a package. Then click **Create Rule**.

   e. (Optional) Change the name of the rule. By default, the rule is named according to the package that you select. If multiple packages are in a rule, the default name is **New software rule - *number* packages**.

   f. (Optional) In the **Software** section, change the content set of the software package and add more software packages. An icon indicates the status of auto-import for each package.  indicates that the package is already automatically imported from the Predefined Package Gallery.  indicates that the package will be configured for auto-import into the content set when you create the rule.

   g. Select a **Rule Trigger** option. To automatically start a deployment based on confidence score and package age criteria, select **Use trigger criteria to automatically start a deployment**. To automatically start a deployment using the latest version of a package, select **Use latest available version of package to automatically start a deployment**.

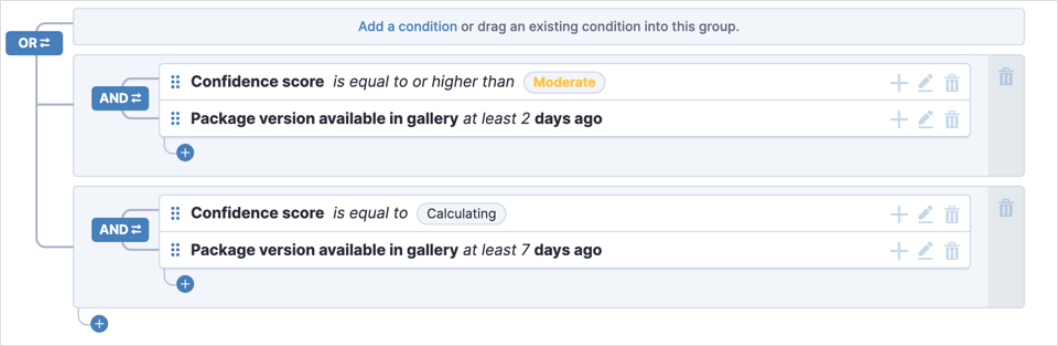
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h. If using trigger criteria, specify the trigger criteria.

- (Tanium Cloud) Trigger criteria consists of the following attributes and operators. The attributes can be joined by AND or OR operators.

Attribute	Operator	Value
Confidence score	Equal to or higher than	◦ Moderate ◦ High
	Equal to	◦ Calculating ◦ N/A
Package version available in gallery	At least	1-100 days ago

By default, two trigger groups joined by OR are configured.



- Select the number of days that the package version has been available in the gallery.

You can edit or delete the defaults and add new rules. If you use confidence score as a trigger criteria, review which gallery packages are assigned confidence scores. For more information, see Deploy overview on page 12.

i. Preview the packages that will be deployed based on the rule trigger.

j. If needed, create additional rules. You might create additional rules if the details in the **Configuration Settings** section apply to multiple software packages with different rule triggers. Click 🗑 to delete a rule.

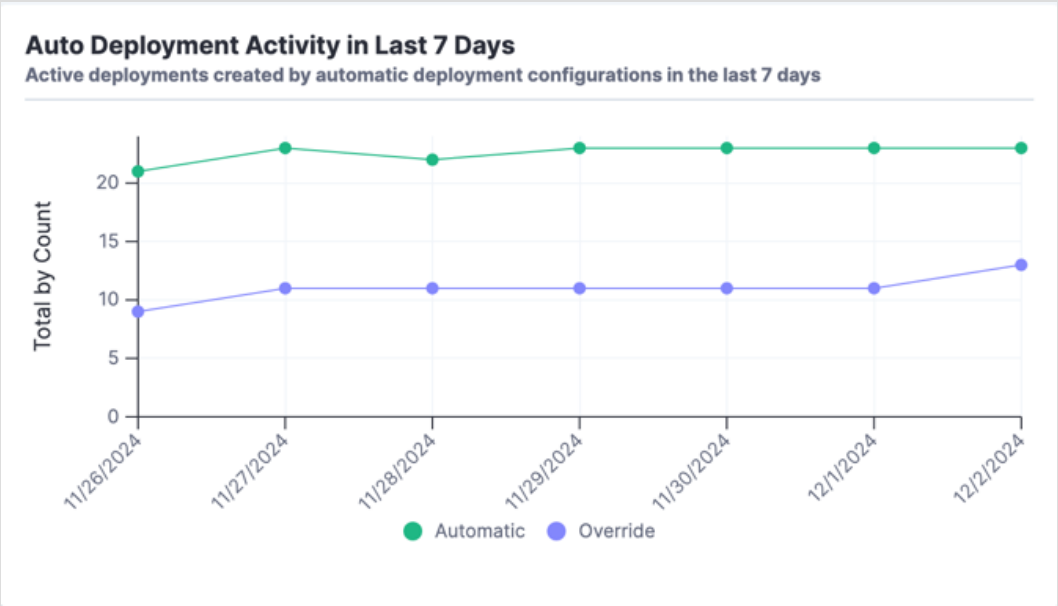
10. Click **Create**.

View automatic deployment statistics

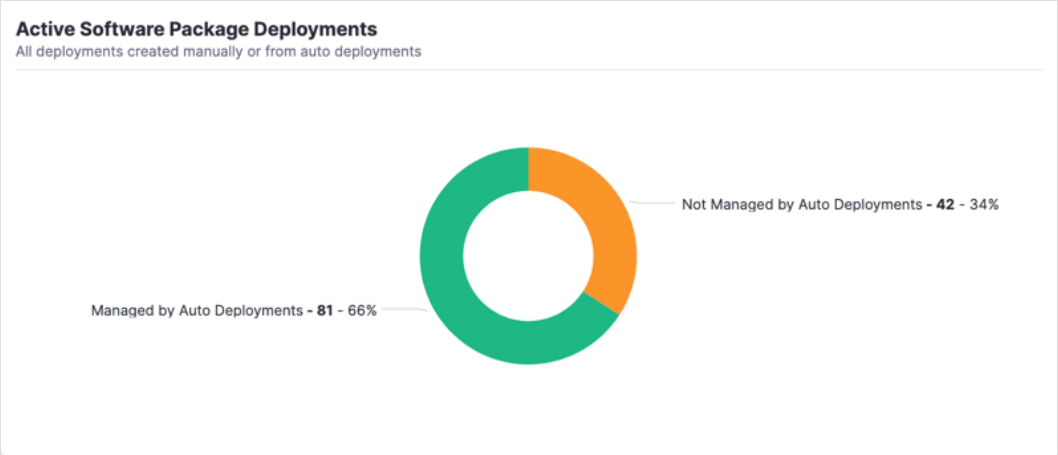
You can view high-level charts to understand how automatic deployments are working in your environment.

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1. From the Main menu, go to **Modules > Deploy > Deployment Automation > Activity**.
2. In the **Auto Deployment Activity in Last 7 Days** chart, view the number of active deployments created by automatic deployment configurations in the last seven days. The chart identifies the deployments created automatically using the rule trigger versus the deployments created when users overrode the rule trigger.



3. In the **Active Software Package Deployments** chart, view all active software package deployments in your environment. The chart identifies the manual traditional deployments versus deployments managed by automatic deployment configurations.



Review all automatic deployment configuration activity

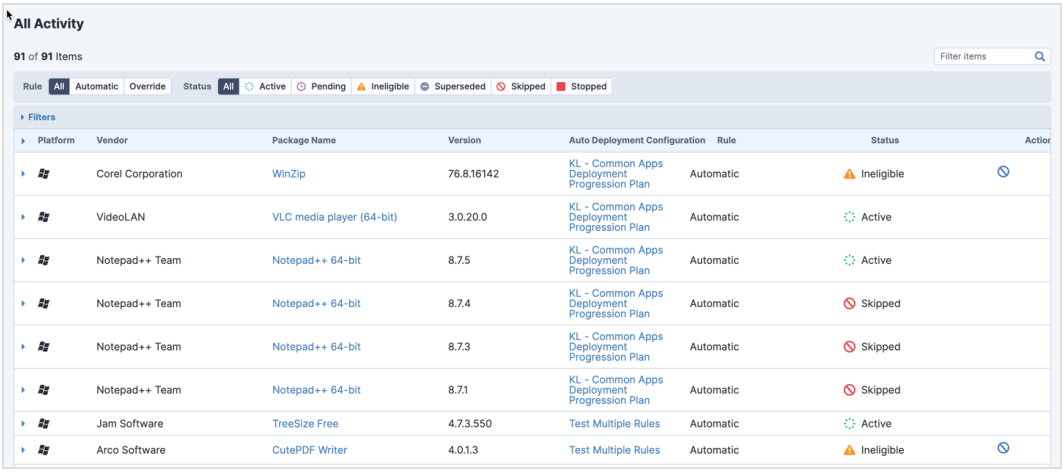
You can review the status and other details of deployments created from automatic deployment configurations for at least the last 30 days. If necessary, refresh the page to see the latest status.

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NOTE

You can also review an automatic deployment on the **Deployments** page. On the Deployments page, automatic deployments are prepended with **Auto Deployment: *Operation*** . For more information, see Review deployment summary on page 133.

1. From the Main menu, go to **Modules > Deploy > Deployment Automation > Activity**.
2. In the **All Activity** table, view the deployments.



To filter the rules based on rule or status, click the corresponding toggle. The table contains the following columns:

- **Platform**: Operating system of the Predefined Package Gallery package included in the deployment
- **Vendor**: Vendor of the Predefined Package Gallery package included in the deployment
- **Package Name**: Name of the Predefined Package Gallery package included in the deployment

  If you click a package in an active, superseded, or stopped deployment, you can review a snapshot of the software package at the time the deployment started. To edit the current version (not the snapshot) of the package, click **View Editable Package**. If you click a package in a pending or skipped deployment, you can edit the package by clicking **Edit**.

  NOTE

  The table does not include deleted packages.

- **Version**: Version of the Predefined Package Gallery package included in the deployment
- **Auto Deployment Configuration**: Automatic deployment configuration that created the deployment
- **Rule**:
  - **Automatic**: Deployment created by Tanium based on rule trigger
  - **Override**: Deployment created when a user overrode the rule trigger and manually deployed the deployment

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- **Status**: Status of the deployment

Status	Description
Active	Deployment is active because the rule trigger was met or you manually overrode the rule triggers to start the deployment
Pending	Deployment has not been created because the rule trigger criteria **Package version available in gallery** has not yet been met If the rule contains other rule trigger criteria, that criteria has been met or is optional. You can override the rule trigger and create the deployment.
Ineligible	Deployment has not been created because the confidence score rule trigger criteria has not yet been met You can override the rule trigger and create the deployment.
Superseded	Deployment with an older version of a software package that was stopped because a deployment with a newer version of the software package reached the final ring NOTE If a newer revision (or update) of a software package version is released, the older revision deployment continues unless you stop it.
Skipped	Deployment has not yet been created because of one of the following: ◦ Rule trigger was not met and you manually skipped it. ◦ Deployment with an older version of a software package was in a pending status and then a newer version of the package was included in an active deployment. For example, you might skip a pending deployment for a specific software version because you do not want to deploy it.
Stopped	Deployment was active and you stopped it For example, you might stop a deployment because a newer revision (or update) of a software package version is available.

- **Action**: Deploy or skip applicable software packages. For more information, see Use shortcuts to override or skip a deployment on page 152.

3. To review a specific software package, click the package name.
4. To review an active deployment, expand the row and click **View Deployment**. For more information, see Review deployment summary on page 133.
5. To review the configuration that created the deployment, click the configuration name. For more information, see Review an automatic deployment configuration on page 146.

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Review an automatic deployment configuration

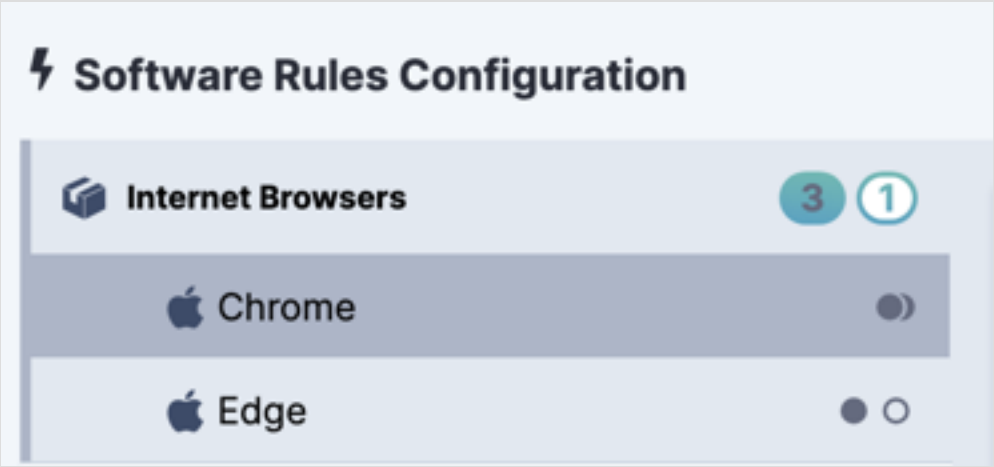
You can review an automatic deployment configuration to make changes or review the deployments that have been or will be created from the configuration.

1. From the Main menu, go to **Modules > Deploy > Deployment Automation > Automatic Deployment Configurations**.
2. View all configurations, including the number of active deployments in each configuration and the creation and update dates.
3. To review a specific configuration, click the configuration name **> Configuration Details**.
4. Expand and review the **Configuration Settings**. For more information about the settings, see Create an automatic deployment configuration on page 136.
5. In the **Software Rules Configuration** section, review and manage each deployment status section.
   a. Review the following:
      - Deployment status using the icons. For information, see Software rule deployment status icons on page 146.
      - Rule details, including the operation (or action), package name, platform, and vendor
      - Deployment rule trigger
      - Deployment status groups in more detail. For information about Deploy deployment status, see Review all automatic deployment configuration activity on page 143.
        Each deployment status section includes package name, version, confidence score, if the package was automatically deployed or a user overrode the rule trigger for a manual deployment, and rule trigger criteria status. For information about rule trigger criteria status, see Rule trigger criteria status on page 147. Active deployments include ring deployment status. For information about ring deployment status, Tanium Console User Guide: View all the details for a single deployment.
        An active or older available deployment might indicate that a revision is available for a software package. To deploy this revision, see Deploy a revision of a software package on page 149.
   b. To start or skip a pending deployment, see Override rule to start or skip an automatic deployment on page 151.

Software rule deployment status icons

The **Software Rules Configuration** section of an automatic deployment configuration includes icons to help you quickly understand the status of deployments created from software packages in the rules.

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Icon	Description
	Total number of active deployments in the software rule In this example, the number of active deployments is 3.
	Total number of pending deployments in the software rule In this example, the number of pending deployments is 1.
	One active deployment for the software package You can have multiple active deployments for a software package.
	One pending deployment for the software package You can have multiple pending deployments for a software package.
	No active or pending deployments for the software package

Rule trigger criteria status

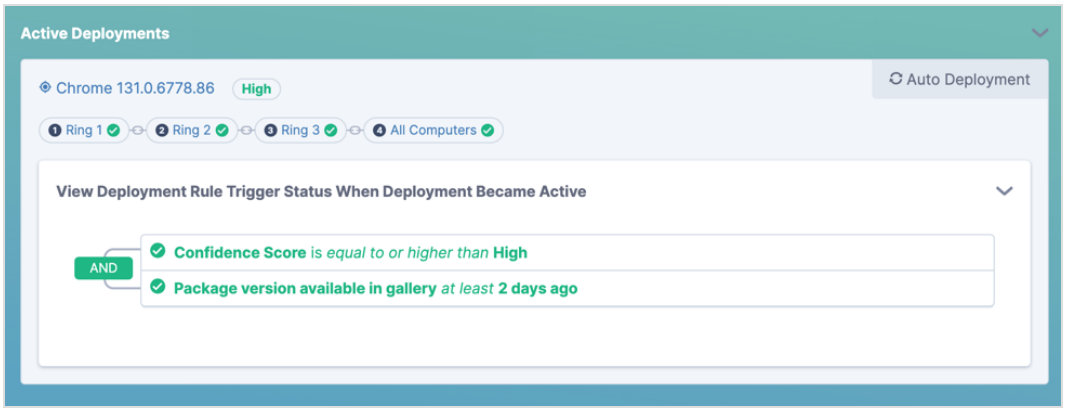
In the **Software Rules Configuration** section, you can review the status of rule trigger criteria for each applicable deployment. Expand **View Deployment Rule Trigger Status When Deployment Became Active** or **View Deployment Rule Trigger Status**. Criteria is color-coded to indicate status. In an active or skipped deployment, you view the state of the criteria when the deployment became active or was skipped. For other deployment statuses, you view the current state of the criteria.

Text color	Description
Green	Criteria is met
Bold black	**Package version available in gallery** criteria has not yet been met because not enough time has passed

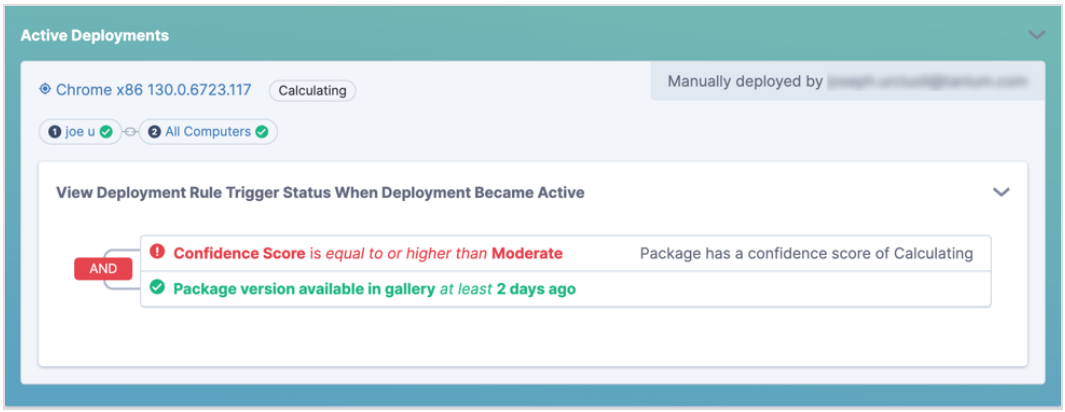
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Rule trigger criteria status examples

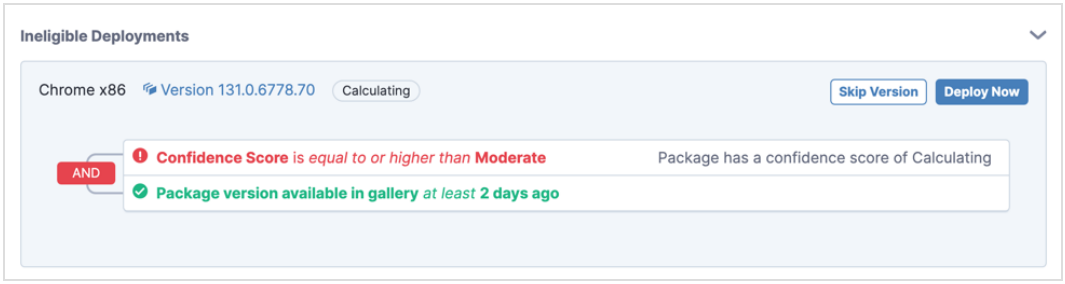
In the following active deployment, the deployment was automatically deployed because both criteria (green) were met.



In the following active deployment, a user manually overrode the rule trigger criteria and started the deployment. At the start of the deployment, the package age met the criteria (green) but the confidence score did not (red).

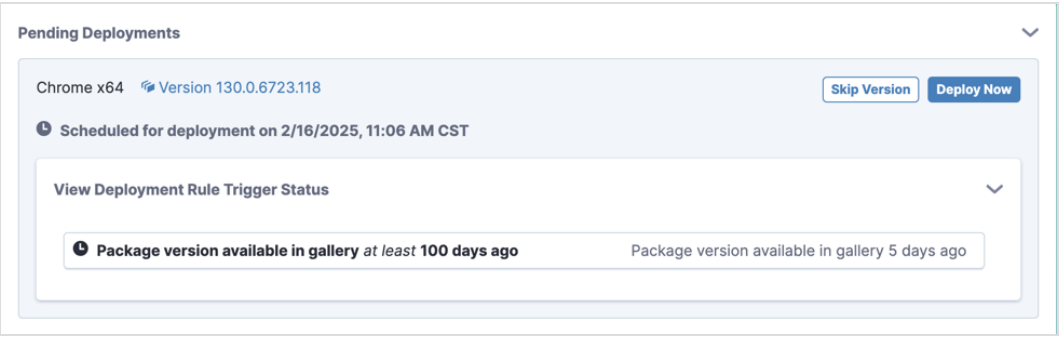


In the following example, the deployment is ineligible because the confidence score criteria has not been met (red).



In the following pending deployment, the package age criteria has not been met (bold black).

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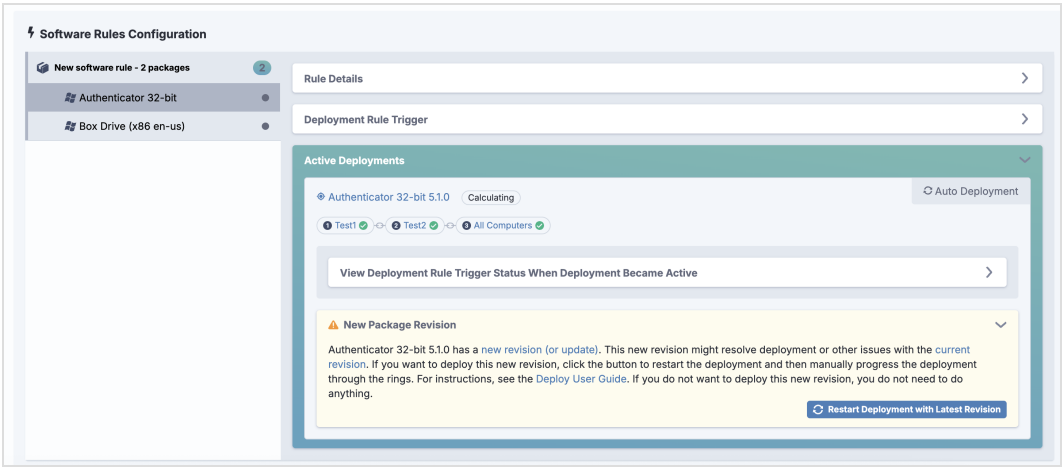


Deploy a revision of a software package

You can deploy a new revision of a software package version. For example, you might deploy a new revision to resolve an issue with the current revision of a specific package version.

If a new revision is available, Deploy displays a **New Package Revision** banner in the **Software Rules Configuration** section of the automatic deployment configuration.

1. From the Main menu, go to **Modules > Deploy > Deployment Automation > Automatic Deployment Configurations**.
2. Click the name of the configuration and review the **Software Rules Configuration** section.
3. In **Active Deployments** or **All Remaining Package Versions**, look for packages that have a banner with the text **New Package Revision**.



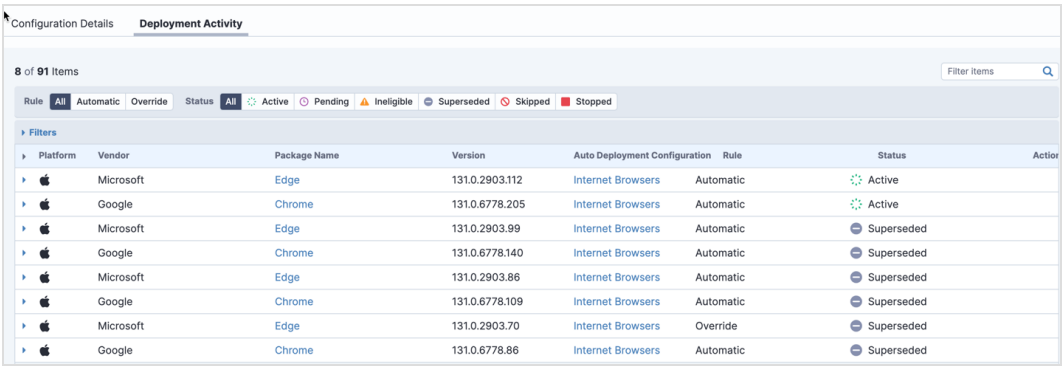
4. Expand the banner, and click **Restart Deployment with Latest Revision**.
5. (Optional) Manually progress the new deployment to the ring that the old deployment was in. For more information, see Tanium Console User Guide: Manually progress deployments through rings.

Review deployment activity of an automatic deployment configuration

Refresh the page to see the latest status.

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1. From the Main menu, go to **Modules > Deploy > Deployment Automation**.
2. Click **Automatic Deployment Configurations** and click an automatic deployment configuration.
3. In **Deployment Activity**, review deployments created from the automatic deployment configuration.



The table contains the following columns.

- **Platform**: Operating system of the Predefined Package Gallery package included in the deployment
- **Vendor**: Vendor of the Predefined Package Gallery package included in the deployment
- **Package Name**: Name of the Predefined Package Gallery package included in the deployment

  If you click a package in an active, superseded, or stopped deployment, you can review a snapshot of the software package at the time the deployment started. To edit the current version (not the snapshot) of the package, click **View Editable Package**. If you click a package in a pending or skipped deployment, you can edit the package by clicking **Edit**.

  NOTE

  The table does not include deleted packages.

- **Version**: Version of the Predefined Package Gallery package included in the deployment
- **Auto Deployment Configuration**: Automatic deployment configuration that created the deployment
- **Rule**:
  - **Automatic**: Deployment created by Tanium based on rule trigger
  - **Override**: Deployment created when a user overrode the rule trigger and manually deployed the deployment

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- **Status**: Status of the deployment

Status	Description
Active	Deployment is active because the rule trigger was met or you manually overrode the rule triggers to start the deployment
Pending	Deployment has not been created because the rule trigger criteria **Package version available in gallery** has not yet been met If the rule contains other rule trigger criteria, that criteria has been met or is optional. You can override the rule trigger and create the deployment.
Ineligible	Deployment has not been created because the confidence score rule trigger criteria has not yet been met You can override the rule trigger and create the deployment.
Superseded	Deployment with an older version of a software package that was stopped because a deployment with a newer version of the software package reached the final ring NOTE If a newer revision (or update) of a software package version is released, the older revision deployment continues unless you stop it.
Skipped	Deployment has not yet been created because of one of the following: ○ Rule trigger was not met and you manually skipped it. ○ Deployment with an older version of a software package was in a pending status and then a newer version of the package was included in an active deployment. For example, you might skip a pending deployment for a specific software version because you do not want to deploy it.
Stopped	Deployment was active and you stopped it For example, you might stop a deployment because a newer revision (or update) of a software package version is available.

- **Action**: Deploy or skip applicable software packages. For more information, see Use shortcuts to override or skip a deployment on page 152.

Override rule to start or skip an automatic deployment

If an automatic deployment is in a pending status, you can manually override the rule trigger to start or skip the deployment.

For example, you might manually start a deployment if the confidence score is High and you do not want to wait for the package age criteria to be reached. You might skip a deployment if you do not want to deploy a specific software package version.

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1. From the Main menu, go to **Modules > Deploy > Deployment Automation**.
2. In the **Activity** tab, click the configuration for the software package.
3. For each rule in the configuration, in the **Pending Deployments** section, click **Override & Deploy** or **Skip Version**.
   To deploy a package, the background initialization process must be complete and the package cannot be blocked by a proxy server. If the initialization process has not yet completed for a package, a message appears in the workbench.

   NOTE

   If you need to deploy a skipped package, create a manual deployment with the package. For more information, see Manually deploy a software package or bundle on page 127.

4. In the **All Remaining Package Versions** section, manage the deployment of older software package versions.

   NOTE

   This section includes the number of software package versions specified in the package cleanup value. If you previously configured the package for auto import and enabled package cleanup before adding it to a rule, Deploy follows the number of versions that you entered for package cleanup. (For more information, see Import a software package from the Predefined Package Gallery on page 113.) If you did not previously enable package cleanup, Deploy keeps three versions of a software package.

   - To deploy an older version of a software package, click **Override & Deploy**.
   - To deploy a software package that was previously deployed but there is a new revision to the software package, click **Redeploy**.

   NOTE

   If older and newer versions of the same software package are being deployed at the same time, the outcome of the deployments depends on which deployment reaches the endpoint first. If the endpoint first receives the older version deployment, the endpoint installs the older version. When the endpoint receives the newer version deployment, the endpoint installs the newer version. If the endpoint first receives the newer version deployment, the endpoint installs the newer version. When the endpoint receives the older version deployment, the older version deployment is marked as not applicable and the endpoint does not install the older version.

Use shortcuts to override or skip a deployment

You can quickly start or skip a pending or ineligible deployment in two locations:

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- In the **Needs Attention** tab, click the **Ineligible Deployments** filter, and click Override & Deploy or Skip Version.

  > NOTE
  >
  > The **Needs Attention** section on the **Activity** tab lists the number of ineligible deployments. Click the number to go to a filtered view of the **Needs Attention** tab.

- In the **All Activity** table on the **Activity** tab, click Override & Deploy or Skip Version.

  > NOTE
  >
  > If a software package does not have Override & Deploy, a newer version of the software package exists or has already been deployed. To deploy older versions of software, see Override rule to start or skip an automatic deployment on page 151.

Skip the wait intervals during deployment

In a deployment plan, the Wait interval is a required setting for each ring except the last ring. However, you can skip a wait interval that is pending or in progress in one or more rings during action deployment. Skipping the wait is useful if the action resolves an urgent incident for which haste is a higher priority than providing Tanium Clients more time to measure the action impacts. If you skip the wait, the Ring progression criteria evaluation starts. You can revert to applying the wait for a ring as long as the progression criteria evaluation has not started.

1. From the Main menu, go to **Modules > Deploy > Deployments** and click the **Name** of a deployment that includes a deployment plan.
2. Go to the **Deployment Plan** section, select the ring where you want to skip the wait, and perform one of the following sub-steps based on the **Wait *<interval>*** state:
   - (pending): Select **Skip** in the **Progression Status** section. As long as the wait is still pending, you can revert to applying the wait by clearing **Skip**.
   - (in progress): Click **Skip the Wait** in the message banner, review the information about the wait interval, and click **Skip the Wait** again.

For the sake of auditing, the **Wait *<interval>*** field on the Deployment Details page records the event with the message: `Skipped by <user name> on <date> at <time>`.

Manage an automatic deployment configuration

You can review notifications for automatic deployment configurations and edit and delete an automatic deployment configuration.

Review notifications for automatic deployment configurations and deployments

The Deploy workbench provides notifications in the **Deployment Automation Needs Attention** tab for automatic deployment configurations and deployments that need review. Review these notifications and make edits to the configurations, if necessary.

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NOTE

The **Needs Attention** section on the **Activity** tab also displays these notifications at a high level. Click the number in each category to go to a filtered view of the impacted configurations on the **Needs Attention** tab.

1. From the Main menu, go to **Modules > Deploy > Deployment Automation**.
2. Select the **Needs Attention** tab.

   The tab provides icons to quickly identify the severity level of the notifications.

Icon	Description
	Total number of configurations and deployments with a critical severity A critical issue must be resolved in order for the deployment to continue. In this example, the number is 2.
	Total number of deployments with a warning severity A warning issue should be reviewed but might not require action. In this example, the number is 21.

3. In the **Needs Attention** table, view the deployments.

   To filter the table based on notification type, click the corresponding toggle. The table contains the following columns:

   - **Severity**:
     - Critical: Configurations without a deployment plan or deployments with ring deployment issues
     - Warning: Deployments that are not active.
   - **Notification Type**: Issue that prompts the notification: **No Deployment Plan**, **No Active Deployment**, or **Ring Deployment Issue**
   - **Auto Deployment Configuration**: Automatic deployment configuration that created the deployment
   - **Software Rule**: Name of the software rule in the configuration
   - **Package Name**: Name of the Predefined Package Gallery package included in the deployment
4. To review a notification, expand the row and review the instructions or rule triggers. Edit the configuration, if necessary. Or click  to dismiss the notification. If you dismiss the notification, the notification is permanently deleted for all users in your organization.

   For more information about configurations, see Create an automatic deployment configuration on page 136. For more information on deploying or skipping a software package, see Use shortcuts to override or skip a deployment on page 152.

Edit automatic deployment configuration

You can edit an automatic deployment configuration, for example, to add an additional software package to a rule or to delete a rule. Or you might edit a configuration to select a new deployment plan if the originally selected deployment plan was deleted and you were notified of this deletion in the **Needs Attention** tab.

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When you edit an automatic deployment configuration, existing active deployments are not stopped or updated with the changes. If you delete a package from a rule, associated deployments that include the package are deleted and removed from the **All Activity** and specific automatic deployment configuration **Deployment Activity** tables.

1. From the Main menu, go to **Modules > Deploy > Deployment Automation**.
2. Select the **Automatic Deployment Configurations** tab.
3. Click the configuration name and click **Edit**. For information about the sections, see Create an automatic deployment configuration on page 136.

Delete automatic deployment configuration

You might delete an automatic deployment configuration that you no longer need. When you delete an automatic deployment configuration, existing active deployments are not stopped. Associated deployments created from the configuration are deleted and removed from the **All Activity** table.



If you delete an automatic deployment configuration, active deployments created from that automatic deployment configuration are classified as **Not Managed by Auto Deployments** in the **Active Software Package Deployments** chart in the **Activity** page.

1. From the Main menu, go to **Modules > Deploy > Deployment Automation**.
2. Select the **Automatic Deployment Configurations** tab.
3. Click the configuration name and click **Delete**.

Stop an automatic deployment

You can stop an automatic deployment through the **Deployment** page. For more information, see Stop a deployment on page 133.

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Managing maintenance windows

Maintenance windows control when deployments can run on targeted endpoints. A maintenance window is separate from the deployment start and end time. To run a deployment, a maintenance window must be open during the configured deployment time, or the deployment must have the **Override maintenance windows** option configured.

Deployments do not run outside of a maintenance window unless the **Override maintenance windows** option is selected in the deployment options. You must create at least one maintenance window for other deployments to run.

Maintenance window options

You can configure maintenance windows for the times that are best for your environment. Apply maintenance windows by enforcing them against computer groups. Multiple maintenance windows can affect a computer group, creating several times that deployment activity is permitted.

If you want . . .	After the date and time, select . . .
A one-time window	**Does Not Repeat**
A window that repeats every few days	**Daily** and the number of days between windows
A window that repeats on the same days of the week	**Weekly**, the number of weeks between windows, and which days of the week it opens on
A window that repeats on the same date each month	**Monthly**, the number of months between windows, and **Day of the Month**
A window that repeats on the same day each month	**Monthly**, the number of months between windows, and **Day of the Week**
A window that repeats on the same day of the year	**Yearly** and the number of years between windows



If a maintenance window does not repeat and it is the only one enforced against a computer group, deployments cannot run after the window closes.

Create a maintenance window

You can open multiple maintenance windows to customize when deployments run on your endpoints. For example, you can create windows that allow deployments during periods of low network activity or outside of core working hours.

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1. From the Main menu, go to **Modules > Deploy > Maintenance Windows** and then click **Create Window**.
2. Name the window, and select a content set.

   IMPORTANT

   Because of the complexities of managing permissions with multiple users, you cannot move a maintenance window from one content set to another after the initial assignment.

3. Configure the window options.

   a. (Optional) Select the recurrence time frame.
   If you chose to repeat the window, set additional options, such as how often the window repeats, day of the week, or day of the month.

   b. Use the date and time pickers to set the start and end time of the window.

      NOTE

      If a maintenance window repeats, it does not have an end date. You must remove the enforcement against the target computer groups to stop the maintenance window.

   c. Choose from the local time on the endpoint or UTC time.

   d. If you chose to repeat the window, set the duration of the window.

4. (Optional) Add targets.
   Select either or both of the following targeting methods and complete the fields as needed. If you select both targeting methods, then they are joined by an `OR` operator. If you use multiple targets, the maintenance window applies to endpoints that match any of the targets you specify.

   - **Select Computer Groups** provides a drop-down list of computer groups available to be managed in Deploy. Maintenance windows can only target management-rights enabled computer groups.

     NOTE

     Maintenance window computer groups must be assigned RBAC permissions for the user or group to appear in the list. For more information, see Tanium Console User Guide: RBAC overview.

   - **Set Targeting Criteria** lets you add any Tanium question filter as a target. When you use this option, you must also select a limiting group from the **Select Limiting Group** drop-down list of computer groups. For example, to target endpoints in the `192.168.1.0/24` subnet, you can type `Tanium Client IP Address starts with 192.168.1` in the **Filter Bar** or use the **Filter Builder** to select the **Tanium Client IP Address** sensor, and then apply the same filter. After that, set the `All Windows 10` computer group as the limiting group to make the deployment apply to all Windows 10 endpoints with an IP address that starts with `192.168.1`.

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IMPORTANT

The **Select Computer Groups** and **Set Targeting Criteria** options are joined by an `OR` operator. If you use multiple targets, the deployment applies to endpoints that match any of the targets you specify. If you use Set Targeting Criteria, you must also specify a limiting group that limits all targets. For example, if you select **All Laptops** as the target computer group, the deployment goes to all laptops managed by Deploy. However, if you also add `Tanium Client IP Address starts with 192.168.1` as the targeting criteria, and then select **All Windows 10** as the limiting group, then the deployment goes to all Windows 10 devices that are either laptops or have an IP address starting with `192.168.1`.

5. Click **Create Window**. Review any informational messages that appear and perform any updates that are necessary to the maintenance window. Click **Create Window**. Click **Yes** to confirm that you want to create a maintenance window.

Edit a maintenance window

Edit maintenance windows to change any of the window settings, such as start and end times or targeting criteria.

1. From the Main menu, go to **Modules > Deploy > Maintenance Windows**.
2. Click the name of a window and click **Edit**.
3. Make your changes and click **Update Window**.

Override a maintenance window

You can run a deployment outside of a maintenance window by configuring the **Override maintenance windows** option during a deployment. For more information, see Manually deploying software on page 125.

Delete a maintenance window

When you delete a maintenance window, the maintenance window is removed from all targeted endpoints.

1. From the Main menu, go to **Modules > Deploy > Maintenance Windows**.
2. Click the name of the window that you want to delete.
3. Click Delete .

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Managing End-User Self Service

With the Self Service Client application, you can publish software to Windows and macOS endpoints so that users can install software on their own without the need for IT to install them. To use the Self Service Client application on your Windows and macOS endpoints, you must create a Self Service profile in Deploy version 1.2 or later.

Before you begin

- Create or import one or more software packages. For more information, see Managing software on page 103.
- Configure the end-user interface options (logo, title, greeting text, additional language support, shortcut options, and enabling End-User Self Service). For more information, see End-User Notifications User Guide: Customizing the End-User Self Service interface.

Create a Self Service profile

1. From the Main menu, go to **Modules > Deploy > Self Service Profiles** and then click **Create Profile**.
2. Provide a name, add an optional description for the profile, and select the content set.

   Because of the complexities of managing permissions with multiple users, you cannot move a Self Service profile from one content set to another after the initial assignment.
3. Add targets.

   Select either or both of the following targeting methods and complete the fields as needed. If you select both targeting methods, then they are joined by an `OR` operator. If you use multiple targets, the profile applies to endpoints that match any of the targets you specify.

   - **Select Computer Groups** provides a list of computer groups available to be managed in Deploy.
   - **Set Targeting Criteria** lets you add any Tanium question filter as a target. When you use this option, you must also select a limiting computer group from **Select Limiting Group**. For example, to target endpoints in the `192.168.1.0/24` subnet, you can type `Tanium Client IP Address starts with 192.168.1` in the **Filter Bar** or use the **Filter Builder** to select the **Tanium Client IP Address** sensor, and then apply the same filter. After that, set the `All Windows 10` computer group as the limiting group to make the deployment apply to all Windows 10 endpoints with an IP address that starts with `192.168.1`.

     The **Select Computer Groups** and **Set Targeting Criteria** options are joined by an `OR` operator. If you use multiple targets, the deployment applies to endpoints that match any of the targets you specify. If you use Set Targeting Criteria, you must also specify a limiting group that limits all targets. For example, if you select **All Laptops** as the target computer group, the deployment goes to all laptops managed by Deploy. However, if you also add `Tanium Client IP Address starts`

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IMPORTANT

`with 192.168.1` as the targeting criteria, and then select **All Windows 10** as the limiting group, then the deployment goes to all Windows 10 devices that are either laptops or have an IP address starting with `192.168.1`.

4. (Optional) To use the latest version, select a bundle (not a software package). Deselect **Use Latest** if you want to add versions of software packages other than the latest.
5. To choose packages or bundles to include in the profile, click Add next to the available package or bundle.
   You can also select multiple packages or bundles and click Add to add multiple packages or bundles at the same time.
   a. Select whether the package or bundle is allowed to be installed, updated, or removed in the Self Service Client application.
      By default, bundles are allowed only to be installed. Some options cannot be deselected.
   b. If a package or bundle requires a restart of the endpoint, you can select **Restart Required**.
6. Click **Create Profile**.

View Self Service profiles

From the Main menu, go to **Modules > Deploy > Self Service Profiles** to view all Self Service profiles.

This page displays all currently defined profiles and basic information about those profiles. Profile names with the prepended text “Automatic Profile:” were created by an automatic deployment configuration.

You can expand the profile to view more detail about the profile, including the defined software packages and the allowed actions that are associated with each package. This expanded detail also shows the targeted groups or questions for the profile.

Edit a Self Service profile

To edit a Self Service profile created by a user, click the profile name and then click **Edit**.

To edit a self service profile created by an automatic deployment configuration:

1. Click the profile name and then click **Edit deployment configuration**. You are directed to the associated automatic deployment configuration.

   NOTE

   You must have the **Deploy Automatic Deployment Configuration write** permission.

2. Click **Edit** and then update the **End-User Self Service** section. For more information about the self service configuration options, see Create an automatic deployment configuration on page 136.
3. Click **Save**.

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Delete a Self Service profile

To delete a Self Service profile created by a user, click the profile name and then click Delete .

To delete a self service profile created by an automatic deployment configuration:

1. Click the profile name and then click **Edit deployment configuration**. You are directed to the associated automatic deployment configuration.

   NOTE

   You must have the **Deploy Automatic Deployment Configuration write** permission.

2. Click **Edit** and then set the **Self Service Profile Automation** option to **Do not automatically create a matching Self Service profile for this automatic deployment configuration**.
3. Click **Save**.

Track usage statistics

You can check the status of packages or bundles that are used in the Self Service Client application and track usage statistics of the Self Service Client application on endpoints.

From the Main menu, go to **Modules > Deploy > Deployments** and then click **Self Service**. This page displays all software packages and bundles that are included in Self Service profiles.

Use the Self Service Client application on endpoints

The Self Service Client application lets you install, update, or remove software applications on endpoints. You can customize the End-User Self Service interface with a custom name, support link, logo, and shortcut icon. For more information about customizing the Self Service Client interface, see End-User Notifications User Guide: Customizing the End-User Self Service interface.

The Self Service Client application includes the following tabs:

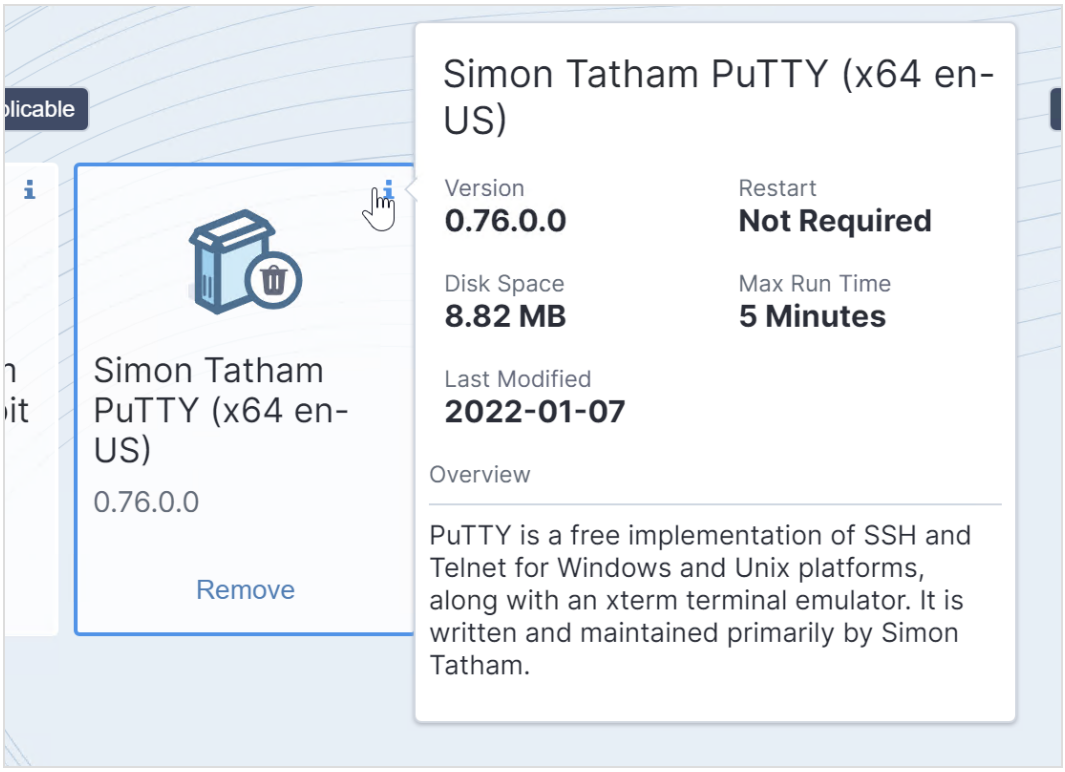
Catalog

On the **Catalog** tab, you can perform the following actions:

- See a list of all available software applications in the catalog. You can filter to show applications to be installed, removed, or updated, or to show only the applications available to the endpoint. You can also select a gallery or list view, and that view automatically adjusts based on the resolution set on the endpoint.
- See all active deployments, until the install, update, or removal is complete.
- Select additional languages that you have enabled in the End User Notifications settings. For more information, see End-User Notifications User Guide: Customizing the End-User Self Service interface.
- See additional details about each available package. Hover your mouse over the information icon for each package to see additional details about the package. You can configure those details, including the name of the package, on

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each software package.



For more information, see Create a software package on page 103.

Updates

On the **Updates** tab, you can see updates that are available for installed software applications.

History

On the **History** tab, you can see any completed activities that occurred on the system, as well as who initiated the activity. You can filter results by deployment type, as well as by time period.

Activity

On the **Activity** tab, you can see current and upcoming deployment activity. You can also select **Install** to start the deployment before its scheduled start time. However, you can hide upcoming deployment activity on the **Activity** tab by selecting **Hide from Self Service Client** when you configure the deployment. Similarly, if you do not select **Make Available Before Start Time** when you configure the deployment, then end users cannot start a deployment before its scheduled start time. For more information, see Manually deploy a software package or bundle on page 127.

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Maintaining Deploy

Perform regular maintenance tasks to ensure that Deploy successfully performs scheduled activities on all the targeted endpoints and does not overuse endpoint or network resources. If Deploy is not performing as expected, you might need to troubleshoot issues or change settings. For more information, see Troubleshooting Deploy on page 168 for related procedures.

Perform weekly maintenance

Monitor Deploy metrics and update the configurations, if necessary.

1. From the Main menu, go to **Modules > Trends > Boards**.
2. Click **IT Operations Metrics** to view the **Deploy Coverage**, **Endpoints Missing Software Updates Released Over 30 Days**, **Mean Time to Deploy Software**, and **Software Installed by Self Service User Request** panels in the **Deploy** section.
3. Monitor and troubleshoot Deploy coverage on page 164.
4. Monitor and troubleshoot endpoints missing software updates released over 30 days on page 165.
5. Monitor and troubleshoot mean time to deploy software on page 166.
6. Monitor and troubleshoot software installed by self service user request on page 166.

Perform monthly maintenance

Review and remediate Deploy coverage

1. From the Main menu, go to **Modules > Deploy > Overview**.
2. Go to the **Health** dashboard to verify that the Deploy process is running on all endpoints.
3. To investigate endpoints that are not running the process, click the number above **False** in the **Running Deploy** panel. The Tanium Server opens the **Deploy - Endpoint Deployment Process Running** report for the affected endpoints.
4. To investigate Deploy coverage issues, go to the **Summary** dashboard and click the number above **Needs Attention** in the **Deploy Coverage** panel. The Tanium Server opens the **Deploy - Coverage Status Details** report for the affected endpoints.
5. To troubleshoot issues related to the Deploy process or coverage, see Troubleshoot Deploy process not running on page 178.

Remove unused Deploy software packages

1. Go to **Modules > Deploy > Software**.
2. Review the **Software Packages** and delete unused packages.
   For example, delete software packages that are not the latest version or software that you are no longer using. For more information, see Managing software on page 103.

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Stop unneeded ongoing deployments

1. Go to **Modules > Deploy > Deployments > Active**.
2. Review the deployments and stop any deployments that are no longer needed.

Perform quarterly maintenance

If you install Deploy with default settings, it includes the **Tanium Deploy** action group, to which the **All Computers** computer group is assigned. If you changed computer group assignments for the **Tanium Deploy** action group, or if you created custom action groups for Deploy, review those action groups and, if necessary, update them. For example, if you discover that the Deploy tools are not installed on all the necessary endpoints, you might have to change the computer group assignments in the **Tanium Deploy** action group.

1. From the Main menu, go to **Administration > Actions > Action Groups**.
2. Use the filters to list only the groups that are for Deploy operations. For more information, see Tanium Console User Guide: View action groups.
   For example, if the custom action groups all have the string "Deploy" in their names, enter `Deploy` in the **Filter items** field.
3. Edit, create, or delete action groups if necessary to ensure Deploy targets the correct computer groups. For more information, see Tanium Console User Guide: Managing action groups.

Perform semi-annual maintenance

Review Deploy self-service profiles and, if necessary, update them to ensure that users have access to all the self-service capabilities:

1. From the Main menu, go to **Modules > Deploy > Self Service Profiles** and review the profiles. Expand  each profile and verify that all the operations are successful .
2. From the Deploy menu, go to **Deployments > Self Service** and review the **Failures** column.
3. Troubleshoot self-service installations if necessary to resolve issues. For more information, see Monitor and troubleshoot software installed by self service user request on page 166.
4. Edit, create, or delete self-service profiles if necessary to resolve issues. For more information, see Managing End-User Self Service on page 159.

Monitor and troubleshoot Deploy coverage

The following table lists contributing factors into why the Deploy coverage metric might report endpoints as **Needs Attention** or **Unsupported**, and corrective actions you can make.

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Contributing factor	Corrective action
Gaps in Deploy action group membership	Ensure that all endpoints that have a supported configuration for Deploy have the Deploy tools installed. These endpoints should be added to computer groups that can be members of the Deploy action group.
Gaps in End-User Notifications tools installations	Users cannot receive notifications for actions that are about to happen or configure the Self Service Client application. Ensure that all endpoints that have a supported configuration have the End-User Notifications tools installed. Ensure that any endpoint that is using the Self Service Client application has a properly configured and targeted End User Notification customization profile. Ensure that all other endpoints have a default fallback profile configured in case the tools need to be accessed.
Gaps in Trends metric reports	Ensure that all computer groups that are part of the Deploy action group are also part of the End-User Notifications action group.

Monitor and troubleshoot endpoints missing software updates released over 30 days

The following table lists contributing factors into why the endpoints missing software updates released over 30 days metric might be higher than expected, and corrective actions you can make.

Contributing factor	Corrective action
Gaps in maintenance window coverage	Verify that the **Computers with Enforced Maintenance Windows** chart in the **Health** section of the Deploy **Overview** page shows 100% enforcement. Ensure that endpoints have enough time to download and perform the installation. Use the **Download immediately** option for future deployments so that endpoints are ready when the deployment start time begins. If your business needs require a hard stop, set your maintenance window to end 30 minutes prior to that hard stop to ensure that deployments complete in time to adhere to business needs.
Software is not installing due to maintenance windows being too restrictive	Ensure that maintenance windows properly overlap with deployment times and change control process timelines. Use End-User Notifications to provide users with options to postpone actions, such as installations or updates. Use the **Make Available Before Start Time** option for self service deployments that are set for the future.

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Contributing factor	Corrective action
Software hits a timeout or does not install properly	Ensure that you have a supported silent installation command-line option that is supported by the vendor. Consult with the vendor or developer of the software for the best practices to install the software.
The installer does not have a silent installation option	Use a third-party repackaging solution, such as AdminStudio or InstallShield, that offer the ability to assist in making a custom installer. Request that the vendor create a proper silent installer for larger deployments.

Monitor and troubleshoot mean time to deploy software

The following table lists contributing factors into why the mean time to deploy software metric might be higher than expected, and corrective actions you can make.

Contributing factor	Corrective action
Files are not uploading to a package properly	(Windows) Ensure that the permissions are properly set to remote Windows file servers. (Appliance) Ensure that you set up the Module Server TDL to access the shares. For more information, see Tanium Appliance User Guide: Add an authentication user for TDownloader.
Packages are not downloading from the Predefined Package Gallery	Ensure that the Tanium Server can download the packages from the remote URL. Check any proxies, firewalls, or network connectivity. Ensure that your TDL settings are correct. For more information, see Maintaining Deploy on page 163.
It takes too long to test the software and get it ready for production	Reevaluate your process for software testing: • Are there any gaps or delays in the process? • Are there too many points of contact for reporting issues? • Are endpoints being tested that may not be relevant for the deployment? Evaluate conditions that surround problem resolution and retesting. Hold people accountable to timelines. For endpoints that might exhibit compatibility or testing issues, consider a shared solution, such as Terminal, Remote Desktop Server, Citrix XenApp, or App-V.

Monitor and troubleshoot software installed by self service user request

The following table lists contributing factors into why the software installed by self service user request metric might be different than expected, and corrective actions you can make.

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Contributing factor	Corrective action
Help desk spends too much time installing software for users	Use self service options for software that is pre-approved, to ease the load on your help desk. Applications that make the best candidates for self service are: • Freeware (example: Chrome or Firefox) • Software that is available for all systems, but are discretionary by business needs (example: Zoom, Notepad++, or specific line of business applications)
Users install unapproved software	Use self service options, but limit the applications that the user has access to, by default. Consider locking down administrative permissions on the endpoints, if available. For software that might require additional approvals, such as software that requires a purchased license, target only endpoints that are approved to install that software.

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Troubleshooting Deploy

If Deploy is not performing as expected, you might need to do some troubleshooting or change settings.

Collect a troubleshooting package

For your own review or to assist support, you can compile Deploy logs and files that are relevant for troubleshooting. The ZIP file is also known as a support bundle.

1. Get the Deploy log.
   a. From the Main menu, go to **Modules > Deploy > Overview** page and click Help.
   b. Click the **Support** tab and click **Collect**.
   c. When the **Status:** is updated, click **Download**.

   The log ZIP file might take a few moments to download. The files have a timestamp with a deploy-support-*YYYY-MM-DD*T*HH-MM-SS.mmm*Z format.
2. (Optional) Collect Deploy troubleshooting information from endpoints on page 169.

View job logs to troubleshoot `job failed` errors

You can download job logs to troubleshoot "job failed" errors.

1. From the Main menu, go to **Modules > Deploy > Overview** page and click Help.
2. Click the **Support** tab and click **View Job Status**.
3. In the **Job Detail** window, click **Download Logs** to download a `job-logs.txt` file with more details about recent jobs.

Download audit log

You can download an audit log for a single object (for example, a deployment) or multiple objects (for example, all deployments). The audit log contains all creation, modification, and deletion events for the object or objects. For example, you can download the audit log for a deployment to view the details of when it was stopped.

1. Go to a Deploy page for which you want to download logs.
2. If available, click Options **> Collect <*Object*> Audit Logs**. The system collects all objects and prepares the log for download. After collection is complete, the **Download** button is enabled.

   NOTE

   The **Collect** option is available on list pages (such as the Deployments List page) but not available on details pages (such as a Deployment Details page).

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3. Click Options > **Download <*Object*> Audit Logs**. The CSV file is downloaded to your default downloads folder.

Collect Deploy troubleshooting information from endpoints

You can collect and review endpoint artifacts to troubleshoot Deploy issues on endpoints. To collect artifacts from an endpoint, use Client Management to generate an Endpoint Must Gather for select files in the **Software Manager** and **Core** domains. For more information on generating an Endpoint Must Gather, see Tanium Client Management User Guide: Collect troubleshooting information from endpoints.

The following table describes the files to select in the **Software Manager** and **Core** domains.

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Gather domain	Gather name	File and description
Software Manager	**Deploy Logs**	• `Tanium Client\Tools\SoftwareManagement\logs\software-management.log` Primary endpoint logs for Deploy that contain information needed to troubleshoot most issues. The files contain all logging output of the long-running Deploy process. The active log is `software-management.log`. Inactive logs are `software-management[1-50].log.7z`. Use 7-Zip to extract the inactive logs. • `Tanium Client\Tools\SoftwareManagement\logs\subprocess.log` Standard output and record of each subprocess that Deploy launched. Subprocesses are launched for each command step in a software package and end-user notification. • `Tanium Client\Tools\SoftwareManagement\logs\Install-ClickToRunOffice.log` Detailed logging information from the Microsoft Office Click-to-Run packages in the Predefined Package Gallery. • `Tanium Client\Tools\SoftwareManagement\logs\Panther` Windows setup logs copied during Windows Inplace Upgrade Phase 3.

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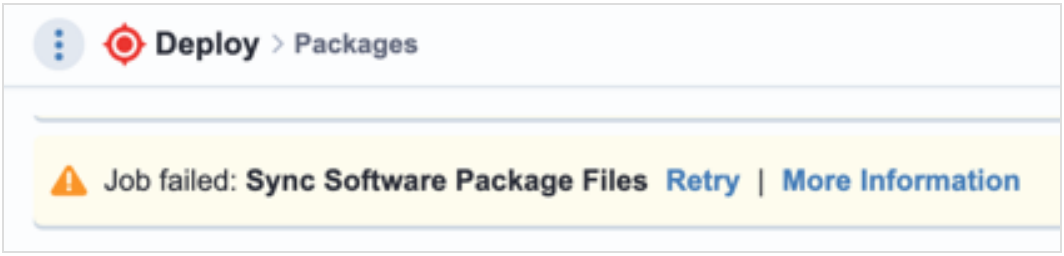
Gather domain	Gather name	File and description
	Deploy Database	• `Tanium Client\Tools\SoftwareManagement\data\software-management.db` • `Tanium Client\Tools\SoftwareManagement\data\software-management.shm` • `Tanium Client\Tools\SoftwareManagement\data\software-management.db-shm` Detailed information about the state of deployments, software packages, maintenance windows, Self Service profiles, and software bundles. The files are needed when troubleshooting endpoint issues.
	Deploy Windows Upgrade - PreCache.txt	`%temp%\Win10IPU_PreCache.txt` Log for Windows in-place upgrade Phase 1 Pre-Cache script. This file is used for troubleshooting Phase 1 Pre-Cache of the Windows upgrade process.
	Deploy Windows Upgrade - CompatScan.txt	`%temp%\Win10IPU_CompatScan.txt` Log for Windows in-place upgrade Phases 1 and 2 compatibility scans script. This file is used for troubleshooting Phases 1 and 2 of the Windows upgrade process.
	Deploy Windows Upgrade - Upgrade.txt	`%temp%\Win10IPU_Upgrade.txt` Log for Windows in-place upgrade Phase 3 Windows Upgrade script. This file is used for troubleshooting Phase 3 Windows Upgrade of the Windows upgrade process.
	Deploy PreProcessed	`Tanium Client\Tools\SoftwareManagement\data\preprocessed` Results for Deploy sensors, for example, `deploy-deployments.txt` for the **Deploy - Deployments** sensor. The Deploy process writes the files to enable fast retrieval by Deploy sensors. The files are generally only useful for troubleshooting unusual answers to one or more Deploy sensors.
	Deploy Endpoint Notification Tools	`%localappdata%\tanium-end-user-self-service\euss.log` Log for the Self-Service Client that is specific to the user logged into an endpoint, for example, `C:\Users\Administrator\AppData\Local\tanium-end-user-self-service\euss.log`. The file might be useful for troubleshooting End-User Self Service.
Core	**Tanium Client Logs**	`Tanium Client\Logs\clientextensions[0-9].txt` Log for most Tanium Client extensions, including the Software Manager extension (`swmgr-cx`) that starts the long-running Deploy process. The file is generally needed when troubleshooting installation of tools or the starting of the Deploy process.

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`Job failed: Sync Software Package Files` error

The `Job failed: Sync Software Package Files` appears in the Deploy workbench if a software package did not synchronize properly. The most common reason for the error is that Deploy cannot cache remote files associated with a package. However, the error can appear for a variety of reasons.

1. Review the information available for the error in the Deploy workbench. If the `Job failed: Sync Software Package Files` error banner includes **More Information**, click the link and review the information.

   You can also retry the synchronization or export, copy, or download the information on this page.

2. Review the logs to identify the issue for the error. For more information, see View job logs to troubleshoot job failed errors on page 168.

3. Review Common package synchronization failure issues and resolutions on page 172 for corrective actions.

Common package synchronization failure issues and resolutions

The following table explains different issues that can prevent a software package from syncing properly.

Issue	Explanation and corrective action

Error message:
 	
Could not cache some items for package "{package}" from {url}, error: **The file is inaccessible. Please manually upload this file or try again later.**
	Tanium cannot access the URL.
	
	• The Tanium Server cannot access the URL for a remote file in a Predefined Gallery package because the URL is blocked by a firewall or proxy. Try one of the following solutions:
	  ◦ Manually add inaccessible files to the affected software package. For more information, see Deploy cannot access the origin of a software package file on page 173.
	  ◦ Review the Tanium Server TDL log for diagnostic information. For information about accessing the Tanium Server TDL log, see Tanium Appliance User Guide: Review Tanium Core Platform logs.
	• When you import a custom package, the Tanium Module Server cannot access the URL for the package because the URL is blocked by a firewall or proxy, or it is inaccessible for another reason. Try one of the following solutions:
	  ◦ Manually add inaccessible files to the affected software package. For more information, see Deploy cannot access the origin of a software package file on page 173.
	  ◦ Review the Tanium Module Server TDL log for diagnostic information. For information about accessing the Tanium Server TDL log, see Collect a troubleshooting package on page 168.

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Issue	Explanation and corrective action
Error message: Could not cache some items for package "{package}" from {url}, error: **File hashes do not match. Re-import the package, check for new versions, or manually upload the file**	This issue is usually caused by a recent release of a new version of the software. Compare the software package version to the latest version published by the vendor, and then try one of the following solutions: • If the version is the same, manually add affected files to the software package. • If the vendor has published a new version, edit the package and update the new version information before manually adding affected files to the software package. Alternatively, wait for a new software package to be published to the Predefined Package Gallery. • For information about manually adding files to a software package, see Deploy cannot access the origin of a software package file on page 173.
A different problem is preventing Deploy from synchronizing the software package	This issue can sometimes be caused by an error with the Tanium Server or with the Endpoint Configuration Service. Review the job logs for basic diagnostic information. Collect a support bundle and review the Deploy service log and Module Server or Tanium Server TDL logs for additional diagnostic information. For more information, see Collect a troubleshooting package on page 168 and Tanium Appliance User Guide: Review Tanium Core Platform logs.

Deploy cannot access the origin of a software package file

If Deploy cannot access the origin of a software package file, you can follow these basic steps to edit the package and manually add any inaccessible files:

Before editing the package and adding inaccessible files, check redirects to confirm that the software package file is not hosted on a blocked server. To watch for redirects from a vendor, open Developer Tools in your browser, paste the software vendor's download link into the address bar, and monitor the requests in the **Network** tab.

1. Download the inaccessible remote file to your computer.
2. Edit the software package.
3. If necessary, expand the **Package Files** section, then click **Add Package Files > Local File** to upload the file from Step 1 to the software package.
4. Ensure that the new package file uses the same value for the **File Display Name** field as the original package file.
5. Delete the original package file and save the package.

For more information about configuring software packages, see Create a software package on page 103.

End user notifications are not displayed or endpoints have other issues

End user notifications are supported for Windows and macOS endpoints only. If end user notifications are not being displayed on the endpoints or the endpoints have other issues (for example, their statuses are **Needs Attention**):

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1. Verify that the Tanium End-User Notifications solution is installed. For more information, see Tanium End-User Notifications User Guide: Installing End-User Notifications.
2. Ask the question: `Get Endpoint Configuration - Tools Status from all machines` to check if your endpoints have the end user notification tools.
3. Verify that any security software exclusions include the `\Tanium\Tanium End User Notification Tools` directory. For more information, see Security exclusions on page 34.
4. Uninstall the End-User Notifications tools on the endpoints. For more information, see Tanium End-User Notifications User Guide: Remove End-User Notifications tools from endpoints. Then wait up to 10 minutes for the tools to automatically reinstall.

   You can also reinstall the End-User Notifications tools with the **Endpoint Configuration - Reinstall Tool** package.

Endpoint does not have toolset version that supports ring deployments

To be included in Deploy deployments with a ring deployment plan, endpoints must have Endpoint Toolset version 2.10 or later.

1. Confirm that Endpoint Toolset 2.10 or later is promoted to all rings in the ring deployment plan. For more information, see Tanium Endpoint Configuration User Guide: Manage and promote toolset versions in the upgrade rings.
2. To identify the remaining endpoints that do not have Software Management 10.3.*x* or later, ask the following question in Interact:
   `Get Endpoint Configuration - Change Management Status having Endpoint Configuration - Change Management Status:Toolset Manifest Version?type=Version < 2.10 from all machines`
3. Resolve the issues on these endpoints to get the latest tools installed. For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or client extensions.

(Windows) Endpoint does not have a toolset version that supports the Installed Application Type attribute

When the **Installed Application Name: Type** or the **Installed Application Version: Type** attribute is defined in a Windows software package applicability rule, the following warning message appears in the workbench:

```
The selected Installed Application Type values require endpoints to be on Toolset version 2.12 or later. To maintain compatibility with older tools, edit the attribute and select exactly: Type equals any of 32-bit, HKLM, 64-bit HKLM, Active User.
```

Endpoints that do not meet the Toolset version requirements return **False** when evaluated. You can either edit the attribute to maintain compatibility with older tools or complete the following steps to get the latest tools installed on the endpoints:

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1. In Interact, ask a question to identify the endpoints that do not meet the minimum Toolset version required. For example: `Get Computer Name and Endpoint Configuration - Change Management Status having Endpoint Configuration - Change Management Status:Toolset Manifest Version?type=Version < 2.12 from all machines`
2. Resolve the issues on these endpoints to get the latest tools installed. For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or client extensions.

For more information about other applicability rules that require a minimum Toolset version, see Reference: Applicability rule syntax on page 246.

(macOS) Endpoint does not have a toolset version that supports the Installed Application Path attribute

When the **Installed Application Name: Path** or the **Installed Application Version: Path** attribute is defined in a macOS software package applicability rule, the following warning message appears in the workbench:

```
The selected Installed Application Path values require endpoints to be on Toolset version 2.15 or later. To maintain compatibility with older tools, clear the Path value.
```

Endpoints that do not meet the Toolset version requirements return **False** when evaluated. You can either edit the attribute to maintain compatibility with older tools or complete the following steps to get the latest tools installed on the endpoints:

1. In Interact, ask a question to identify the endpoints that do not meet the minimum Toolset version required. For example: `Get Computer Name and Endpoint Configuration - Change Management Status having Endpoint Configuration - Change Management Status:Toolset Manifest Version?type=Version < 2.15 from all machines`
2. Resolve the issues on these endpoints to get the latest tools installed. For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or client extensions.

For more information about other applicability rules that require a minimum Toolset version, see Reference: Applicability rule syntax on page 246.

Endpoint does not have a toolset version that supports the Folder Contents applicability rule

When the **Folder Contents** attribute is defined in a software package applicability rule, the following warning message appears in the workbench:

```
The selected Folder Contents Applicability Rule require endpoints to be on Toolset version 2.18 or later.
```

Endpoints that do not meet the Toolset version requirements return **False** when evaluated. Complete the following steps to get the latest tools installed on the endpoints:

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1. In Interact, ask a question to identify the endpoints that do not meet the minimum Toolset version required. For example: `Get Computer Name and Endpoint Configuration - Change Management Status having Endpoint Configuration - Change Management Status:Toolset Manifest Version?type=Version < 2.18 from all machines`
2. Resolve the issues on these endpoints to get the latest tools installed. For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or client extensions.

For more information about other applicability rules that require a minimum Toolset version, see Reference: Applicability rule syntax on page 246.

Deployment fails with EUN error on endpoint

If your deployment is configured for a pre-notification, but the endpoint does not have the End-User Notifications tools installed, the deployment fails and triggers the following error: `EunIncompatible: EUN is not installed or the version installed is too old.` If you receive this error, ensure that the endpoint has a supported configuration and has the End-User Notifications tools installed. For more information, see Tanium End-User Notifications User Guide: Configuring End-User Notifications.

Deployment fails on endpoint

If a deployment fails on an endpoint, see the Manually deploying software on page 125 status group for troubleshooting information.

Deploy workbench slowly loads pages

If the Deploy workbench slowly loads pages, confirm that you have enabled the **Inactive Deployments Removal** option to remove old inactive deployments. The deployment cleanup helps improve the performance of the Deploy workbench. For more information, see Configure module settings on page 98.

Deploy user does not have management rights for an object

If a Deploy user tries to import, create, or edit a deployed software package and the user does not have management rights for at least one computer or limiting group target specified in the deployment, the user receives the `User does not have management rights for this object` error. This error also appears if a user is making changes to a software package that becomes the **Latest Applicable** version because of the deployed bundle setting,

To resolve this error, assign management rights to the user that include all groups to which this software package is deployed or assign the **Deploy Software Package Write Management Rights override** permission to the user's role. For more information, see Tanium Console User Guide: Manage role permissions and Tanium Console User Guide: Computer management groups.

Troubleshoot Deploy coverage status

Use the **Deploy - Coverage Status Details** sensor to identify and troubleshoot Deploy coverage issues on endpoints. The following table lists problematic statuses and corrective actions.

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Status	Details	Corrective Action
Need Attention	Has Scan Errors	1. Drill down and ask `Get Deploy - Scan Errors`. Resolve any conditions responsible for scan errors. 2. If you cannot resolve the errors or the question results return `No Scan Errors`, collect Deploy Logs from the endpoint. Review the Software Management logs for more detailed information. Search for the term `Running scan` to find the beginning of a software package applicability scan.
	Deploy Process not running	Troubleshoot Deploy process not running on page 178
	Stale Scan Results	1. Ensure the endpoint is not action locked or, if it is action locked, confirm that Deploy settings are configured to allow scanning on action-locked endpoints. For more information, see Configure module settings on page 98. For more information about action locks, see Tanium Console User Guide: Managing action locks. 2. Collect Deploy Logs from the endpoint to review the Software Management logs. This status most likely indicates Deploy cannot begin software package applicability scans. Search for the term `Running scan` to find the beginning of a software package applicability scan. Search for the term `traceback` to find errors that might prevent the scan from starting.
	No Longer Targeted	The endpoint is not included in the targeting of the Deploy action group. If you want the endpoint in the Deploy action group, configure the action group to include a computer group to which this endpoint is a member. If you do not want the endpoint in the Deploy action group, uninstall Deploy tools from this endpoint to remove this status. For more information about action groups, see Tanium Console User Guide: Managing action groups.
	Unexpected Tools Error	Troubleshoot issues with Deploy tools on endpoints on page 179.
The system cannot find the path specified.		The endpoint tools are missing a file even though tools are installed. 1. Uninstall the `Software Management` tool and wait for it to be automatically reinstalled. For more information, see Remove Deploy artifacts from endpoints on page 183. 2. Ensure security software is configured to exclude the `TPython` process. For more information, see Security exclusions on page 34. 3. Troubleshoot issues with Deploy tools on endpoints on page 179.

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Status	Details	Corrective Action
TPython.exe is not recognized as an internal or external command, operable program or batch file.		The `python38` tool is not installed or the `TPython.exe` binary was deleted or is otherwise inaccessible. 1. Uninstall the `python38` tool and wait for it to be automatically reinstalled. For more information, see Remove Deploy artifacts from endpoints on page 183. 2. Ensure security software is configured to exclude the `TPython` process. For more information, see Security exclusions on page 34. 3. Troubleshoot issues with Deploy tools on endpoints on page 179.
Unsupported		For endpoint requirements, see Endpoints on page 31.

Troubleshoot Deploy process not running

The **Running Deploy** chart on the **Overview** page or the **Deploy - Is Process Running** sensor report endpoints on which the Deploy process is not running.

The following table explains different issues that can prevent the Deploy process from running.

Issue	Explanation and corrective action
The endpoint does not support Deploy.	1. Ask the question `Get Deploy - Coverage Status from all machines` to identify the endpoints on which Deploy is not supported. 2. Review the Deploy requirements and make necessary changes.
Deploy tools are not installed on the endpoint.	Review the information in Troubleshoot issues with Deploy tools on endpoints on page 179.
The endpoint is not in the Deploy action group.	The endpoint must be in a computer group in the Deploy action group to have Endpoint Configuration install Deploy tools and swmgr-cx start the Deploy process. Review the computer groups in the Deploy action group. For more information, see Configure the Deploy action group on page 95.

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Issue	Explanation and corrective action
The Deploy process is not running for another reason.	Review `software-management.log` and `extensions0.txt` log files. For information on how to collect the logs, see Collect Deploy troubleshooting information from endpoints on page 169. • If `software-management` log files do not exist or do not have any recent activity, Troubleshoot issues with Deploy tools on endpoints on page 179. If all tools are installed, search `extensions0.txt` for `swmgr` to identify problems with Software Management. • The logs might indicate the Deploy process starts and then quickly exits. Search the logs for `starting up` to determine if the process is consistently starting up one to two times per minute. If so, the log lines immediately before the `starting up` line might indicate why the process is terminating. • If the Deploy process is crashing or terminating itself, the problem might be caused by an issue with the Deploy tools or database. As a potential corrective action, perform a hard uninstallation of the affected tool and its unreferenced dependencies. For more information, see Remove Deploy tools from endpoints. For issues that persist after uninstalling and reinstalling affected tools, investigate possible interference from security software. Ensure you have configured endpoint security exclusions. On an affected Windows endpoint to which you have console access, collect an unfiltered Microsoft Process Monitor capture of at least 30 seconds of activity to provide to Tanium Support. For more information, see Microsoft documentation: Process Monitor. If you are unable to resolve the issues, Contact Tanium Support on page 191 and include all collected artifacts.

Troubleshoot issues with Deploy tools on endpoints

Endpoint Configuration installs the following Deploy tools on endpoints: **Deploy**, **Software Management**, **python38**, and **swmgr-cx**. Additionally, **Deploy - Euss Tool Wrapper** installs **Tanium EUSS**.

To troubleshoot issues with Deploy tools, review sensor results.

1. Confirm that the endpoints have the latest versions of the tools. For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or client extensions. For more information about Deploy tools, see Reference: Deploy endpoint tools on page 244.
2. Ask the question `Get Endpoint Configuration - Tools Status Details matches "(swmgr-cx|Software Management|Deploy|python38|Tanium EUSS).*" from all machines with Deploy - Is Process Running equals False`.
3. Review the results for the Deploy tools and complete the corrective action.

Status	Explanation and corrective action
Not Installed	Review the information in The endpoint is not in the Deploy action group.
Blocked	Review the information in Tanium Endpoint Configuration User Guide: Block or unblock tools from installing on an endpoint.

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Status	Explanation and corrective action
Error - awaiting automatic retry	• Review the results In the **Failure Step** column, for example, `check available disk space`. Resolve any fixable issue and then reinstall the tool or wait up to 24 hours for automatic reinstallation. For more information, see Tanium Endpoint Configuration User Guide: Reinstall tools installed by Endpoint Configuration. • Remediate the issues for results in the **Failing Dependencies** column. For example, if swmgr-cx is a failing dependency, find the swmgr-cx result in the table and review the **Failure Step** column to understand why it is not installing. • Drill down on any tool that contains an error other than **Failing Dependencies** and ask `Is Windows`. Deploy an action to perform a hard uninstallation of the failing tool. For more information, see Remove Deploy tools from endpoints. • If errors persist after taking corrective action, use Client Management to collect **Config**, **Core**, and **Software Manager** domain bundles from at least one endpoint for each error. For more information, see Tanium Client Management User Guide: Collect troubleshooting information from endpoints. Then Contact Tanium Support on page 191 and include the collected files.

No software in the Predefined Package Gallery

After you import Deploy 1.1 or later, you must initialize the endpoints again. After the endpoints are initialized, it might take up to one hour to see the software in the **Predefined Package Gallery** page. You can also restart the Tanium Deploy service to reduce this time constraint.

If you still do not see any software in the **Predefined Package Gallery** page:

1. From the Main menu, go to **Administration > Content > Packages**.
2. Search for the `Deploy - Software Package Gallery` package.
3. Verify that this package is cached.
    a. Verify that the **Size** column does not list `Pending`.
    b. If the size stays at `Pending` for more than one hour, Contact Tanium Support on page 191 for assistance.
4. Check to see if the Tanium Deploy service is attempting to gather the Deploy Predefined Package Gallery file.
    a. Collect a troubleshooting package on page 168.
    b. Open the downloaded support bundle and open the `deploy-files\logs\Deploy.log` file.
    c. Search for `Ensuring software package gallery zip package`.
    d. If the `Deploy.log` file does not have that text, Configuring Deploy on page 93 again, wait 10-15 minutes, and then repeat the previous steps to recheck the log file.
5. If you still do not see any software in the **Predefined Package Gallery** page after completing the previous steps, Contact Tanium Support on page 191 for assistance.

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CommandError: Software package <*id*> command <*command-name*> exited with code: <*exit-code*>

When a software package command exits with a non-success code, the deployment shows a CommandError like the following message:
`CommandError: Software package <id> command <command-name> exited with code: <exit code>`



The error is based on the **Success Codes** configured in the software package **Run Command**:



Most exit codes other than 0 indicate failure and exit code 1 is almost always a generic failure, but this depends on what command was run. To troubleshoot this type of failure, review the **stdout** and **stderr** (standard output and standard error streams) from the command. You can view the **stdout** and **stderr** messages by opening the `subprocess.log` or by asking a question in Tanium Interact. For more information about Deploy logs, see Collect Deploy troubleshooting information from endpoints on page 169.

To view **stdout** and **stderr** messages in Tanium Interact, ask a question by using the **Deploy - Deployment Activities** sensor with the deployment ID as the parameter. For example:
`Get Deploy - Deployment Activities[2347] contains commanderror from all machines with Deploy - Deployments matches ^2347|.*CommandError.*`

In the results, the **Details** column includes the **stdout** and **stderr**. For Msiexec commands, exit codes other than 0 and 3010 (reboot required) are generally considered a failure. For more information, see Microsoft documentation: MsiExec.exe and InstMsi.exe error messages. Note that most Windows software installers use Msixec even if they have their own executable installer. The two most common Msiexec error codes are as follows:

- **1618**: Another Windows Installer installation is running. This is usually transient but could be caused by a hung or long-running installation performed by the user or another system. Deploy will not execute two different software package operations concurrently, so this could indicate that a user or another endpoint management system is running an installation.

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- **1603**: This code typically means that either the **Require Source Files** option was not selected for the software package deploy operation, the command or installer file name is incorrect, or that some other version or edition of the software is installed. If some other version or edition is installed, the software package needs additional applicability rules to prevent the operation from being applicable under this circumstance.

For other commands, find vendor-specific documentation or other Internet resources for specific exit codes.

Package files for package "Deploy - Software Package Gallery" took too long to cache

On the Predefined Package Gallery page, you might encounter a **Package files for package "Deploy - Software Package Gallery" took too long to cache** error message. This error indicates that one or both of the Tanium Servers cannot download the package. To resolve the issue, force the Tanium Servers to treat the file as a new URL and download a fresh copy.

1. From the Main menu, go to **Administration > Content > Packages**.
2. In the search filter, enter `Deploy - Software Package Gallery`.
3. Select the checkbox for **Deploy - Software Package Gallery** and click **Status**.
4. Click **Re-Download All**.
    - If the **Cached On** column shows check marks for both Tanium Servers and the **Last Update** column shows two similar timestamps, then the file downloaded successfully. Continue to step 11.
    - If you see an error or if either Tanium Server has a spinning icon, then continue to the next step.
5. In the **Package Status** modal, click **Close**.
6. With the package still selected on the **Packages** page, click **Edit**.
7. Under **Files**, click **software-package-gallery.zip**.
8. Edit the **File Address** by adding a question mark (?) and today's date to the end of the URL, such as `https://content.tanium.com/files/published/Deploy/Gallery/deploy-software-package-gallery.zip?2024-11-12`.
9. Click **Save**.
10. Try the **Re-Download All** button again.
    a. On the **Packages** page, select the checkbox for **Deploy - Software Package Gallery** and click **Status**.
    b. Click **Re-Download All**. When the **Status** column shows a green check mark, proceed to the next step.
11. From the Main menu, go to **Modules > Deploy > Software** and click **Predefined Package Gallery**.
12. Click **Update Now**.
13. Wait up to two minutes and refresh the page. Verify that the **Last Checked** and **Last Modified** values updated and the error message was replaced by the SHA256 hash. If the fields were not updated, click **Update Now** again and wait up to two more minutes.

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Uninstall Deploy

IMPORTANT

Use only this procedure to uninstall Deploy.

If you need to uninstall Deploy, first clean up the Deploy artifacts on the endpoint, then uninstall Deploy from the server, and then remove Deploy data directories and files from the server.

Remove Deploy artifacts from endpoints

Perform a hard uninstallation of Deploy. For more information, see Remove Deploy tools from endpoints.

Remove Deploy from the Tanium Module Server

1. From the Main menu, go to **Administration > Configuration > Solutions**.
2. Select the checkbox in the Deploy section, then click **Uninstall** and follow the process.
3. Return to the **Solutions** page and verify that the **Import** button is available for Deploy.

If the Deploy module has not updated in the console, refresh your browser.

Remove packages

1. From the Main menu, go to **Administration > Content > Packages.**
2. In the **Content Set** column, filter on values that contain Deploy.

(Optional) Remove data directories and files

To permanently remove all Deploy data from the Tanium Module Server, manually delete the following directories and files. If you later import the Deploy solution, the previous data is not restored.

WINDOWS:

- `\Program Files\Tanium\Tanium Module Server\services\deploy-files\`
- `\Program Files\Tanium\Tanium Module Server\services\deploy-service\`
- `\Program Files\Tanium\Tanium Module Server\temp\deploy-service\`
- `\Program Files\Tanium\Tanium Module Server\temp\deploy-service-invoker\`
- `\Program Files\Tanium\Tanium Module Server\temp\deploy-service-proxy\`
- `\Program Files\Tanium\Tanium Module Server\temp\deploy-*.bak`

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TANOS:

This action requires access to the unrestricted shell. For more information, including how to request a shell key, see Tanium Appliance User Guide: Examine OS processes and files.

- `/opt/Tanium/TaniumModuleServer/deploy-files`
- `/opt/Tanium/TaniumModuleServer/deploy-service`
- `/opt/Tanium/TaniumModuleServer/temp/deploy-*.bak`

Deployment fails with a WMI query error

You might encounter WMI query errors in a failed deployment status, in **Deploy - Scan Errors** sensor results, or in **Deploy - Software Packages Applicability Details** sensor results. WMI errors are usually caused by endpoint health issues or an invalid value in the WMI query applicability rule of a software package.

Error codes `-2147221164` and `0x80040154` indicate the namespace is not registered, which could be caused by a corrupt WMI repository or Windows component. To resolve this type of issue, you might need to reinstall or repair Windows on the affected endpoints.

Error codes `-2147217375` and `0x80041021` indicate a syntax problem with the WMI query in an applicability rule. A syntax problem generally causes all endpoints to return the same error when evaluating this rule. For more information, see Microsoft: WMI Error Constants.

For more information about troubleshooting WMI issues and repairing Windows, see the following resources:

- Microsoft: Troubleshooting Problems with WMI Scripts and the WMI Service
- Microsoft: WMI Troubleshooting
- Microsoft: Use the System File Checker tool to repair missing or corrupted system files

Deployment statuses

A Deployment Details page includes a **Status** section that provides the deployment progress across endpoints. The following table explains the possible deployment status groups and the sub-statuses. Endpoints return deployment statuses only if they are targeted endpoints.

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Deployment status descriptions

Status group	Sub-status	Description and troubleshooting
Not Applicable	Configuration not available or not targeted	The endpoint is no longer targeted by the deployment. Most commonly, this sub-status means the deployment uses targeting criteria that was changed by the deployment. For example, if you create a deployment with an Adobe Acrobat Reader Update bundle and targeting criteria of `Deploy - Software Packages matches ".Adobe Acrobat Reader.*Update Eligible."`, the deployment updates Adobe Acrobat Reader on endpoints. The update changes the response to the **Deploy - Software Packages** sensor so that this deployment no longer applies.  Use deployment targeting criteria based on attributes that cannot be changed by the deployment.
Not Applicable	Stopped before the deployment started	
Not Applicable	Software package *ID* is no longer applicable after task error. Updating status.	The software package encountered the error in the sub-status but the package is no longer applicable after running. Investigate the error message and endpoint log files for more information.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting

Not Applicable	• All software packages are not applicable to specified operations
	• Software package **Remove** operation sub-status:
	  ◦ Software package is *applicability* instead of Installed
	• Software package **Update** operation sub-statuses:
	  ◦ Software package is Installed instead of Update Eligible
	  ◦ Software package is Update Ineligible (System Requirements not met)
	  ◦ Software package is Install Eligible instead of Update Eligible
	  ◦ Software package is Not Applicable (Update Detection not met)
	• Software package **Install** operation sub-statuses:
	  ◦ Software package is already Installed
	  ◦ Software package is Update Eligible instead of Install Eligible (Update Detection met)
	  ◦ Software package is Update Ineligible (Update Detection met, System Requirements not met)
	  ◦ Software package is Not Applicable (System Requirements not met)
	  ◦ Software package is Not Applicable (Installation Requirements not met)
	  ◦ Software package is Update Ineligible (System Requirements not met)
	• Software package **Install or Update** operation sub-statuses:
	  ◦ Software package is already Installed
	  ◦ Software package is Update Ineligible (System Requirements not met)
	  ◦ Software package is Not Applicable (System Requirements not met)
	  ◦ Software package is Not Applicable (Update Detection and Installation Requirements not met)
		The deployment will not run because the software package operation is not applicable. The sub-status provides the current software package applicability status and high-level reason.
		If this sub-status is unexpected on an endpoint, investigate the software package applicability.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Waiting	Download Complete Waiting	The endpoint downloaded all software package files needed for this deployment but is waiting for the deployment start time or a maintenance window to open. This sub-status is most commonly the result of selecting **Download Immediately** and a future start time in the deployment settings.
Waiting	Waiting for initial evaluation	Deploy sent the deployment to the endpoint, but Deploy has not yet evaluated it. This sub-status should not persist for more than a few minutes.
Waiting	Waiting for maintenance window. Next window is at *time*	
Waiting	Waiting for maintenance window. No upcoming maintenance windows	
Waiting	Waiting for deployment start time *x*	
Waiting	Waiting for notification	
Waiting	Waiting for reboot	
Waiting	Waiting to run process	
Waiting	Waiting for updated software package catalog	The deployment includes a software package that the endpoint does not have. This sub-status should not persist for more than five minutes.
Waiting	Waiting for an active user	The deployment includes a software package with a command that runs as active user, but there is no active user logged in. To avoid this sub-status, use an `||ACTIVEUSERPROFILE||` or `||ACTIVEUSERREGISTRY||` applicability rule, which makes the software package **Not Applicable** if there is not an active user. For more information, see Variables for Windows applicability scans and command-line operations on page 108.
Waiting	Waiting for notification for deployment *ID* Waiting for deployment *ID* to finish running Waiting for deployment *ID* to finish running task *ID*	Another deployment is running. The current deployment is ready to run but will not run until the referenced deployment has finished running.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Downloading	Software package *ID* downloading files *x*%	
Downloading	Downloading required files	Software package files are downloading, but a download status cannot be reported yet.
Running	• Software package *ID* command *name* • Software package *ID* killing process *name* • Software package *ID* waiting for process *name* to exit • Software package *ID* copying *source* to *destination* • Software package *ID* deleting *path* • Software package *ID* creating *path* • Software package *ID* renaming *source* to *destination* • Software package *ID* extracting *source* to *destination*	The command step that is running.
Complete	Success	
Complete	Skipped	A command step encountered an error and was skipped. The command step is in a software package or a software package in a bundle that is set to **On Failure or Error: Continue**.
Complete	Success after re-scan	The deployment did not succeed initially, but after re-running an applicability scan, the software package is now in the targeted state. This sub-status most often happens if the software package installs software that is not fully installed until completing some additional activity, such as a security agent that must connect to a management server before it is fully installed. This sub-status might also indicate that something other than Deploy changed the state of this software shortly after this initial deployment did not succeed.
Complete	Success after step error *error details*	One of the software package commands received an error but the targeted software package applicability state is still achieved. This sub-status might indicate the exit code seen in the error details can be safely ignored or that the software package applicability rules are not fully detecting the state of the software.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Failed	CommandError: Software package <id> command <command-name> exited with code: <exit code>	The command returned an exit code other than the Success Codes that are defined in the command. For more information, see Troubleshooting: CommandError.
Failed	Software Package *ID* at edit_id *ID* is no longer present in the catalog	The specific revision of a software package was removed after the deployment started running. This sub-status can happen temporarily when a software package is edited during an active deployment. If it persists for more than 24 hours or appears on a new deployment of an unedited software package, this most likely indicates an issue. Gather endpoint logs and contact Tanium Support.
Failed	Software Package *name* (id: *ID*) applicability after *operation* is applicability	The deployment ran but did not reach the targeted applicability state (for example, **Installed** for an **Install or Update** deployment). Instead, the deployment resulted in another applicability state (for example, **Not Applicable** for an **Install or Update** deployment). This sub-status most often indicates a misconfiguration with the software package applicability rules. Review the sub-process log and the software package applicability.
Failed	Software package is *applicability* after *operation*. Task error *error details*	
Failed	Deployment ended before completing	The deployment stopped or reached the configured end time before it could complete. This sub-status might happen for one of the following reasons: • The deployment window was too short to download needed package files. • There was no active maintenance window during the deployment window. • The duration of notification period was too long and the end user did not accept the notification in time. • There was a persistent error and the deployment ended during a retry.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Failed	Failed to import configuration	The deployment or software package configuration could not be imported. To investigate this rare status, verify security exclusions for Deploy and Endpoint Configuration. If this status persists or is repeatable, collect a full Endpoint Must Gather and contact Tanium Support.
Failed	Software package *ID* applicability reverted to *applicability* after *previous_deployment_status* deployment status and *attempt_count* attempts were made within *retry_reset_hours* hours. Will not retry for *retry_reset_hours* hours.	The deployment ran and initially succeeded but a software package applicability scan later detected the deployment needed to run again. If this happens enough to exceed the configured deployment **Retry Count** during the period of the deployment **Reset Frequency**, Deploy stops re-running the deployment and sets the deployment to this status. For more information, see Configure module settings on page 98. This sub-status might indicate an external system is undoing changes made by Deploy or that another deployment is undoing it. For example, if this is an **Install** deployment, a concurrent deployment that uninstalls this software might cause this problem.

Remove Deploy tools from endpoints

You can deploy an action to remove Deploy tools from an endpoint or computer group. Separate actions are available for Windows and non-Windows endpoints.

1. In Interact, target the endpoints from which you want to remove the tools. For example, ask a question that targets a specific operating system:
   `Get Endpoint Configuration - Tools Status from all machines with Is Windows equals true`
2. In the results, select the row for **Software Management**, drill down as necessary, and select the targets from which you want to remove Deploy tools. For more information, see Tanium Interact User Guide: Drill Down.
3. Click **Deploy Action**.
4. For the **Deployment Package**, select **Endpoint Configuration - Uninstall Tool [Windows]** or **Endpoint Configuration - Uninstall Tool [Non-Windows]**, depending on the endpoints you are targeting.
5. For **Tool Name**, select **Software Management**.

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6. (Optional) By default, after the tools are removed they cannot be reinstalled. To allow tools to be automatically reinstalled, clear the selection for **Block reinstallation**. Re-installation occurs almost immediately.

   NOTE

   If reinstallation is blocked, you must unblock it manually:

   - To allow Deploy to reinstall tools, deploy the **Endpoint Configuration - Unblock Tool [Windows]** or **Endpoint Configuration - Unblock Tool [Non-Windows]** package (depending on the targeted endpoints).
   - If you reinstall tools manually, select **Unblock Tool** when you deploy the **Endpoint Configuration - Reinstall Tool [Windows]** or **Endpoint Configuration - Reinstall Tool [Non-Windows]** package.

7. (Optional) To remove all Deploy databases and logs from the endpoints, clear the selection for **Soft uninstall**.

   CAUTION

   When you perform a hard uninstallation of some tools, the uninstallation also removes data that is associated with the tool from the endpoint. This data might include important historical or environmental data. If data that you want to keep is associated with the tool, make sure you perform only a soft uninstallation of the tool.

8. Select **Remove unreferenced dependencies**.
9. (Optional) In the **Deployment Schedule** section, configure a schedule for the action.

   BEST PRACTICE

   If some target endpoints might be offline when you initially deploy the action, select **Recurring Deployment** and set a reissue interval.

10. Click **Show preview to continue**.
11. A results grid appears at the bottom of the page showing you the targeted endpoints for your action. If you are satisfied with the results, click **Deploy Action**.

NOTE

If you have enabled Endpoint Configuration approval, tool removal must be approved in Endpoint Configuration before tools are removed from endpoints.

Contact Tanium Support

To contact Tanium Support for help, sign in to the Tanium Customer Community.

For more information about how to submit a support case, see Case Submission Form.

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Upgrading Windows

Deploy supports two methods for upgrading Windows: enablement package upgrades and in-place upgrades.

- Enablement package upgrades use files that are staged on endpoints to upgrade specific versions of Windows 10 or 11 to newer versions. This type of upgrade is fast, reliable, and requires no additional configuration.
- In-place upgrades require that you first stage Windows installation media on the endpoints to upgrade, then scan for compatibility, and lastly run Windows Setup to install the new version of Windows.

Overview of enablement package upgrades

To use the enablement package method, import the Feature Update software package from the Predefined Package Gallery and then deploy it to the endpoints you want to target. Enablement packages require no additional setup.



Pre-notify the user, post-notify the user, and force a restart as part of the deployment. The upgrade does not complete until the computer is restarted and fails if the user shuts down the computer while it is running. As a result, it is necessary to inform the user that a Windows upgrade is beginning and subsequently that their computer must be restarted.

For more information about configuring notifications and restarts, see Manually deploy a software package or bundle on page 127.

Enablement package upgrade paths

Deploy supports the following enablement package upgrade paths:



Applicability rules are defined in the enablement packages to apply only to systems that are at the required build and update levels.

Supported enablement package upgrades

Current version with upgrade prerequisites	Enablement package
Windows 11, version 24H2 The following update must also be installed before upgrading: Cumulative update August 29, 2025—KB5064081 (OS Builds 26100.5074) Preview or later or later	**Feature Update to Windows 11, version 25H2 (KB5054156)**

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Supported enablement package upgrades (continued)

Current version with upgrade prerequisites	Enablement package
Windows 11, version 22H2 The following update must also be installed before upgrading: Cumulative update October 31, 2023—KB5031455 (OS Builds 22621.2506 and 22631.2506) Preview or later	**Feature Update to Windows 11, version 23H2 (KB5027397)**
Windows 10, version 20H2, Enterprise edition Windows 10, version 21H1 Windows 10, version 21H2 The following updates must also be installed before upgrading: • Servicing stack update Windows 10, version 2004: September 8, 2020 or later • Cumulative update July 26, 2022—KB5015878 (19041.1865) or later	**Feature Update to Windows 10, version 22H2 (KB5015684)**
Windows 10, version 2004 Windows 10, version 20H2 Windows 10, version 21H1 The following updates must also be installed before upgrading: • Servicing stack update Windows 10, version 2004: September 8, 2020 or later • Cumulative update September 14, 2021 – KB5005565 (OS Build 19041.1237) or later	**Feature Update to Windows 10, version 21H2 (KB5003791)**

For more information, see Import a software package from the Predefined Package Gallery on page 113.

Overview of in-place upgrades

Deploy supports the upgrade of Windows 7 Service Pack 1 and later to Windows 10 and upgrades of Windows 10 or 11 to later builds of Windows. You can use Deploy to handle the Windows upgrade process in three phases:

- **Phase 1: Download Windows media and scan for compatibility**

  You can choose from two options for downloading and installing the Windows media in preparation for the upgrade; **pre-cache** or **direct cache**.

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Windows media options

Details	Phase 1: Pre-cache	Phase 1: Direct cache
Windows media	You need to have Windows installation media (ISO or standalone ESD file) acquired from Microsoft or an authorized OEM that corresponds to the Windows version, edition, architecture, and language that you want to deploy. For more information, see Before you begin an in-place upgrade on page 195.	You do not need the Windows media file.
Process	The Phase 1 Pre-Cache software package invokes a PowerShell script to copy the files that are required for the upgrade to the `C:\Deploy` directory on the endpoint. After the files are in place, the PowerShell script runs Windows Setup to check for upgrade compatibility. The script then takes the information returned from Windows Setup and records the results in the registry.	The Direct Cache package uses a script to determine the correct URL for the Windows media that matches the architecture, edition, and language of the endpoint being upgraded and then downloads that media directly from Microsoft.
Languages	If the operating system locale is not en-us, you need to update the **Update Detection** and **Install Verification** rules in the pre-cache package.	Direct Cache packages automatically download the respective media.
Target	This option is the best choice for updating many Windows endpoints that are in the same physical network location.	This option is the best choice for updating isolated endpoints that are not peering with other Tanium-managed endpoints, such as those used by remote workers.
Additional considerations		◦ Ensure that endpoints have network connectivity to the following hosts: ▪ content.tanium.com ▪ go.microsoft.com ▪ dl.delivery.mp.microsoft.com ◦ Ensure that Microsoft Background Intelligent Transfer Service (BITS) is enabled.

- **Phase 2: Compatibility remediation and re-scan**

  If the Phase 1 compatibility scan fails, you must remediate any problems. You can use the Phase 2 software package to force a new scan. Rescanning is necessary if there is a compatibility problem detected in the Phase 1 scan that is later remediated.

- **Phase 3: Windows Upgrade**

  The Phase 3 software package invokes a PowerShell script that runs Windows Setup to perform the upgrade.

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Before you begin an in-place upgrade

- **Pre-cache**: Acquire appropriate installation media from the Microsoft 365 admin center, Visual Studio Downloads, another official Microsoft source, or a Microsoft-authorized OEM.

  The installation media is typically an ISO file, but in rare cases an OEM might provide you with a standalone compressed ESD file. A valid Windows installation ISO or standalone ESD file contains Windows Setup files (`setup.exe`), a `boot.wim`, and an `install.wim` or `install.esd` file.

  BEST PRACTICE

  Do not modify the contents of Windows installation media. While certain modifications might work, modified images are not supported for in-place upgrades by Microsoft[1,2] or by Tanium. Use Tanium Provision to deploy an OS Refresh if you need to use a custom image.

- Your security administrator must create security exclusions to ensure successful operation of Tanium Deploy and the Tanium Client. Additional security exclusions for Windows are required for Windows upgrades.
  - Microsoft Support: Virus scanning recommendations for Enterprise computers that are running currently supported versions of Windows (KB822158).
  - Tanium Client Management User Guide: Host system security exclusions
  - Security exclusions on page 34
- Ensure that endpoints meet the required minimum disk space and RAM for all InPlace packages. To view the requirements, go to **Modules > Deploy > Software** and click the name of a package. The requirements are in the **Software Package Details** section.

NOTE

If you have any questions about implementing Windows upgrades in your environment, Contact Tanium Support on page 191 to discuss your testing and implementation plans.

Step 1: Prepare and modify software packages

Prepare to upgrade by importing and modifying software packages.

1. Import three InPlace software packages (Phase1 Pre-Cache, Phase 2 Re-Scan, and Phase 3 Upgrade) from the predefined package gallery. The following examples use Windows 11 Version 24H2. Substitute with the version and architecture you are deploying as needed.

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a. From the Main menu, go to **Modules > Deploy> Software**, and then click **Predefined Package Gallery**.

You can use the filter or search options to narrow the list to Microsoft Windows upgrades.

b. Select the following three packages:

- **InPlace Upgrade to Windows 11 Version 24H2 - Phase1 - Pre-Cache**
- **InPlace Upgrade to Windows 11 Version 24H2 - Phase2 - Re-Scan**
- **InPlace Upgrade to Windows 11 Version 24H2 - Phase3 - Upgrade**

c. Click **Import**, confirm the action, and then click **Go To Software Packages**.

2. Modify the Phase 1 pre-cache software package.

a. Click the imported **InPlace Upgrade to Windows 11 Version 24H2 - Phase1 - Pre-Cache** package and then click **Edit**.

b. In the **Package Files** section, confirm that the 7-Zip files have been imported. If needed, manually import the files.

i. Expand **Package Files**, and then click **7Zip.msi**.

ii. Copy the URL of the 7-Zip MSI file in the origin field and paste it in a browser window to download it to the local computer. Click **Delete**.

iii. Click **Add Package Files**. Click **Local File**. Browse to the location that you saved the MSI file in the previous step. Click **Open**.



Do not click **Inspect MSI to Populate Fields**.

c. Expand **Package Files**, and then click **Add Package Files > Local File**.

d. Navigate to the ISO or ESD file and then click **Open**.

After the upload completes, the file entry with its SHA-256 hash appears.

e. (Optional) If a locale other than en-us is required, edit the **Update Detection** and **Install Verification** rule and change **1033** to the appropriate language ID. For more information and a complete list of all language/region decimal IDs, see Microsoft Documentation: Available languages for Windows.

f. Click **Save Package** and then if prompted, click **Distribute Catalog**.



After you update the package, the Deploy service transfers files to the Tanium Server. This process could take up to 30 minutes. You cannot deploy the Phase 1 software package until it completes.

3. (Optional) Modify the Phase 3 software package.

The PowerShell script associated with Phase 3 starts the Windows Setup upgrade process and in most cases should need no modification. The script runs Windows Setup with the following command line arguments:

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`/auto Upgrade /NoReboot /Quiet /DynamicUpdate disable /ShowOOBE none /Telemetry disable /Uninstall enable /EULA accept`

If you need to append additional arguments to the command line that Windows Setup is using for upgrade, you can complete the following steps:

> NOTE
>
> If you modify these packages, ensure that you test thoroughly and run them at your own risk.

a. From the Main menu, go to **Modules > Deploy > Software**.

b. Click **InPlace Upgrade to Windows 11 Version 24H2 - Phase3 - Upgrade** and then click **Edit**.

c. In the **Update** section of the **Deploy Operations** section, add any arguments to the end of the command in **Run Command**.

For example, if you want to keep BitLocker active during a Windows 11 to Windows 11 upgrade, you can append that argument to the end of the command:

```
powershell.exe -executionpolicy remotesigned -noninteractive -command ".\New-WindowsUpgradeScheduledTask.ps1" /EULA accept /Bitlocker ForceKeepActive
```

> NOTE
>
> The full list of commands available to Windows Setup can be found at: Microsoft Documentation: Windows Setup Command-Line Options.

Step 2: Deploy the Phase 1 software package

After the modified phase 1 software packages finishes caching on the Tanium Server, complete the following steps to deploy the package.

1. From the Main menu, go to **Modules > Deploy > Software**.
2. Select **InPlace Upgrade to Windows 11 Version 24H2 - Phase1 - Pre-Cache** and click **Deploy Package**.

> IMPORTANT
>
> Do not use Windows InPlace Upgrade packages in a software bundle. Each phase needs a different deployment in order to track deployment status and display End-User Notifications before and after the upgrade.

3. Select the desired options according to your environment, click **Show Preview to Continue**, and then click **Deploy Software**.

> NOTE
>
> For this deployment, do not restart and do not set notifications because actions are not visible to end users.

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BEST PRACTICE

Deploy this package on an ongoing basis. Deploy automatically runs this deployment on endpoints when they enter an eligible state.

Step 3: Review and remediate compatibility results

After deploying the Phase 1 software package, you must check for and remediate any compatibility problems on endpoints. If all targeted endpoints show an applicability status of `Installed` for Phase 1, then you can skip to Deploy the Phase 3 software package on page 200.

Use the following sensors to find endpoints with compatibility problems:

TIP

To quickly diagnose a problem after you find endpoints with compatibility problems, review the `C:\$WINDOWS.~BT\Sources\Panther\ScanResult.xml` on the endpoint. Look for error references that might prevent an upgrade or migration.

Deploy - Windows Upgrade Ready (Optional)

This sensor returns a True/False result as to whether systems are ready and meet the Windows requirements for installation. A False result means that the scan failed for a variety of reasons or that you targeted an ineligible system, such as Windows Server, Mac, or Linux. Use this question for tracking counts of endpoints that are ready for upgrade.

Deploy - Windows Upgrade Scan Details

This sensor provides detailed information from Windows Setup, including specific compatibility blockers. Use this sensor for remediation in the following procedure.

Deploy - Windows Upgrade Scan Results (Optional)

This sensor produces the text of the scan and the result (return code) from Windows Setup. An example of a successful return code from Windows Setup is: `0xc1900210`. Use this sensor for tracking groups of compatibility states. Review Windows Upgrade SCAN Details and remediate errors.

Use the **Deploy - Windows Upgrade Scan Details** sensor to view more detailed information about compatibility failures. For example, some installed software might be incompatible with the upgrade process to this version of Windows. In this scenario, you might need to update or remove software before upgrading Windows.

You can use the **Deploy - Windows Upgrade Scan Results** sensor to review and remediate any conditions that prevent upgrade, such as low disk space or a compatibility block.

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1. Go to the Tanium **Home** page and ask the following question:

```
Get Windows Upgrade Scan Details from all machines
```

2. (Optional) Filter to restrict the question to endpoints that you targeted with the Phase 1 deployment. Feature Update to Windows 11, version 23H2 (KB5027397)

   a. From the Deploy menu, go to **Deployments** and click the **InPlace Upgrade to Windows 11 Version 24H2 - Phase1 - Pre-Cache** deployment.

   b. In the **Summary** section, click **Summary** next to **Reporting** and select **View Online Data**. A new Interact page appears with a question filtered to machines that ran this deployment.

   c. Replace the `Get Deploy - Deployments` portion of the question with `Get Deploy - Windows Upgrade Scan Details`.

   d. Select the new question for the filtered view of **Get Deploy - Windows Upgrade Scan Details**.

3. Identify remediation strategies for blocking conditions. For example, if an answer indicates an installed application is not compatible, deploy a Deploy Software Package or Tanium Package to update or remove that application.

4. (Optional) If remediating with a Deploy Software Package or Tanium Package, consider using the **Custom Tagging - Add Tags** Tanium Package to apply a custom tag before deploying the remediation to easily track the remediated endpoints. For more information, see Tanium Community: How to Group Computers Based on Your Organization's Needs Using Custom Tags.

Step 4: Deploy Tanium package: Registry - Set Value

If you have remediated any blocking issues and are ready to re-scan those endpoints for compatibility, you must set a registry value to enable Phase 2 to run.

1. Ask a Tanium question that identifies the remediated endpoints. For example, if you used a custom tag called **Win11remediated** to identify endpoints in the previous step, ask the following question:

```
Get Online from machines with custom tags equals Win11Remediated
```

2. Select the answer indicating the remediated endpoints and click **Deploy Action**.

3. Select the Tanium Package: **Registry - Set Value**.

4. Set the **OS Architecture** to **32**. By selecting 32, the key is placed under the required `WOW6432Node` registry path.



Do not directly specify the `WOW6432NODE` path in the **Registry Key Name** field.

5. For **Registry Key Name**, enter `HKEY_LOCAL_MACHINE\Software\Tanium\Tanium Client\OSD`.

6. For **Value Name**, enter `Status`.

7. For **Value Data**, enter `WIM File Copied`.

8. For **Value**, select **REG_SZ**.

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IMPORTANT

Do not deploy this package on an ongoing basis. Modify the key one time. After you are ready to rescan any endpoints, proceed to Deploy the Phase 2 software package on page 200 to force a compatibility re-scan.

Step 5: Deploy the Phase 2 software package

The Phase 2 deployment uses the Windows Setup files to run the same compatibility scan that runs during the Phase 1 deployment. If there were no compatibility errors during the Phase 1 deployment, then the Phase 2 deployment is not required. If you resolved the problems and set the registry value, the Phase 2 software package appears in the `Update Eligible` applicability status on those endpoints and should be deployed.

1. From the Main menu, go to **Modules > Deploy > Software**.
2. Select **InPlace Upgrade to Windows 11 Version 24H2 - Phase2 - Re-Scan** and click **Deploy Package**.

   IMPORTANT

   Do not use Windows InPlace Upgrade packages in a software bundle. Each phase needs a different deployment in order to track deployment status and display End-User Notifications before and after the upgrade.
3. In the **Endpoints to Target** section, select the same targets or a subset of the targets that you configured for the Phase 1 deployment.
4. Select the desired options according to your environment, click **Show Preview to Continue**, and then click **Deploy Software**.

   NOTE

   For this deployment, notifications are not necessary because you are running a scan that is not visible to end users.

   BEST PRACTICE

   Deploy this package on an ongoing basis. Deploy automatically runs this deployment on endpoints when they enter an eligible state.

After you deploy the Phase 2 software package, review compatibility results again for any targeted endpoints that are not in `Installed` status for the Phase 2 software package. Some endpoints might take several iterations of remediation before the compatibility scan passes.

Step 6: Deploy the Phase 3 software package

The Phase 3 deployment depends on the successful completion of the Phase 1 and Phase 2 deployments. This deployment executes the Windows Upgrade.

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1. From the Main menu, go to **Modules > Deploy > Software**.
2. Select **InPlace Upgrade to Windows 11 Version 24H2 - Phase3 - Upgrade**, click **Deploy Package**.

   IMPORTANT

   Do not use Windows InPlace Upgrade packages in a software bundle. Each phase needs a different deployment in order to track deployment status and display End-User Notifications before and after the upgrade.

3. In the **Endpoints to Target** section, select the same target as the Phase 1 deployment or the desired targets that you want to start the upgrade. Endpoints that are not in `Installed` status for both the Phase 1 and Phase 2 deployments cannot execute this software package operation, so there is no need to restrict targeting based on the previous phase results.
4. Select the desired deployment options based on your environment, click **Show Preview to Continue**, and then click **Deploy Software**.

   IMPORTANT

   Pre-notify the user, post-notify the user, and force a restart as part of the deployment. The upgrade does not complete until the computer is restarted and fails if the user shuts down the computer while it is running. As a result, it is necessary to inform the user that a Windows upgrade is beginning and subsequently that their computer must be restarted.

IMPORTANT

If the Phase 3 deployment does not complete successfully, action lock might be turned on for some endpoints. For more information about how to find endpoints with action lock enabled and how to disable action lock, see Tanium Console User Guide: Test action lock and Tanium Console User Guide: Turn off action lock.

Deploy Cleanup

After you complete the Phase 3 deployment or run the Phase 1 deployment again, if necessary, use the **Windows Upgrade Cleanup** software package to remove artifacts and enable future usage of Windows upgrade software packages.

1. From the Main menu, go to **Modules > Deploy > Software**.
2. Select **Windows Upgrade Cleanup** and click **Deploy Package**.
3. In the **Endpoints to Target** section, target the applicable endpoints to remove Windows 11 upgrade artifacts. For example, you can enter the following targeting filter to clean up endpoints that completed the 24H2 upgrade:

   ```
   Deploy - Installed Software Packages matches .*InPlace Upgrade to Windows 11 Version 24H2 - Phase3 - Upgrade.*Installed and Windows OS Release ID matches 24H2
   ```

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TIP

If necessary, replace the software package name and release ID to match the package you deployed.

4. For the **Deployment Type** setting, select **One-Time**. Do not select Ongoing because an ongoing deployment might overlap with and break future upgrade attempts.
5. Select the desired deployment options based on your environment, click **Show Preview to Continue**, and then click **Deploy Software**.

BEST PRACTICE

Do not set any notifications and do not force a restart as part of the deployment as these settings are unnecessary.

To check for Phase 3 success, ask the question `Get Operating System?maxAge=60 from all computers`. If an endpoint does not answer with the operating system you deployed, the upgrade was not successful. For more information, see Troubleshooting. The `maxAge` parameter ensures that the answer is updated immediately.

For more information about deployment settings, see Manually deploying software on page 125.

Troubleshooting in-place upgrades

- View logs. Tanium records activities from each phase to the `<Tanium Client>\Tools\SoftwareManagement\logs\WinIPU` folder. To troubleshoot errors in each phase, review the appropriate log file from an affected endpoint:
  - Phase 1 media caching: `WinIPU_PreCache.txt`
  - Phases 1 and 2 compatibility scan: `WinIPU_CompatScan.txt`
  - Phase 3 rollback log, in case of failure: `WinIPU_PostRollBack.txt`
  - Phase 3 Windows setup log: `WinIPU_Upgrade.txt`.
- For problems with Windows Setup, see the appropriate Microsoft log files as described in Microsoft Support: Log files that are created when you upgrade to a new version of Windows.
- Depending on the failure, the Microsoft logs are automatically copied to `<Tanium Client>\Tools\SoftwareManagement\logs\WinIPU`. The most useful failure information is typically found in `Setupact.log` and `Setuperr.log`. You can use Microsoft SetupDiag to assist in diagnosing upgrade issues. For more information, see Microsoft documentation: SetupDiag.
- To collect Tanium and Microsoft logs from an endpoint, generate an Endpoint Must Gather that includes all items in the **Core** and **Software Manager** domain. For more information on generating an Endpoint Must Gather, see Tanium Client Management User Guide: Collect troubleshooting information from endpoints.

External references

[1]Microsoft Documentation: Task sequence requirements and limitations

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[2]Microsoft Documentation: Updating Windows through esd file

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Upgrading macOS

You can use Tanium Deploy to prepare and deploy macOS upgrades to your macOS endpoints. To complete a macOS upgrade, you must understand how to target and deploy software packages in Deploy.

Overview

Deploy supports the upgrade of macOS 10.13.6 through macOS 12 to macOS 13. You can use Deploy to handle the macOS upgrade process in two phases:

Phase 1: Pre-Cache

This method uses the Tanium platform to download the macOS installer, efficiently sharing parts of the update across endpoints on the same network.

Phase 2: Upgrade

The Phase 2 upgrade runs the macOS installer cached in Phase 1, terminates all applications, and reboots the endpoint.

Import software packages

To begin, you must import at least two software packages from the Predefined Package Gallery. The following examples use macOS Ventura. Substitute with the version you are deploying as needed.

1. From the Main menu, go to **Modules > Deploy > Software**, and then click **Predefined Package Gallery**.
2. Select at least one of the following packages:
   - **macOS Ventura - Phase 1 - Pre-Cache**
   - **macOS Ventura - Phase 2 – Upgrade**
3. Click **Import**, confirm the action, and then click **Go To Software Packages**.

Deploy software packages

After the software packages are ready, perform the following steps to complete the upgrade process:

1. Deploy the Phase 1 software package on page 204
2. Deploy the Phase 2 software package with a pre-notification on page 205

Deploy the Phase 1 software package

1. From the Main menu, go to **Modules > Deploy > Software**. You can use the filter or search options to narrow the list to macOS upgrades.
2. Select **macOS Ventura - Phase 1 - Pre-Cache** and then click **Deploy Package**.

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3. Select the desired options according to your environment, click **Show Preview to Continue**, and then click **Deploy Software**.

BEST PRACTICE

- Notifications are not necessary because the Phase 1 actions are not visible to end users.
- Deploy this package on an ongoing basis so that Tanium Deploy automatically runs this deployment on endpoints when they enter an eligible state.

Deploy the Phase 2 software package with a pre-notification

The Phase 2 software package silently runs the installer command, then it terminates all applications and reboots the computer to perform the upgrade. The process takes up to 30 minutes and does not provide any warning to the end user prior to the reboot.

1. From the Main menu, go to **Modules > Deploy > Software**. You can use the filter or search options to narrow the list to macOS upgrades.
2. Select **macOS Ventura - Phase 2 – Upgrade** and click **Deploy Package**.
3. In the **Targeting** section, select the same targets or a subset of the targets that you configured for the Phase 1 deployment.
4. Configure a pre-notification to indicate that the computer will reboot within 30 minutes without further warning.

BEST PRACTICE

Use a clear pre-notification message so that end users can prepare for the reboot. For example:

```
This computer will reboot within 30 minutes to complete a macOS upgrade. You will not be notified again before the reboot. Make sure to save any unsaved work.
```

5. Select the desired options according to your environment. Do not include a restart or post-notification.
6. Click **Show Preview to Continue**, and then click **Deploy Software**.

Troubleshooting

Errors encountered while running the macOS installer during Phase 2 are written to the Deploy `subprocess.log` file. The Apple logs for the upgrade are stored in `/var/log/install`.

For general Deploy troubleshooting, see Troubleshooting Deploy on page 168.

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Reference: Predefined Package Gallery

The **Predefined Package Gallery** is a set of predefined software package templates that you can import. Use the **Predefined Package Gallery** to import third-party software package templates to install, update, or remove software on a set of target computers. For more information, see Managing software on page 103.

Software package templates contain files hosted on third-party domains. If you have security software that monitors and blocks unknown URLs, see Third-party internet domains on page 66.

A-B on page 206 | C-E on page 210 | F-L on page 211 | M on page 214 | N-S on page 227 | T on page 229 | U-Z on page 231

A-B

Platform	Vendor	Title
Windows	Adobe	Acrobat (64-bit)
Windows	Adobe	Acrobat (Reduced Mode)
macOS	Adobe	Acrobat DC
Windows	Adobe	Acrobat DC (en-us)
macOS Windows	Adobe	Acrobat Reader DC (en-us)
Windows	Adobe	Acrobat Reader DC (en-us) (64-bit)
Windows	Adobe	Acrobat Reader DC (MUI)
Windows	Adobe	Acrobat Reader DC (MUI) (64-bit)
Windows	Adobe	After Effects CC -- AUDIT ONLY[2]
macOS	Adobe	AIR - Remove Only
Windows	Adobe	Animate CC -- AUDIT ONLY[2]
Windows	Adobe	Audition CC -- AUDIT ONLY[2]
Windows	Adobe	Digital Editions
Windows	Adobe	Dreamweaver CC -- AUDIT ONLY[2]
macOS Windows	Adobe	Flash Player - Remove Only

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Platform	Vendor	Title
Windows	Adobe	Illustrator CC -- AUDIT ONLY[2]
Windows	Adobe	InDesign CC -- AUDIT ONLY[2]
Windows	Adobe	Photoshop CC -- AUDIT ONLY[2]
Windows	Adobe	Premiere Pro CC -- AUDIT ONLY[2]
Windows	Adobe	Shockwave EOL
macOS	AgileBits	1Password 7
macOS	AgileBits	1Password 8
Windows	AgileBits	1Password 8 (Active User)
Windows	AgileBits	1Password 8 (Active User) (arm64)
Windows	AgileBits	1Password 8 (x64)
macOS	Aircall	Aircall Workspace (ARM)
macOS	Aircall	Aircall Workspace (Intel)
Windows	Aircall	Aircall Workspace
macOS	Alacritty	Alacritty
Windows	Amazon	Corretto 17 (x64)
Windows	Amazon	Corretto 21 (x64)
Windows	Amazon	Corretto 25 (x64)
Windows	Amazon Web Services, Inc	Amazon Workspaces (x64)
Windows	Amazon Web Services, Inc	Amazon Workspaces (x86)
macOS Windows	Anysphere	Cursor x64
Windows	Anysphere	Cursor x64 (Active User)
macOS	aONe	Keka
Windows	Apache	Tomcat 10.1
Windows	Apache	Tomcat 9.0
Windows	Apple	iTunes 32-bit

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Platform	Vendor	Title
Windows	Apple	iTunes 64-bit
macOS	Apple	Apple Mobile Device Support
macOS	Apple	macOS Ventura - Phase1 - Pre-Cache
macOS	Apple	macOS Ventura - Phase2- Upgrade
macOS	appmakes	Typora
Windows	appmakes	Typora x64 (Active User)
Windows	appmakes	Typora x64 (All Users)
Windows	appmakes	Typora x86 (Active User)
Windows	appmakes	Typora x86 (All Users)
Windows	Arco Software	CutePDF Writer
macOS Windows	Arduino	IDE
macOS Windows	Atlassian	Sourcetree
macOS	Audacity	Audacity
Windows	Audacity	Audacity 32-bit
Windows	Audacity	Audacity 64-bit
macOS	Audacity	Audacity (ARM)
Windows	AutoHotkey Foundation LLC	AutoHotkey (Active User)
Windows	AutoHotkey Foundation LLC	AutoHotkey (All Users)
Windows	Azul Systems, Inc.	Azul Zulu JDK 11 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JDK 11 (x86)
Windows	Azul Systems, Inc.	Azul Zulu JDK 17 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JDK 17 (x86)
Windows	Azul Systems, Inc.	Azul Zulu JDK 21 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JDK 25 (x64)

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Platform	Vendor	Title
Windows	Azul Systems, Inc.	Azul Zulu JDK 8 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JRE 11 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JRE 11 (x86)
Windows	Azul Systems, Inc.	Azul Zulu JRE 17 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JRE 17 (x86)
Windows	Azul Systems, Inc.	Azul Zulu JRE 21 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JRE 25 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JRE 8 (x64)
Windows	Azul Systems, Inc.	Azul Zulu JRE 8 (x86)
Windows	Balena Ltd.	balenaEtcher
macOS	Balena Ltd.	balenaEtcher (ARM)
macOS	Balena Ltd.	balenaEtcher (Intel)
macOS	Bare Bones	BBEdit
Windows	Bluebeam, Inc.	Bluebeam Revu x64 21
Windows	BlueJeans Network, Inc	BlueJeans (Active User)
Windows	BlueJeans Network, Inc	BlueJeans (All Users)
Windows	Box, Inc.	Box Drive (x64 en-us)
Windows	Box, Inc.	Box Drive (x86 en-us)
macOS	Brave Software, Inc	Brave Browser
Windows	Brave Software, Inc	Brave Browser (Active User) (x64)
Windows	Brave Software, Inc	Brave Browser (Active User) (x86)

[2] Audit-only software package templates are used for reporting purposes. No source files or commands are distributed for these packages, but there is logic to determine if the software is installed or out of date.

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C-E

Platform	Vendor	Title
Windows	Cisco	Jabber
Windows	Cisco	Network Recording Player
macOS	Cisco	Webex
Windows	Cisco	Webex (Active User) (x64)
Windows	Cisco	Webex (All Users) (x64)
macOS	Cisco	Webex (ARM)
Windows	Cisco	Webex Recorder and Player
Windows	Citrix Systems, Inc.	Citrix Workspace
Windows	Corel Corporation	WinZip
macOS	DB Browser for SQLite Team	DB Browser for SQLite
Windows	DB Browser for SQLite Team	DB Browser for SQLite x64
Windows	DB Browser for SQLite Team	DB Browser for SQLite x86
Windows	Dell	Dell Command Update
Windows	Dell	Dell Command Update for Windows Universal
macOS Windows	Devolutions Inc.	Remote Desktop Manager
macOS Windows	Devolutions Inc.	Remote Desktop Manager Free
macOS	Discord, Inc	Discord
macOS	Docker Inc.	Docker Desktop (ARM)
macOS	Docker Inc.	Docker Desktop (Intel)
Windows	Docker Inc.	Docker Desktop (x64)
macOS Windows	Dropbox	Desktop Client
Windows	Eclipse Adoptium	Temurin 11 JDK with Hotspot 32-bit

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Platform	Vendor	Title
Windows	Eclipse Adoptium	Temurin 11 JDK with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 11 JRE with Hotspot 32-bit
Windows	Eclipse Adoptium	Temurin 11 JRE with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 16 JDK with Hotspot 32-bit
Windows	Eclipse Adoptium	Temurin 16 JDK with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 17 JDK with Hotspot 32-bit
Windows	Eclipse Adoptium	Temurin 17 JDK with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 21 JDK with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 25 JDK with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 17 JRE with Hotspot 32-bit
Windows	Eclipse Adoptium	Temurin 17 JRE with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 8 JDK with Hotspot 32-bit
Windows	Eclipse Adoptium	Temurin 8 JDK with Hotspot 64-bit
Windows	Eclipse Adoptium	Temurin 8 JRE with Hotspot 32-bit
Windows	Eclipse Adoptium	Temurin 8 JRE with Hotspot 64-bit
macOS	Evernote Corporation	Evernote
Windows	Evernote Corporation	Evernote (Active User)
Windows	Evernote Corporation	Evernote (All Users)
Windows	Extensis	Universal Type Client

F-L

Platform	Vendor	Title
macOS Windows	Figma, Inc.	Figma
Windows	Figma, Inc.	Figma (Active User)

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Platform	Vendor	Title
macOS Windows	Foxit Software Inc	PDF Reader
macOS	Genesys Inc.	Genesys Cloud
Windows	Genesys Inc.	Genesys Cloud
macOS	George Nachman	iTerm2
macOS Windows	gimp.org	GIMP
Windows	Git	Git (x64) Git (x86)
macOS	GitHub	Desktop
Windows	GN Audio	Jabra Direct
Windows	Google	Android Studio 64-bit
macOS	Google	Chrome
Windows	Google	Chrome x64
Windows	Google	Chrome x86
macOS	Google	Drive
Windows	Google	Drive File Stream
macOS Windows	HandBrake	HandBrake
Windows	HCSS	HCSS Client
Windows	Helios	TextPad x64
Windows	Helios	TextPad x86
macOS Windows	IDM Computer Solutions	UltraEdit
Windows	Igor Pavlov	7-Zip (x64)
Windows	Igor Pavlov	7-Zip (x86)

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Platform	Vendor	Title
macOS Windows	iterate GmbH	Cyberduck
Windows	Jam Software	TreeSize Free
macOS Windows	JetBrains	DataGrip
macOS Windows	JetBrains	GoLand
macOS	JetBrains	GoLand (ARM)
Windows	JetBrains	IntelliJ IDEA arm64
macOS Windows	JetBrains	IntelliJ IDEA Community Edition
macOS	JetBrains	IntelliJ IDEA Community Edition (ARM)
macOS Windows	JetBrains	IntelliJ IDEA Ultimate Edition
macOS	JetBrains	IntelliJ IDEA Ultimate Edition (ARM)
macOS	JetBrains	PyCharm
macOS	JetBrains	PyCharm (ARM)
Windows	JetBrains	PyCharm arm64
macOS Windows	JetBrains	PyCharm Community Edition
macOS	JetBrains	PyCharm Community Edition (ARM)
Windows	JetBrains	PyCharm Professional Edition
macOS Windows	JetBrains	WebStorm
macOS	JetBrains	WebStorm (ARM)
Windows	JetBrains	WebStorm arm64
Windows	KeePass	KeePass 1

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Platform	Vendor	Title
Windows	KeePass	KeePass 2
macOS Windows	KeePassXC Team	KeePassXC
macOS	KeePassXC Team	KeePassXC (ARM)
macOS	Knollsoft	Rectangle
macOS	Kong	Insomnia
macOS	Licecap	Licecap

M

Platform	Vendor	Title
macOS	MacPaw	The Unarchiver
macOS	Many Tricks	Moom
Windows	Martin Prikryl	WinSCP
Windows	Microsoft	.NET Desktop Runtime 6.0 (x64)
Windows	Microsoft	.NET Desktop Runtime 6.0 (x86)
Windows	Microsoft	.NET Desktop Runtime 7.0 (x64)
Windows	Microsoft	.NET Desktop Runtime 7.0 (x86)
Windows	Microsoft	.NET Desktop Runtime 8.0 (x64)
Windows	Microsoft	.NET Desktop Runtime 8.0 (x86)
Windows	Microsoft	.NET Desktop Runtime 9.0 (x64)
Windows	Microsoft	.NET Desktop Runtime 9.0 (x86)
Windows	Microsoft	.NET Desktop Runtime 10.0 (arm64)
Windows	Microsoft	.NET Desktop Runtime 10.0 (x64)
Windows	Microsoft	.NET Desktop Runtime 10.0 (x86)
Windows	Microsoft	.NET Framework
Windows	Microsoft	.NET Runtime 6.0 (x64)

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Platform	Vendor	Title
Windows	Microsoft	.NET Runtime 6.0 (x86)
Windows	Microsoft	.NET Runtime 7.0 (x64)
Windows	Microsoft	.NET Runtime 7.0 (x86)
Windows	Microsoft	.NET Runtime 8.0 (x64)
Windows	Microsoft	.NET Runtime 8.0 (x86)
Windows	Microsoft	.NET Runtime 9.0 (x64)
Windows	Microsoft	.NET Runtime 9.0 (x86)
Windows	Microsoft	.NET Runtime 10.0 (arm)
Windows	Microsoft	.NET Runtime 10.0 (x64)
Windows	Microsoft	.NET Runtime 10.0 (x86)
Windows	Microsoft	3D Viewer - Remove Only
Windows	Microsoft	ASP.NET Core Runtime 7.0 (x64)
Windows	Microsoft	ASP.NET Core Runtime 7.0 (x86)
Windows	Microsoft	ASP.NET Core Runtime 8.0 (x64)
Windows	Microsoft	ASP.NET Core Runtime 8.0 (x86)
Windows	Microsoft	ASP.NET Core Runtime 9.0 (x64)
Windows	Microsoft	ASP.NET Core Runtime 9.0 (x86)
Windows	Microsoft	ASP.NET Core Runtime 10.0 (arm64)
Windows	Microsoft	ASP.NET Core Runtime 10.0 (x64)
Windows	Microsoft	ASP.NET Core Runtime 10.0 (x86)
macOS	Microsoft	Edge
Linux	Microsoft	Edge (DPKG)
Windows	Microsoft	Edge arm64
Windows	Microsoft	Edge arm64
Windows	Microsoft	Edge x64

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Platform	Vendor	Title
Windows	Microsoft	Edge x86
Windows	Microsoft	Feature Update to Windows 10, version 21H2 (KB5003791) - x64
Windows	Microsoft	Feature Update to Windows 10, version 21H2 (KB5003791) - x86
Windows	Microsoft	Feature Update to Windows 10, version 22H2 (KB5015684) - x64
Windows	Microsoft	Feature Update to Windows 10, version 22H2 (KB5015684) - x86
Windows	Microsoft	Feature Update to Windows 11, version 23H2 (KB5027397) - x64
Windows	Microsoft	Feature Update to Windows 11, version 25H2 (KB5054156) - arm64
Windows	Microsoft	Feature Update to Windows 11, version 25H2 (KB5054156) - x64
Windows	Microsoft	IIS URL Rewrite Module 2 x64
Windows	Microsoft	IIS URL Rewrite Module 2 x86
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 1809 x64 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 1809 x64 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 1809 x64 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 1809 x86 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 1809 x86 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 1809 x86 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x64 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x64 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x64 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x86 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x86 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x86 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x64 - Phase1 - Pre-Cache

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Platform	Vendor	Title
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x64 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x64 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x86 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x86 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 20H2 x86 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 x64 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 x64 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 x64 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 x86 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 x86 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H1 x86 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 x64 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 x64 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 x64 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 x86 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 x86 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 21H2 x86 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 x64 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 x64 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 x64 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 x86 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 x86 - Phase2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 10 Version 22H2 x86 - Phase3 - Upgrade

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Platform	Vendor	Title
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 21H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 21H2 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 21H2 - Phase2 - Re-scan
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 21H2 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 22H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 22H2 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 22H2 - Phase2 - Re-scan
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 22H2 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 23H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 23H2 - Phase1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 23H2 - Phase2 - Re-scan
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 23H2 - Phase3 - Upgrade
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 24H2 - Phase1 - Direct-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 24H2 -Phase 1 - Pre-Cache
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 24H2 - Phase 2 - Re-Scan
Windows	Microsoft	InPlace Upgrade to Windows 11 Version 24H2 - Phase 3 - Upgrade
Windows	Microsoft	Latest Cumulative Update for Windows 10 Version 1607 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 10 Version 1607 for x86-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 22H2 for arm64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 22H2 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 23H2 for arm64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 23H2 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 24H2 for arm64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 24H2 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 25H2 for arm64-based Systems

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Platform	Vendor	Title
Windows	Microsoft	Latest Cumulative Update for Windows 11 Version 25H2 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows Server 2016 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows Server 2019 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows Server 2022 for x64-based Systems
Windows	Microsoft	Latest Cumulative Update for Windows Server 2025 for x64-based Systems
Windows	Microsoft	Local Administrator Password Solution x64
Windows	Microsoft	Local Administrator Password Solution x86
Windows	Microsoft	Microsoft Azure CLI (32-bit)
Windows	Microsoft	Microsoft Azure CLI (64-bit)
Windows	Microsoft	ODBC Driver 17 for SQL Server (x64)
Windows	Microsoft	ODBC Driver 17 for SQL Server (x86)
Windows	Microsoft	ODBC Driver 18 for SQL Server (x64)
Windows	Microsoft	ODBC Driver 18 for SQL Server (x86)
macOS	Microsoft	Office 2019
macOS	Microsoft	Office 2019 with Teams
Windows	Microsoft	Office Click-to-Run Current Channel (x64)
Windows	Microsoft	Office Click-to-Run Current Channel (x64) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Current Channel (x86)
Windows	Microsoft	Office Click-to-Run Current Channel (x86) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Monthly Enterprise Channel (x64)
Windows	Microsoft	Office Click-to-Run Monthly Enterprise Channel (x64) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Monthly Enterprise Channel (x86)
Windows	Microsoft	Office Click-to-Run Monthly Enterprise Channel (x86) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Office 2019 Perpetual Enterprise (x64)
Windows	Microsoft	Office Click-to-Run Office 2019 Perpetual Enterprise (x64) - Pre-Cache

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Platform	Vendor	Title
Windows	Microsoft	Office Click-to-Run Office 2019 Perpetual Enterprise (x86)
Windows	Microsoft	Office Click-to-Run Office 2019 Perpetual Enterprise (x86) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Office 2021 Perpetual Enterprise (x64)
Windows	Microsoft	Office Click-to-Run Office 2021 Perpetual Enterprise (x64) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Office 2021 Perpetual Enterprise (x86)
Windows	Microsoft	Office Click-to-Run Office 2021 Perpetual Enterprise (x86) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Office 2024 Perpetual Enterprise (x64)
Windows	Microsoft	Office Click-to-Run Office 2024 Perpetual Enterprise (x64) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Office 2024 Perpetual Enterprise (x86)
Windows	Microsoft	Office Click-to-Run Office 2024 Perpetual Enterprise (x86) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Semi-Annual Enterprise Channel (x64)
Windows	Microsoft	Office Click-to-Run Semi-Annual Enterprise Channel (x64) - Pre-Cache
Windows	Microsoft	Office Click-to-Run Semi-Annual Enterprise Channel (x86)
Windows	Microsoft	Office Click-to-Run Semi-Annual Enterprise Channel (x86) - Pre-Cache
Windows	Microsoft	OLE DB Driver 18 for SQL Server (x64)
Windows	Microsoft	OLE DB Driver 18 for SQL Server (x86)
Windows	Microsoft	OLE DB Driver 19 for SQL Server (x64)
Windows	Microsoft	OLE DB Driver 19 for SQL Server (x86)
Windows	Microsoft	Paint 3D - Remove Only
Windows	Microsoft	Power BI Desktop
Windows	Microsoft	Power BI Desktop (x64)
Windows	Microsoft	Power BI Report Builder
macOS	Microsoft	Powershell
Windows	Microsoft	Powershell (arm64)
Windows	Microsoft	Powershell (x64)

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Platform	Vendor	Title
Windows	Microsoft	Powershell (x86)
Windows	Microsoft	PowerShell 5.1 x64 for Windows 7 and Windows Server 2008 R2
Windows	Microsoft	PowerShell 5.1 x64 for Windows 8.1 and Windows Server 2012 R2
Windows	Microsoft	PowerShell 5.1 x64 for Windows Server 2012
Windows	Microsoft	Remote Desktop (32-bit)
Windows	Microsoft	Remote Desktop (64-bit)
Windows	Microsoft	Remote Desktop (arm64)
Windows	Microsoft	Skype Desktop Client (x86) - Remove Only
Windows	Microsoft	SQL Server Management Studio 19
Windows	Microsoft	SQL Server Management Studio 20
Windows	Microsoft	SQL Server Management Studio 21
Windows	Microsoft	SQL Server Management Studio 22
macOS	Microsoft	Teams
Windows	Microsoft	Teams x64
Windows	Microsoft	Teams x86
Windows	Microsoft	Teams Classic (x64)
Windows	Microsoft	Teams Classic (x86)
Windows	Microsoft	Teams Classic Machine-Wide Installer (x64)
Windows	Microsoft	Teams Classic Machine-Wide Installer (x86)
Windows	Microsoft	Update for Removal of Adobe Flash Player (KB4577586)
Windows	Microsoft	Visual C++ Redistributable (Arm64)
Windows	Microsoft	Visual C++ Redistributable (x64)
Windows	Microsoft	Visual C++ Redistributable (x86)
macOS	Microsoft	Visual Studio Code
Windows	Microsoft	Visual Studio Code (x64 en-us)

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Platform	Vendor	Title
Windows	Microsoft	Visual Studio Code (x86 en-us)
macOS	Microsoft	Windows App
Windows	Microsoft	Windows App (32-bit)
Windows	Microsoft	Windows App (64-bit)
Windows	Microsoft	Windows App (Arm64)
Windows	Microsoft	Windows Upgrade Cleanup
macOS	Mozilla	Firefox
Windows	Mozilla	Firefox (AArch64 da)
Windows	Mozilla	Firefox (AArch64 de)
Windows	Mozilla	Firefox (AArch64 el)
Windows	Mozilla	Firefox (AArch64 en-CA)
Windows	Mozilla	Firefox (AArch64 en-GB)
Windows	Mozilla	Firefox (AArch64 en-US)
Windows	Mozilla	Firefox (AArch64 en-AR)
Windows	Mozilla	Firefox (AArch64 en-CL)
Windows	Mozilla	Firefox (AArch64 en-ES)
Windows	Mozilla	Firefox (AArch64 en-MX)
Windows	Mozilla	Firefox (AArch64 fr)
Windows	Mozilla	Firefox (AArch64 hu)
Windows	Mozilla	Firefox (AArch64 it)
Windows	Mozilla	Firefox (AArch64 ja)
Windows	Mozilla	Firefox (AArch64 nl)
Windows	Mozilla	Firefox (AArch64 pt-BR)
Windows	Mozilla	Firefox (AArch64 pt-PT)
Windows	Mozilla	Firefox (AArch64 sv-SE)

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Platform	Vendor	Title
Windows	Mozilla	Firefox (AArch64 tr)
Windows	Mozilla	Firefox (x64 da)
Windows	Mozilla	Firefox (x64 de)
Windows	Mozilla	Firefox (x64 el)
Windows	Mozilla	Firefox (x64 en-CA)
Windows	Mozilla	Firefox (x64 en-GB)
Windows	Mozilla	Firefox (x64 en-US)
Windows	Mozilla	Firefox (x64 es-AR)
Windows	Mozilla	Firefox (x64 es-CL)
Windows	Mozilla	Firefox (x64 es-ES)
Windows	Mozilla	Firefox (x64 es-MX)
Windows	Mozilla	Firefox (x64 fr)
Windows	Mozilla	Firefox (x64 hu)
Windows	Mozilla	Firefox (x64 it)
Windows	Mozilla	Firefox (x64 ja)
Windows	Mozilla	Firefox (x64 nl)
Windows	Mozilla	Firefox (x64 pt-BR)
Windows	Mozilla	Firefox (x64 pt-PT)
Windows	Mozilla	Firefox (x64 sv-SE)
Windows	Mozilla	Firefox (x64 tr)
Windows	Mozilla	Firefox (x86 da)
Windows	Mozilla	Firefox (x86 de)
Windows	Mozilla	Firefox (x86 el)
Windows	Mozilla	Firefox (x86 en-CA)
Windows	Mozilla	Firefox (x86 en-GB)

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Platform	Vendor	Title
Windows	Mozilla	Firefox (x86 en-US)
Windows	Mozilla	Firefox (x86 es-AR)
Windows	Mozilla	Firefox (x86 es-CL)
Windows	Mozilla	Firefox (x86 es-ES)
Windows	Mozilla	Firefox (x86 es-MX)
Windows	Mozilla	Firefox (x86 fr)
Windows	Mozilla	Firefox (x86 hu)
Windows	Mozilla	Firefox (x86 it)
Windows	Mozilla	Firefox (x86 ja)
Windows	Mozilla	Firefox (x86 nl)
Windows	Mozilla	Firefox (x86 pt-BR)
Windows	Mozilla	Firefox (x86 pt-PT)
Windows	Mozilla	Firefox (x86 sv-SE)
Windows	Mozilla	Firefox (x86 tr)
Windows	Mozilla	Firefox ESR (AArch64 da)
Windows	Mozilla	Firefox ESR (AArch64 de)
Windows	Mozilla	Firefox ESR (AArch64 el)
Windows	Mozilla	Firefox ESR (AArch64 en-CA)
Windows	Mozilla	Firefox ESR (AArch64 en-GB)
Windows	Mozilla	Firefox ESR (AArch64 en-US)
Windows	Mozilla	Firefox ESR (AArch64 en-AR)
Windows	Mozilla	Firefox ESR (AArch64 en-CL)
Windows	Mozilla	Firefox ESR (AArch64 en-ES)
Windows	Mozilla	Firefox ESR (AArch64 en-MX)
Windows	Mozilla	Firefox ESR (AArch64 fr)

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Platform	Vendor	Title
Windows	Mozilla	Firefox ESR (AArch64 hu)
Windows	Mozilla	Firefox ESR (AArch64 it)
Windows	Mozilla	Firefox ESR (AArch64 ja)
Windows	Mozilla	Firefox ESR (AArch64 nl)
Windows	Mozilla	Firefox ESR (AArch64 pt-BR)
Windows	Mozilla	Firefox ESR (AArch64 pt-PT)
Windows	Mozilla	Firefox ESR (AArch64 sv-SE)
Windows	Mozilla	Firefox ESR (AArch64 tr)
Windows	Mozilla	Firefox ESR (x64 da)
Windows	Mozilla	Firefox ESR (x64 de)
Windows	Mozilla	Firefox ESR (x64 el)
Windows	Mozilla	Firefox ESR (x64 en-CA)
Windows	Mozilla	Firefox ESR (x64 en-GB)
Windows	Mozilla	Firefox ESR (x64 en-US)
Windows	Mozilla	Firefox ESR (x64 es-AR)
Windows	Mozilla	Firefox ESR (x64 es-CL)
Windows	Mozilla	Firefox ESR (x64 es-ES)
Windows	Mozilla	Firefox ESR (x64 es-MX)
Windows	Mozilla	Firefox ESR (x64 fr)
Windows	Mozilla	Firefox ESR (x64 hu)
Windows	Mozilla	Firefox ESR (x64 it)
Windows	Mozilla	Firefox ESR (x64 ja)
Windows	Mozilla	Firefox ESR (x64 nl)
Windows	Mozilla	Firefox ESR (x64 pt-BR)
Windows	Mozilla	Firefox ESR (x64 pt-PT)

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Platform	Vendor	Title
Windows	Mozilla	Firefox ESR (x64 sv-SE)
Windows	Mozilla	Firefox ESR (x64 tr)
Windows	Mozilla	Firefox ESR (x86 da)
Windows	Mozilla	Firefox ESR (x86 de)
Windows	Mozilla	Firefox ESR (x86 el)
Windows	Mozilla	Firefox ESR (x86 en-CA)
Windows	Mozilla	Firefox ESR (x86 en-GB)
Windows	Mozilla	Firefox ESR (x86 en-US)
Windows	Mozilla	Firefox ESR (x86 es-AR)
Windows	Mozilla	Firefox ESR (x86 es-CL)
Windows	Mozilla	Firefox ESR (x86 es-ES)
Windows	Mozilla	Firefox ESR (x86 es-MX)
Windows	Mozilla	Firefox ESR (x86 fr)
Windows	Mozilla	Firefox ESR (x86 hu)
Windows	Mozilla	Firefox ESR (x86 it)
Windows	Mozilla	Firefox ESR (x86 ja)
Windows	Mozilla	Firefox ESR (x86 nl)
Windows	Mozilla	Firefox ESR (x86 pt-BR)
Windows	Mozilla	Firefox ESR (x86 pt-PT)
Windows	Mozilla	Firefox ESR (x86 sv-SE)
Windows	Mozilla	Firefox ESR (x86 tr)
macOS	Mozilla	Thunderbird ESR
Windows	Mozilla	Thunderbird ESR (x64 en-US)
Windows	Mozilla	Thunderbird ESR (x64 fr)

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N-S

Platform	Vendor	Title
macOS	Nmap	Nmap
Windows	Node.js Foundation	Node.js Current x64
Windows	Node.js Foundation	Node.js LTS x64
Windows	Node.js Foundation	Node.js LTS x86
Windows	Notepad++ Team	Notepad++ 32-bit
Windows	Notepad++ Team	Notepad++ 64-bit
Windows	Notepad++ Team	Notepad++ ARM
macOS Windows	OBS Studio	OBS Studio
macOS	OBS Studio	OBS Studio (ARM)
Windows	Omnissa	Horizon Client
macOS	OpenVPN Technologies	OpenVPN Connect
macOS	OpenVPN Technologies	OpenVPN Connect (ARM)
Windows	OpenVPN Technologies	OpenVPN Connect 3 (x64)
Windows	OpenVPN Technologies	OpenVPN Connect 3 (x86)
Windows	Oracle	Java SE Runtime Environment 8
Windows	Oracle	Java SE Runtime Environment 8 (x64)
Windows	Oracle	MySQL Community
macOS	Oracle	VirtualBox
macOS	Oracle	VirtualBox (ARM)
Windows	Parallels International GmbH	Parallels Client (32-bit)
Windows	Parallels International GmbH	Parallels Client (64-bit)
Windows	Perforce	Helix Core Apps
Windows	pgAdmin	pgAdmin 4
Windows	Ping Identity	PingID

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Platform	Vendor	Title
Windows	Piriform Software	CCleaner Standard
macOS Windows	Postman	Postman
macOS	Postman	Postman (ARM)
Windows	RealVNC	RealVNC Connect
Windows	RealVNC	RealVNC Server
Windows	RealVNC	RealVNC Viewer
macOS	RingCentral	RingCentral (ARM)
macOS	RingCentral	RingCentral (Intel)
Windows	RingCentral	RingCentral
Windows	Rocket.Chat	Rocket.Chat (Active User) x64
Windows	Rocket.Chat	Rocket.Chat (Active User) x86
Windows	Rocket.Chat	Rocket.Chat (All Users) x64
Windows	Rocket.Chat	Rocket.Chat (All Users) x86
macOS	Royal Apps	Royal TS
Windows	Royal Apps GmbH	Royal TS
macOS	Running with Crayons Ltd	Alfred 5
macOS	Scooter Software	Beyond Compare
Windows	Scooter Software	Beyond Compare 4
Windows	Simon Tatham	PuTTY (arm64 en-US)
Windows	Simon Tatham	PuTTY (x64 en-US)
Windows	Simon Tatham	PuTTY (x86 en-US)
macOS	Slack	Slack
Windows	Slack	Slack x64
Windows	Sober Lemur S.r.l.	PDFsam Basic (64-bit)
Windows	SonicWall Inc.	NetExtender (x86)

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Platform	Vendor	Title
Windows	SonicWall Inc.	NetExtender (x64)
Linux	Splunk	Universal Forwarder (x64 DPKG)
Linux	Splunk	Universal Forwarder (x64 RPM)
Windows	Splunk	Universal Forwarder x64
Windows	Splunk	Universal Forwarder x86
Windows	SQLBI	DAX Studio
Windows	Stairwell	Inception Forwarder
Windows	Stamps.com, Inc	Stamps.com (x64)
Windows	Stamps.com, Inc	Stamps.com (x86)

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Platform	Vendor	Title
macOS Windows	Tableau	Desktop 2023[1]
macOS Windows	Tableau	Desktop 2024[1]
macOS Windows	Tableau	Desktop 2025[1]
macOS	Tableau	Reader 2024[1]
Windows	Tableau	Reader 2024 x64[1]
macOS	Tableau	Reader 2025[1]
Windows	Tableau	Reader 2025 x64[1]
macOS	TeamViewer	Host
Windows	TeamViewer	Host x64
Windows	TeamViewer	Host x86
macOS Windows	TeamViewer	Meeting

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Platform	Vendor	Title
macOS	TeamViewer	TeamViewer
Windows	TeamViewer	TeamViewer x64
Windows	TeamViewer	TeamViewer x86
macOS Windows	TechSmith	Camtasia 2023
macOS Windows	TechSmith	Camtasia 2024
macOS Windows	TechSmith	Camtasia 2025
macOS Windows	TechSmith	Snagit 2023
macOS Windows	TechSmith	Snagit 2024
macOS Windows	TechSmith	Snagit 2025
macOS	The Document Foundation	LibreOffice (ARM)
macOS	The Document Foundation	LibreOffice (Intel)
Windows	The Document Foundation	LibreOffice (x64)
Windows	The Document Foundation	LibreOffice (x86)
Windows	The Wireshark developer community	Wireshark 32-bit
Windows	The Wireshark developer community	Wireshark 64-bit
Windows	Thingamahoochie Software	WinMerge 32-bit
Windows	Thingamahoochie Software	WinMerge 64-bit
Windows	3T Software Labs Ltd	Studio 3T (Active User)
Windows	3T Software Labs Ltd	Studio 3T (All Users)
macOS	3T Software Labs Ltd	Studio 3T (Arm)

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Platform	Vendor	Title
macOS	3T Software Labs Ltd	Studio 3T (Intel)
Windows	TortoiseSVN	TortoiseSVN (32-bit)
Windows	TortoiseSVN	TortoiseSVN (64-bit)

[1] The Predefined Package Gallery includes software packages that contain files hosted on Github and other insecure content distribution networks that Tanium blocks by default. For information about editing a software package to manually add inaccessible files, see Deploy cannot access the origin of a software package file on page 173.

U-Z

Platform	Vendor	Title
macOS Windows	Ubiquiti	WiFiman Desktop (arm64)
macOS Windows	Ubiquiti	WiFiman Desktop (x64)
macOS	VideoLAN	VLC media player
Windows	VideoLAN	VLC media player (32-bit)
Windows	VideoLAN	VLC media player (64-bit)
macOS	Vivaldi Technologies	Vivaldi
Windows	Vivaldi Technologies	Vivaldi (32-bit)
Windows	Vivaldi Technologies	Vivaldi (64-bit)
Windows	Vivaldi Technologies	Vivaldi (arm64)
Windows	VMware	VMware Tools (32-bit)
Windows	VMware	VMware Tools (64-bit)
Windows	win.rar GmbH	WinRAR 64-bit
macOS	Yubico	Authenticator
Windows	Yubico	Authenticator 32-bit
Windows	Yubico	Authenticator 64-bit
Windows	Zoom	Outlook Plugin

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Platform	Vendor	Title
macOS Windows	Zoom	Zoom
Windows	Zoom	Zoom - Active User - Remove Only
macOS	Zoom	Zoom (ARM)
macOS	Zoom	Zoom Gov
macOS	Zoom	Zoom Gov (ARM)
macOS	Zoom	Zoom Rooms
Windows	Zoom	Zoom Rooms (32-bit)
Windows	Zoom	Zoom Rooms (64-bit)
Windows	Zoom	Zoom (64-bit)
Windows	Zscaler Inc.	Client Connector (32 bit)
Windows	Zscaler Inc.	Client Connector (64 bit)

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Reference: Gateway examples for Deploy

For additional Gateway example syntax, see Tanium Gateway User Guide: Reference: Filter syntax and Tanium Gateway User Guide: Reference: Gateway examples.

Deploy examples

The following queries and mutation require Deploy, retrieve information about software packages deployed in your environment, and allow you to deploy a software package to endpoints.

Deploy a package to all endpoints (`mutation.manageSoftware`)

DEPLOY PACKAGE TO ENDPOINTS

The following mutation deploys a package to `All Computers`.

```
mutation exampleDeployPackage($group:String) {
  manageSoftware(
    operation: INSTALL
    softwarePackageID: 2
    start: "2021-10-27T00:00:00Z"
    end: "2021-11-03T00:00:00Z"
    target: {targetGroup: $group}
  ) {
    ID
    name
  }
}
```

Include the computer group variable in the **Variables** panel or in your variables dictionary:

```
{
  "group": "All Computers"
}
```

Example response:

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```
{
  "data": {
    "manageSoftware": {
      "ID": "2",
      "name": "Install Tanium Standard Utilities (Linux)"
    }
  }
}
```

Get Deploy packages (`query.softwarePackages`)

GET ALL DEPLOY PACKAGES

The following query retrieves all Deploy packages.

```
query exampleGetDeployPackages {
  softwarePackages {
    edges {
      node {
        id
        productName
        productVendor
        productVersion
      }
    }
  }
}
```

Example response:

```
{
  "data": {
    "softwarePackages": {
      "edges": [
        {
```

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```
            "node": {
              "id": "19",
              "productName": "Firefox (x64 en-US)",
              "productVendor": "Mozilla",
              "productVersion": "98.0"
            }
          },
          {
            "node": {
              "id": "30",
              "productName": "Power BI Desktop (x64)",
              "productVendor": "Microsoft",
              "productVersion": "2.102.845.0"
            }
          },
          {
            "node": {
              "id": "43",
              "productName": "VLC media player (64-bit)",
              "productVendor": "VideoLAN",
              "productVersion": "3.0.16.0"
            }
          },
          {
            "node": {
              "id": "46",
              "productName": "Visual Studio Code (x64 en-us)",
              "productVendor": "Microsoft",
              "productVersion": "1.65.2"
            }
          }
        ]
      }
    }
}
```


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Get software deployment status (`query.softwareDeployment`)

GET STATUS OF SOFTWARE DEPLOYMENT

The following query retrieves the deployment status of all Deploy packages.

```
query exampleGetSoftwareDeploymentStatus {
  softwareDeployment {
    ID
    name
    status {
      completeCount
      downloadCompleteWaitingCount
      downloadingCount
      failedCount
      notApplicableCount
      runningCount
      waitingCount
    }
    errors {
      error
      count
    }
  }
}
```

Example response:

```
{
  "data": {
    "softwareDeployment": [
      {
        "ID": "5",
        "name": "Install Tanium Standard Utilities",
        "status": {
          "completeCount": 1,
```

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```
            "downloadCompleteWaitingCount": 0,
            "downloadingCount": 0,
            "failedCount": 0,
            "notApplicableCount": 0,
            "runningCount": 0,
            "waitingCount": 0
          },
          "errors": null
        },
        {
          "ID": "6",
          "name": "Install Tanium Standard Utilities (Linux)",
          "status": {
            "completeCount": 0,
            "downloadCompleteWaitingCount": 0,
            "downloadingCount": 1,
            "failedCount": 0,
            "notApplicableCount": 0,
            "runningCount": 0,
            "waitingCount": 0
          },
          "errors": null
        }
      ]
    }
}
```


LEGACY - Get package details (`query.packages`)



This is legacy in favor of `query.packageSpecs`.

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GET DETAILS OF ALL PACKAGES

> **NOTE** This is legacy in favor of `query.packageSpec`. For more information, see the `query.packageSpecs` example syntax.

The following query retrieves multiple fields for all packages.

```
query examplePackagesQuery {
  packages {
    items {
      id
      name
      displayName
      command
      commandTimeout
      expireSeconds
      contentSet {
        id
        name
      }
      processGroupFlag
      skipLockFlag
      metadata {
        adminFlag
        name
        value
      }
      sourceHash
      sourceHashChangedFlag
      sourceID
      sourceName
      parameters {
        key
        value
```

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```
      }
      rawParameterDefinition
      parameterDefinition {
        parameterType
        model
        parameters {
          model
          parameterType
          key
          label
          helpString
          defaultValue
          validationExpressions {
            model
            parameterType
            expression
            helpString
          }
          promptText
          heightInLines
          maxChars
          values
          restrict
          allowEmptyList
          minimum
          maximum
          stepSize
          snapInterval
          dropdownOptions {
            model
            parameterType
            name
            value
          }
```

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```
      componentType
      startDateRestriction {
        model
        parameterType
        type
        interval
        intervalCount
        unixTimeStamp
      }
      endDateRestriction {
        model
        parameterType
        type
        interval
        intervalCount
        unixTimeStamp
      }
      startTimeRestriction {
        model
        parameterType
        type
        interval
        intervalCount
        unixTimeStamp
      }
      endTimeRestriction {
        model
        parameterType
        type
        interval
        intervalCount
        unixTimeStamp
      }
      allowDisableEnd
```

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```
            defaultRangeStart {
              model
              parameterType
              type
              interval
              intervalCount
              unixTimeStamp
            }
            defaultRangeEnd {
              model
              parameterType
              type
              interval
              intervalCount
              unixTimeStamp
            }
            separatorText
          }
        }
        verifyExpireSeconds
      }
    }
}
```

Example response:

```
{
  "data": {
    "packages": {
      "items": [
        {
          "id": "1",
          "name": "Distribute Tanium Standard Utilities",
          "displayName": "Distribute Tanium Standard Utilities",
```

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```
          "command": "cmd.exe /c cscript.exe //E:VBScript install-standard-utils.vbs \"Tools\\StdUtils\"",
          "commandTimeout": 2700,
          "expireSeconds": 3300,
          "contentSet": {
            "id": "5",
            "name": "Client Management"
          },
          "processGroupFlag": true,
          "skipLockFlag": false,
          "metadata": [],
          "sourceHash": "60b3e906f92929da67341792db9675d5cd91686546f01b57857686c8c6d84fa8",
          "sourceHashChangedFlag": false,
          "sourceID": 0,
          "sourceName": "",
          "parameters": [],
          "rawParameterDefinition": null,
          "parameterDefinition": null,
          "verifyExpireSeconds": 600
        },
        {
          "id": "2",
          "name": "Distribute Tanium Standard Utilities (Linux)",
          "displayName": "Distribute Tanium Standard Utilities (Linux)",
          "command": "/bin/bash distribute-tools.sh STRICT",
          "commandTimeout": 120,
          "expireSeconds": 720,
          "contentSet": {
            "id": "5",
            "name": "Client Management"
          },
          "processGroupFlag": true,
          "skipLockFlag": false,
          "metadata": [],
```


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```
          "sourceHash":
"4ed7a30a1ca6c81be5a71b892dfadcdb489122cc641fa4b644f53255134215c9",
          "sourceHashChangedFlag": false,
          "sourceID": 0,
          "sourceName": "",
          "parameters": [],
          "rawParameterDefinition": null,
          "parameterDefinition": null,
          "verifyExpireSeconds": 600
        }
      ]
    }
  }
}
```

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Reference: Deploy endpoint tools

Endpoint Configuration installs Deploy tools on endpoints. You can check the status of these tools with the **Get Endpoint Configuration - Tools Status** sensor.

Tool	Description
core-cx	`<Tanium Client>\extensions\core` Tanium Client extension that provides a management framework API for all other client extensions and exposes operating system metrics.
cx-config	`<Tanium Client>\extensions\config` Tanium Client extension that provides installation and configuration of extensions on an endpoint.
Deploy	`<Tanium Client>\Tools\Deploy` This tool and its directory are no longer targeted or used. You can safely uninstall this tool.
Deploy - Euss Tool Wrapper and **Tanium EUSS**	• `<Tanium Client>\Tools\DeployEussToolWrapper` Deploy - Euss Tool Wrapper installs End-User Self Service (EUSS) for Deploy on Windows endpoints. The `version` file in this directory indicates the current version of EUSS required by Deploy. NOTE Patch and End-User Notifications use unique Euss Tool Wrappers to indicate the required EUSS versions for the solutions. Separate tool wrappers for each solution allow for independent solution installations and upgrades. • `<Tanium Client>\Tools\euss` EUSS code. When a user runs the Self Service Client, Tanium writes logs to `%localappdata%\tanium-end-user-self-service`.When a user clicks a Deploy tile or deployment in Self Service, Tanium generates an activity file in `%localappdata%\tanium-end-user-self-service`. If you are uninstalling or reinstalling EUSS, generally target Tanium EUSS and not the wrapper. If you are using End-User Self Service and notifications, Deploy also uses the **End-User Notifications** tool. For more information, see Tanium End-User Notifications User Guide: Reference: End-User Notifications tool.
extras-cx	`<Tanium Client>\extensions\extras` Tanium Client extension that provides a helper library that contains re-usable functions for various client extensions to use.
index-cx	`<Tanium Client>\extensions\index` Tanium Client Extension that runs Tanium Index. If an endpoint uses both Asset and Deploy, Index must be installed for Deploy on the endpoint. Index is not used by Deploy but is a dependency of **swmgr-cx**. You can disable but not uninstall Index on Deploy endpoints.

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Tool	Description
performance-cx[1]	`<Tanium Client>\extensions\performance` Tanium Client Extension that provides Tanium Performance functions on endpoints.
performance-tsdb[1]	`<Tanium Client>\Tools\PerformanceTSDB` The Time Series Data Store in which Tanium Performance stores metrics on endpoints. For disk space requirements, see Disk space requirements on page 34.
python312	`<Tanium Client>\python312` TPython binary and libraries installed by Endpoint Configuration. TPython executes Software Management and its associated code. NOTE **python312** is also used by other Tanium solutions and is commonly found on endpoints managed using Tanium Client.
Software Management	`<Tanium Client>\Tools\SoftwareManagement` The long-running Python Deploy process and platform-specific scripts. This directory also includes file downloads, logs, database files, and other artifacts.
swmgr-cx (or Software Manager)	`<Tanium Client>\extensions\software_manager` Tanium Client extension that starts Software Management, the Deploy process. Software Manager is also used for Client Management Endpoint Must Gathers. IMPORTANT Software Management and Software Manager are different tools, although their names are similar. NOTE Software Manager is also used by Patch and Asset.

[1] This tool can be blocked and uninstalled without affecting Deploy endpoint tools upgrades.

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Reference: Applicability rule syntax

Software package applicability rules consist of attributes and operators.

Attributes

Attribute	Usage
Installed Application Name	Check if the name of the installed application and type meets the operator value and the other values. The attribute is case insensitive, even with regular expression operators. For more information, see (Windows) Installed Application attribute usage on page 250. NOTE • (Windows) The *Type* value is only supported on endpoints running Software Management 10.5 or later, which is included in Toolset 2.12. To maintain compatibility with older tools, select exactly **Type equals any of 32-bit HKLM, 64-bit HKLM, Active User**. Older tools always behave as if these types were specified and do not support detection of MSIX applications.  • (macOS) The *Path* value is only supported on endpoints running Software Management 10.9 or later, which is included in Toolset 2.15. To maintain compatibility with older tools, ensure that you clear the field and that the field shows **any path**.  • For more information about upgrading endpoint toolsets, see Managing Tanium Client and endpoint tool upgrade rollouts.

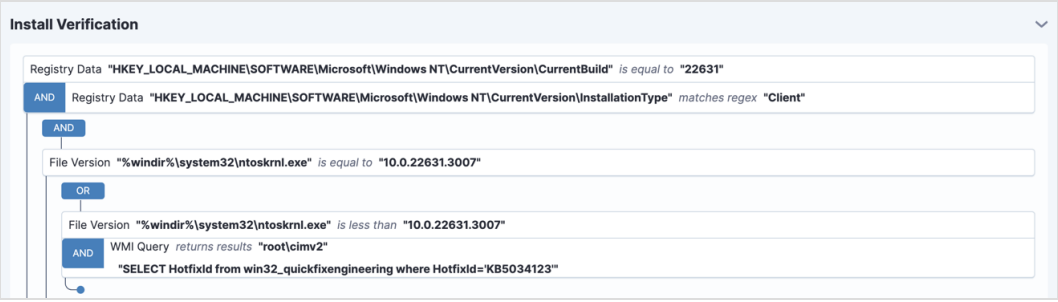
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Attribute	Usage
Installed Application Version	Check if the name, version, and type of the installed application meets the operator value and the other values. The attribute is case insensitive, even with regular expression operators. For more information, see (Windows) Installed Application attribute usage on page 250. NOTE • (Windows) The *Type* value is only supported on endpoints running Software Management 10.5 or later, which is included in Toolset 2.12. To maintain compatibility with older tools, select exactly **Type equals any of 32-bit HKLM, 64-bit HKLM, Active User**. Older tools always behave as if these types were specified and do not support detection of MSIX applications.  • (macOS) The *Path* value is only supported on endpoints running Software Management 10.9 or later, which is included in Toolset 2.15. To maintain compatibility with older tools, ensure that you clear the field and that the field shows **any path**.  • For more information about upgrading endpoint toolsets, see Managing Tanium Client and endpoint tool upgrade rollouts.
Registry Path	(Windows only) Check if a registry key or value exists at the specified path. For more information, see Registry and file path attribute usage on page 251.
Registry Data	(Windows only) Check if the data of the registry value path meets criteria. If a registry key is specified, the data of the key default value is checked. The rule always evaluates false if the specified path does not exist. For more information, including an Acrobat Reader example, see Registry and file path attribute usage on page 251. Review the following items: • Enter REG_DWORD values as decimals. • If you enter a version number as a REG_SZ string value, use the MAJOR.MINOR.PATCH format. Be sure to include the PATCH version, for example, 2.2.0. Including the PATCH version allows the full version number to be properly evaluated.
File Path	Check if the file path exists. For more information, see Registry and file path attribute usage on page 251.
File Version	(Windows only) Check if the file version of the file at the specified path meets criteria. The rule always evaluates false if the specified path does not exist. For a related example, review the Acrobat Reader example in Registry and file path attribute usage on page 251.

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Attribute	Usage
File Hash	Check if the file hash of the file at the specified path meets criteria. The rule always evaluates false if the specified path does not exist. For a related example, review the Acrobat Reader example in Registry and file path attribute usage on page 251. **CAUTION** Determining file hashes has a high cost on system resources. For best performance results, use only MD5 rules, where possible, and only use file hash rules for file sizes less than 100 MB.
File Size	Check if the file size of the file at the specified path meets criteria. The rule always evaluates false if the specified path does not exist. For a related example, review the Acrobat Reader example in Registry and file path attribute usage on page 251.
Folder Contents	Check if the contents (file or subfolder) in a folder meet the specified criteria. The rule always evaluates false if the specified path does not exist. **NOTE** The Folder Contents attribute is only supported on endpoints running Software Management 10.15 or later, which is included in Toolset 2.18.
Service Name	(Windows only) Check if the Windows service name meets criteria. Enter the service short name.
System Uptime	Check if the system uptime meets criteria. The rule is evaluated in milliseconds. For example, the `System Uptime is less than or equal to 1 Hour(s)` rule evaluates as false at one hour and one millisecond.

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Attribute	Usage
WMI Query	(Windows only) Perform a Windows Management Instrumentation (WMI) query to check if a value is returned. You can query information from WMI classes for any of the detection rules within a software package. If you use a WMI query, you cannot query against the `Win32_Product` WMI class. For more information about using WMI queries, see Microsoft Documentation: Windows Management Instrumentation and Microsoft Documentation: WQL (SQL for WMI). **CAUTION** WMI queries against certain namespaces, such as `Win32_QuickFixEngineering`, have a higher cost to system resources. For best performance results, nest WMI queries after other rules to prevent unnecessary execution. For examples and best practices, see Knowledge Article: Using WMI in Tanium Deploy for Package Verification. Example: The following install verification detects the installation status of a Windows update based on the file version of `ntoskrnl.exe`. The WMI query is not evaluated unless `ntoskrnl.exe` is less than the minimum value that it would be after installing this update or a future superseding update. 

Attribute operators

Attribute operator	Description
contains	The value contains the specified string.
does not contain	The value does not contain the specified string.
starts with	The value starts with the specified string.
matches regex	The value matches the specified regular expression. Regular expression rules match if any part of the checked item matches the rule, similar to a `contains` rule. To search for a more exact match, include at least one of the `^` or `$` anchors in the value.

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Attribute operator	Description
does not match regex	The value does not match the specified regular expression. Regular expression rules match if any part of the checked item matches the rule, similar to a `contains` rule. To search for a more exact match, include at least one of the `^` or `$` anchors in the value. Example: `Installed Application Name does not match regex ^Google Chrome$` This example is better than `Installed Application Name does not match regex Google Chrome` because it excludes Google Chromecast from the results.
equals any of	The value is equal to any of the specified values.
is equal to	The value is equal to the specified value.
is not equal to	The value is not equal to the specified value.
is less than	The value is less than the specified value.
is less than or equal to	The value is less than or equal to the specified value.
is greater than	The value is greater than the specified value.
is greater than or equal to	The value is greater than or equal to the specified value.
is running	The value is running.
is not running	The value is not running.
exists	The value exists.
does not exist	The value does not exist.

(Windows) Installed Application attribute usage

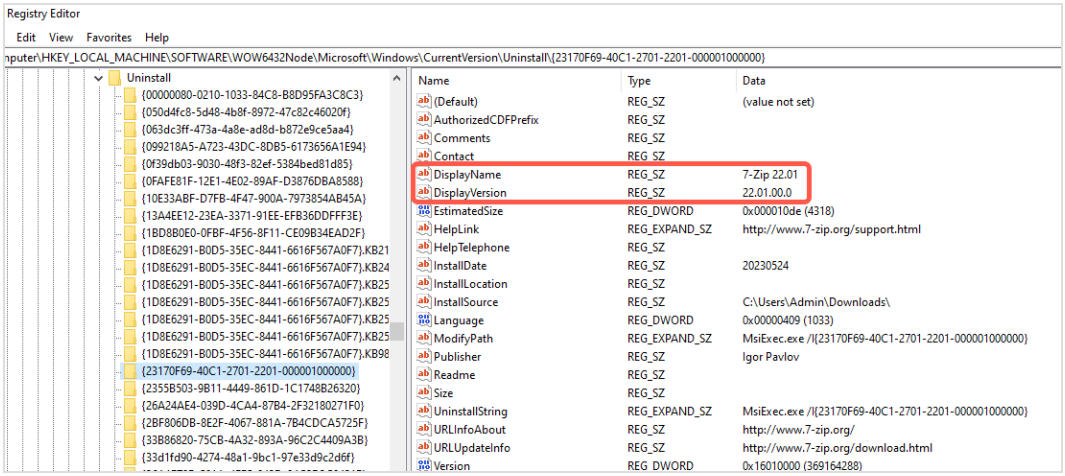
The **Installed Applications** sensor and **Installed Application** rules search the subkeys of registry locations based on the selected **Type**. You can select one or multiple types.

- **32-bit HKLM**: Evaluates the results of `HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall` on 32-bit Windows. Evaluates the results of `HKLM\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall` on 64-bit Windows.
- **64-bit HKLM**: Evaluates the results of `HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall` on 64-bit Windows.

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- **Active User**: Evaluates the results of the subkeys of each `Uninstall` key in each loaded user hive in `HKEY_USERS`. For example, `HKU\S-1-5-21-175372122-3884674885-3512333231-1001\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall`. If a subkey has a `DisplayName` and a `DisplayVersion` value, Deploy includes the subkey in the rule evaluation.
- **MSIX/APPX**:Evaluates the results of Windows.Management.Deployment.PackageManager.FindPackage(), similar to the Get-AppxPackage cmdlet in PowerShell.

The following example shows how the `DisplayName` and `DisplayVersion` values are used in the **Igor Pavlov 7-Zip (x86)** software package rules. In this Registry Editor screenshot, notice the data for the `DisplayName` and `DisplayVersion` values.



The **Update Detection** rule specifies that any 7-Zip (x86) application version less than 23.01.00.0 should be updated. The endpoint with the Registry Editor screenshot will be updated because the `DisplayVersion` is less than 23.01.00.0.



NOTE

The **Installed Applications** sensor searches for the same data but only returns results for keys that include an `UninstallString` or `SilentUninstallString` value. In rare situations, the Deploy **Installed Application** rules detect software installations that the **Installed Applications** sensor does not because Deploy returns results for keys that include a `DisplayName` or `DisplayVersion` value.

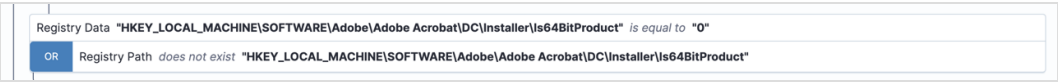
Registry and file path attribute usage

Review the following items before using registry and file paths in attributes:

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- Deploy automatically encloses file and registry paths in double quotation marks, so you do not need to use quotation marks for file or path names that contain spaces.
- Use `||ACTIVEUSERREGISTRY||` instead of `HKEY_CURRENT_USER` to refer to a registry path within an active user hive. `HKEY_CURRENT_USER` key paths are in the system account hive, not the active user hive.
- Use `||ACTIVEUSERPROFILE||` instead of `%userprofile%`, `%appdata%`, or `%localappdata%` environment variables. User-specific environment variables are populated by paths for the system account, not the active user.

  Use `||PROGRAMFILES||`, `||PROGRAMFILES32BIT||`, or `||PROGRAMFILES64BIT||` instead of `%programfiles%` or `C:\Program Files` for software folders that vary based on the endpoint architecture.
- To positively match a missing registry or file path, add an `OR` group to the rule. For example, **Acrobat Reader DC (en-us)** is 32-bit software and can be identified as 32-bit by the `is64BitProduct` value. Older software versions might not have the `is64BitProduct`value, so an `OR Registry Path does not exist` is added for the absence of the value. These two rules create a true check for all software versions.



- For more information on registry and file path variables, see Variables for Windows applicability scans and command-line operations on page 108.

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Reference: Deployment status

A Deployment Details page includes a **Status** section that provides the deployment progress across endpoints. The following table explains the possible deployment status groups and the sub-statuses. Endpoints return deployment statuses only if they are targeted endpoints.

Deployment status descriptions

Status group	Sub-status	Description and troubleshooting
Not Applicable	Configuration not available or not targeted	The endpoint is no longer targeted by the deployment. Most commonly, this sub-status means the deployment uses targeting criteria that was changed by the deployment. For example, if you create a deployment with an Adobe Acrobat Reader Update bundle and targeting criteria of `Deploy - Software Packages matches ".Adobe Acrobat Reader.*Update Eligible."`, the deployment updates Adobe Acrobat Reader on endpoints. The update changes the response to the **Deploy - Software Packages** sensor so that this deployment no longer applies.  BEST PRACTICE Use deployment targeting criteria based on attributes that cannot be changed by the deployment.
Not Applicable	Stopped before the deployment started	
Not Applicable	Software package *ID* is no longer applicable after task error. Updating status.	The software package encountered the error in the sub-status but the package is no longer applicable after running. Investigate the error message and endpoint log files for more information.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting

Not Applicable	• All software packages are not applicable to specified operations
	• Software package **Remove** operation sub-status:
	  ◦ Software package is *applicability* instead of Installed
	• Software package **Update** operation sub-statuses:
	  ◦ Software package is Installed instead of Update Eligible
	  ◦ Software package is Update Ineligible (System Requirements not met)
	  ◦ Software package is Install Eligible instead of Update Eligible
	  ◦ Software package is Not Applicable (Update Detection not met)
	• Software package **Install** operation sub-statuses:
	  ◦ Software package is already Installed
	  ◦ Software package is Update Eligible instead of Install Eligible (Update Detection met)
	  ◦ Software package is Update Ineligible (Update Detection met, System Requirements not met)
	  ◦ Software package is Not Applicable (System Requirements not met)
	  ◦ Software package is Not Applicable (Installation Requirements not met)
	  ◦ Software package is Update Ineligible (System Requirements not met)
	• Software package **Install or Update** operation sub-statuses:
	  ◦ Software package is already Installed
	  ◦ Software package is Update Ineligible (System Requirements not met)
	  ◦ Software package is Not Applicable (System Requirements not met)
	  ◦ Software package is Not Applicable (Update Detection and Installation Requirements not met)
		The deployment will not run because the software package operation is not applicable. The sub-status provides the current software package applicability status and high-level reason.
		If this sub-status is unexpected on an endpoint, investigate the software package applicability.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Waiting	Download Complete Waiting	The endpoint downloaded all software package files needed for this deployment but is waiting for the deployment start time or a maintenance window to open. This sub-status is most commonly the result of selecting **Download Immediately** and a future start time in the deployment settings.
Waiting	Waiting for initial evaluation	Deploy sent the deployment to the endpoint, but Deploy has not yet evaluated it. This sub-status should not persist for more than a few minutes.
Waiting	Waiting for maintenance window. Next window is at *time*	
Waiting	Waiting for maintenance window. No upcoming maintenance windows	
Waiting	Waiting for deployment start time *x*	
Waiting	Waiting for notification	
Waiting	Waiting for reboot	
Waiting	Waiting to run process	
Waiting	Waiting for updated software package catalog	The deployment includes a software package that the endpoint does not have. This sub-status should not persist for more than five minutes.
Waiting	Waiting for an active user	The deployment includes a software package with a command that runs as active user, but there is no active user logged in. To avoid this sub-status, use an `||ACTIVEUSERPROFILE||` or `||ACTIVEUSERREGISTRY||` applicability rule, which makes the software package **Not Applicable** if there is not an active user. For more information, see Variables for Windows applicability scans and command-line operations on page 108.
Waiting	Waiting for notification for deployment *ID* Waiting for deployment *ID* to finish running Waiting for deployment *ID* to finish running task *ID*	Another deployment is running. The current deployment is ready to run but will not run until the referenced deployment has finished running.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Downloading	Software package *ID* downloading files *x*%	
Downloading	Downloading required files	Software package files are downloading, but a download status cannot be reported yet.
Running	• Software package *ID* command *name* • Software package *ID* killing process *name* • Software package *ID* waiting for process *name* to exit • Software package *ID* copying *source* to *destination* • Software package *ID* deleting *path* • Software package *ID* creating *path* • Software package *ID* renaming *source* to *destination* • Software package *ID* extracting *source* to *destination*	The command step that is running.
Complete	Success	
Complete	Skipped	A command step encountered an error and was skipped. The command step is in a software package or a software package in a bundle that is set to **On Failure or Error: Continue**.
Complete	Success after re-scan	The deployment did not succeed initially, but after re-running an applicability scan, the software package is now in the targeted state. This sub-status most often happens if the software package installs software that is not fully installed until completing some additional activity, such as a security agent that must connect to a management server before it is fully installed. This sub-status might also indicate that something other than Deploy changed the state of this software shortly after this initial deployment did not succeed.
Complete	Success after step error *error details*	One of the software package commands received an error but the targeted software package applicability state is still achieved. This sub-status might indicate the exit code seen in the error details can be safely ignored or that the software package applicability rules are not fully detecting the state of the software.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Failed	CommandError: Software package <id> command <command-name> exited with code: <exit code>	The command returned an exit code other than the Success Codes that are defined in the command. For more information, see Troubleshooting: CommandError.
Failed	Software Package *ID* at edit_id *ID* is no longer present in the catalog	The specific revision of a software package was removed after the deployment started running. This sub-status can happen temporarily when a software package is edited during an active deployment. If it persists for more than 24 hours or appears on a new deployment of an unedited software package, this most likely indicates an issue. Gather endpoint logs and contact Tanium Support.
Failed	Software Package *name* (id: *ID*) applicability after *operation* is applicability	The deployment ran but did not reach the targeted applicability state (for example, **Installed** for an **Install or Update** deployment). Instead, the deployment resulted in another applicability state (for example, **Not Applicable** for an **Install or Update** deployment). This sub-status most often indicates a misconfiguration with the software package applicability rules. Review the sub-process log and the software package applicability.
Failed	Software package is *applicability* after *operation*. Task error *error details*	
Failed	Deployment ended before completing	The deployment stopped or reached the configured end time before it could complete. This sub-status might happen for one of the following reasons: • The deployment window was too short to download needed package files. • There was no active maintenance window during the deployment window. • The duration of notification period was too long and the end user did not accept the notification in time. • There was a persistent error and the deployment ended during a retry.

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Deployment status descriptions (continued)

Status group	Sub-status	Description and troubleshooting
Failed	Failed to import configuration	The deployment or software package configuration could not be imported. To investigate this rare status, verify security exclusions for Deploy and Endpoint Configuration. If this status persists or is repeatable, collect a full Endpoint Must Gather and contact Tanium Support.
Failed	Software package *ID* applicability reverted to *applicability* after *previous_deployment_status* deployment status and *attempt_count* attempts were made within *retry_reset_hours* hours. Will not retry for *retry_reset_hours* hours.	The deployment ran and initially succeeded but a software package applicability scan later detected the deployment needed to run again. If this happens enough to exceed the configured deployment **Retry Count** during the period of the deployment **Reset Frequency**, Deploy stops re-running the deployment and sets the deployment to this status. For more information, see Configure module settings on page 98. This sub-status might indicate an external system is undoing changes made by Deploy or that another deployment is undoing it. For example, if this is an **Install** deployment, a concurrent deployment that uninstalls this software might cause this problem.

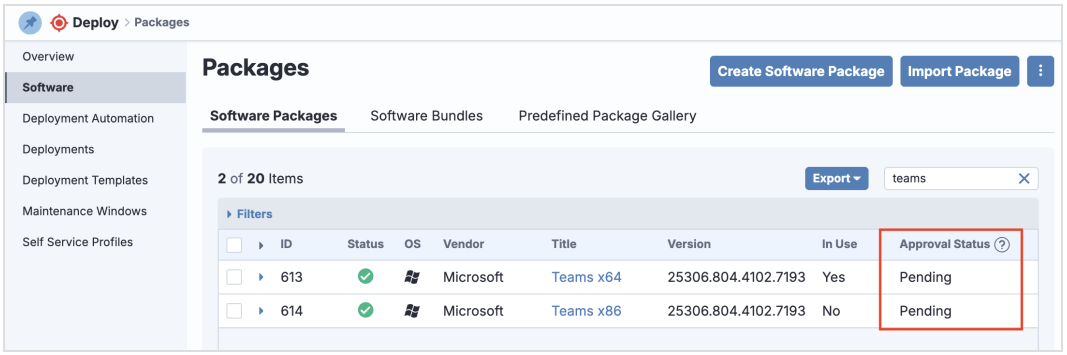
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Reference: Approval status

If you enabled configuration approvals, configuration changes for the following Deploy items need to be approved before the changes are deployed:

- Software packages
- Software bundles
- Maintenance windows
- Self Service profiles
- Deployments

On *List* pages, you can see an Approval status column that identifies whether the configuration change was approved.



On *Details* pages, you might see a warning banner stating that the particular configuration is pending, was rejected, or was rejected and dismissed.



IMPORTANT

Carefully review rejected configurations. If you make more changes, ensure that you do not include a change that was previously rejected and should not be re-sent for approval.

The following table explains the different statuses:

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Approval status descriptions

Approval status	Description
Approved	Changes were approved and the configurations are ready for use.
Approved and Dismissed	Changes were approved, and the configuration item was removed from the Approvals page in Endpoint Configuration.
Pending	Changes are waiting for approval before they take effect. The last approved configuration is used.
Rejected	Changes were rejected. The last approved configuration is used.
Rejected and Dismissed	Changes were rejected, and the configuration item was removed from the Approvals page in Endpoint Configuration.

Related links

Approve or reject configuration changes

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