

Tanium™ Benchmark User Guide

Autonomous IT. Unstoppable Business.

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Benchmark overview

Use Tanium Benchmark to understand the state of your security program, compared to other Tanium™ Cloud customers. You can use the reports to communicate key trends, improvements, and industry benchmarks for executive and board-level reporting. By using Benchmark to continuously monitor Tanium Client managed endpoints, you can improve your compliance and risk posture.

Benchmarks

Use benchmark metrics to compare your environment to other Tanium customers. Benchmark data is collected from Tanium Cloud customers, where contractually allowed. This data is stored in aggregate and anonymized.

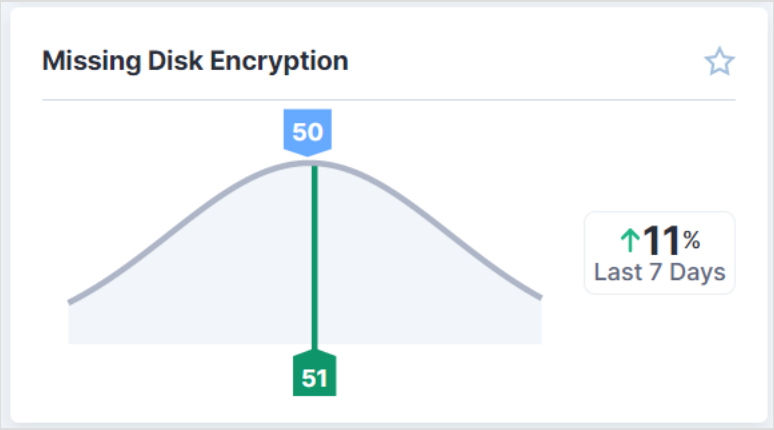
For each metric, the data is presented over time as a percentile value and by detailed data. You can compare your data to the benchmark values.

On the Benchmark home page, you can view the metrics as a **Percentile Distribution** or **Percentile Over Time** chart.

Percentile distribution

The **Percentile Distribution** chart for each metric is a bell chart distribution of values across all Tanium customers, and shows the target benchmark percentile you selected, along with your current percentile for the metric. The 50% indicator is the median for this data set. The center of the curve in the chart shows the mean of the data set. In the following example, the target benchmark percentile is 50, and your value is in the 51st percentile.

Missing Disk Encryption Percentile Distribution chart

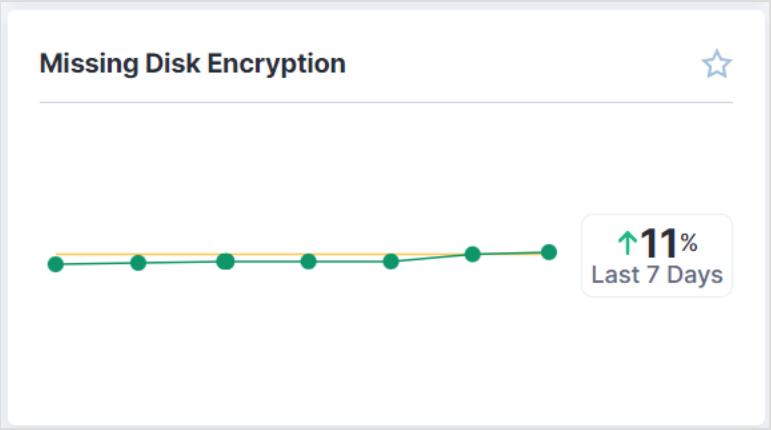


Percentile over time

The **Percentile Over Time** chart is a time series representation of the data. In the following example, the straight line represents the target benchmark and the data points for this metric in your environment for the selected time period.

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Missing Disk Encryption Percentile Over Time chart



For more information about Benchmark metrics, see Reviewing benchmark metrics on page 42.

Risk score

Tanium risk score 2.0 simplifies individual component calculation by using narrowly defined risk metrics instead of the broader risk vectors used in Tanium risk score 1.0. Risk metrics each measure one specific attribute.

IMPORTANT

You must have both Tanium Impact and Tanium Comply installed and configured to view the risk score.

NOTE

Tanium risk score 1.0 is also available in the user interface. For more information, see the Tanium Risk Score 1.0 User Guide.

The risk score is a numerical score that represents the overall risk of the enterprise based on data from every managed endpoint. The possible range for a risk score is 1-1000. A lower score indicates a lower risk for the enterprise or endpoint. Scores are categorized into low, medium, high, or critical:

- **Low:** 1-250
- **Medium:** 251-500
- **High:** 501-750
- **Critical:** 751-1000

Benchmark uses Tanium Data Service to include results for offline endpoints. For more information about Tanium Data Service, see Tanium Interact User Guide: Managing Tanium Data Service.

For more information, see Evaluating your risk score on page 39.

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Vulnerabilities

Benchmark evaluates the vulnerabilities in your environment and provides both an impact score and priority score for each vulnerability.

Vulnerability impact scores are calculated by multiplying CVSS score and the number of endpoints that contain the vulnerability. Vulnerability priority scores are a calculation of vulnerability impact scores and endpoint criticality values.

For more information, see Reviewing your vulnerability dashboards on page 60.

Tanium Risk Assessment

A Tanium Risk Assessment is a report of operational and security risks in your organization. The assessment is based on metrics and data points identified during the evaluation. The assessment provides dynamic scoring for each endpoint against multiple risks. The assessment is targeted at organizational executives and board members and can be useful for executive reporting to highlight areas of risk and trends over time.

You can generate an executive summary or a more extensive detailed report. You can export the assessment to JSON or HTML, so you can import the data into your own solutions. For more information, see (Optional) Generate a Tanium Risk Assessment on page 33.

For ongoing visibility into operational and security risks, use the **Risk Dashboards** page. For more information, see Reviewing your risk dashboards on page 53.

Tanium Autonomous IT Platform in Benchmark

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 Tanium Autonomous IT Platform. Tanium Benchmark provides the following Autonomous IT Platform features:

- **Guide notifications**: Benchmark can generate Guide observations related to risk score and benchmark metric changes. Tanium operators who receive these observations can view the risk score or benchmark metrics and remediate the situation. For more information, see Evaluating your risk score on page 39, Reviewing benchmark metrics on page 42, and Tanium Guide User Guide: Viewing and managing notifications.

Interoperability with other Tanium products

Benchmark works with other Tanium products that provide benchmark metrics or additional features. The metrics that display are affected by which products are installed. For more information, see Reviewing benchmark metrics on page 42.

Comply

Tanium™ Comply provides data about endpoint vulnerabilities and compliance to Benchmark for risk score calculations.

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Criticality

Tanium™ Criticality provides data about the relative importance of each endpoint for risk score calculations.

Guide

Tanium™ Guide can generate Benchmark-related notifications for Tanium operators, which provide insight into Tanium, network, and endpoint performance.

For more information, see Tanium Guide User Guide: Overview.

Impact

Tanium™ Impact provides data about administrative access for endpoints, users, and groups to Benchmark for risk score calculations.

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Gaining organizational effectiveness with Benchmark

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

- Develop a dedicated change management process. For more information, see Change management on page 12.
- Define distinct roles and responsibilities. For more information, see RACI chart on page 12.
- Track operational maturity. For more information, see Operational metrics on page 14.
- Validate cross-functional alignment. For more information, see Organizational alignment on page 14.

Change management

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

- Update SLAs and align activities to key resources for risk management activities across IT Security, IT Operations, and IT Risk and Compliance based on industry comparisons.
- Identify internal and external dependencies to your risk management process. For example, achieve effective integrations with Tanium Comply and Tanium™ Patch.
- Designate change or maintenance windows for various risk management scenarios. For example, emergency patching versus general maintenance patching.
- Create a Tanium steering group (TSG) for risk 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 risk management. Use the following table as a baseline example.

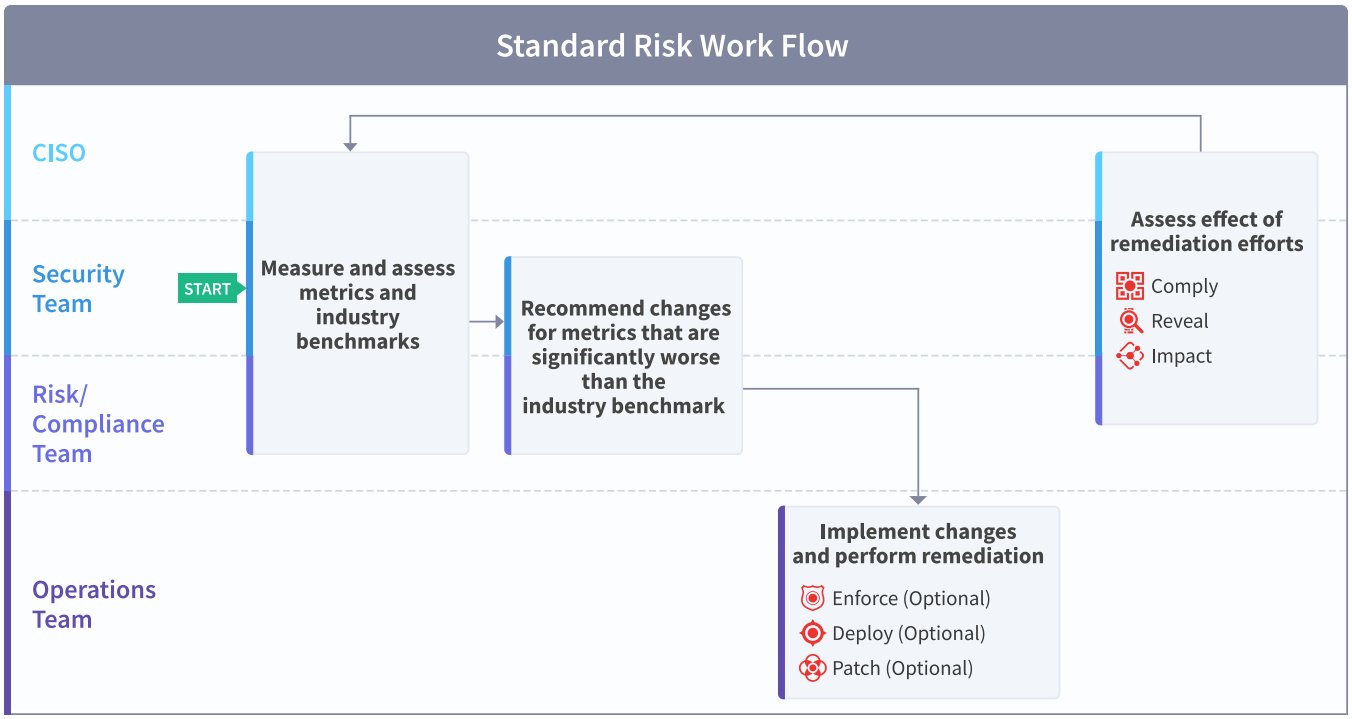
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RACI chart for Tanium Benchmark

Task	IT Security	IT Operations	IT Risk/Compliance	Executive	Rationale
Benchmark coverage of endpoints	C	A/R	C	-	The IT Operations team owns the Tanium platform and is accountable and responsible for the deployment of the Tanium Client, including the Benchmark module. Tanium Client coverage is essential to understand risk in the environment. IT Operations consults with the IT Security and IT Compliance teams on the coverage to identify gaps.
Identify and monitor business critical endpoints	A	R	C	I	The IT Security team monitors business critical endpoints to ensure actions can be taken to reduce risk. The IT Operations team identifies business critical assets and consults with the IT Compliance team to ensure accurate identification of those business critical endpoints. The Executive team is informed to monitor risk.
Monitor the risk score for the enterprise	A/R	R	R	C	The IT Security team monitors the risk score for the enterprise so that action can be taken if the risk score is too high or deviates significantly from the industry benchmark. The IT Operations and IT Compliance teams define asset criticality, ensure Benchmark coverage, and take necessary actions to reduce the risk score over time. The Executive team is consulted on acceptable risk levels and the actions taken to reduce risk.

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Risk work flow



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 risk management.

Operational metrics

Risk maturity

Managing a risk 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 Benchmark program are as follows:

Processes to measure Tanium Benchmark maturity

Process	Description
Usage	how and where Tanium Benchmark is used in your organization
Automation	how automated Tanium Benchmark and the underlying data collection is, across endpoints

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Processes to measure Tanium Benchmark maturity (continued)

Process	Description
Functional Integration	how integrated Tanium Benchmark is, across IT security, IT operations, and IT risk/compliance teams
Reporting	how automated Tanium Benchmark is and who the audience of risk score reporting is

Benchmark operational maturity metrics

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

Benchmark metrics for Tanium Benchmark maturity

Executive Metrics	Risk Coverage	Risk Score	% of Optimal Endpoints
Description	Percentage of endpoints on which all risk metric scores were calculated in the last 30 days.	A numerical score that represents the overall risk of the enterprise based on data from every managed endpoint.	Percentage of endpoints where the Risk Coverage metric reports Risk as optimal.
Instrumentation	Uses the Risk client extensions status to confirm that endpoints are reporting risk scores as well as the `Impact - Coverage Status`, `Reveal - Coverage Status`, `Comply - Coverage Status`, and `SSL Server Audit Tools Required` sensors to determine the endpoints where Risk is optimal, needs attention, and unsupported. For more information about the states reported by this metric, see Monitor and troubleshoot Risk health. For supported endpoint operating systems, see Endpoints.	For more information about how the risk score is calculated, see Risk score calculation on page 39.	Uses the Risk Coverage metric to determine the number of endpoints that report Risk as optimal divided by the total endpoints on which risk metric scores were calculated in the last 30 days multiplied by 100. The **Optimal** status indicates that all necessary tools, configurations, and scans are installed and complete for an endpoint. For more information, see Risk Coverage.
Why this metric matters	If you are not including all endpoints in your risk assessment, you do not have a complete picture of the risk in your environment.	As you lower the risk score for your enterprise, you improve your compliance and risk posture.	If all endpoints are not in an optimal state, they might not be reporting complete data to Risk, and you do not have an accurate picture of the risk in your environment.

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

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Maturity levels for Tanium Benchmark maturity

		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
Process	Usage	No dependent modules are configured, and endpoint criticality is left at the default values for all endpoints.	Core content and Comply are configured and feeding into Benchmark.	Core content, Comply and one additional dependent module are configured and feeding into Benchmark.	Core content, Comply, Impact and Tanium™ Reveal are configured and feeding into Benchmark, but not on all applicable endpoints.	Core content, Comply, Impact and Reveal are configured and feeding into Benchmark, and asset criticality is set for all applicable endpoints.

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Maturity levels for Tanium Benchmark maturity (continued)

		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
	Automation	Only manual, ad hoc compliance and vulnerability assessments in use for Comply. For more information, see Comply User Guide: Operational metrics.	Only manual, ad hoc compliance and vulnerability assessments in use for Comply. For more information, see Comply User Guide: Operational metrics.	Automated, recurring configuration compliance and vulnerability assessments for Comply. For more information, see Comply User Guide: Operational metrics.	Automated, recurring configuration compliance and vulnerability assessments for Comply. For more information, see Comply User Guide: Operational metrics.	Partially automated patching using Patch (>50% of patch deployment process automated). For more information, see Patch User Guide: Operational metrics.
	Functional integration	Benchmark installed, but dependent modules are not installed or configured.	Core content and Comply are configured and feeding into Benchmark.	Core content, Comply and one additional dependent module are configured and feeding into Benchmark.	Core content, Comply, Impact and Reveal are configured and feeding into Benchmark.	Core content, Comply, Impact and Reveal are configured and feeding into Benchmark.
	Reporting	Manual; Reporting for Operators only	Manual; Reporting for Operators only	Automated; Reporting for Operators only	Automated; Reporting tailored to stakeholders ranging from Operator to Executive	Automated; Reporting tailored to stakeholders ranging from Operator to Executive; Drive business decisions using reports

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Maturity levels for Tanium Benchmark maturity (continued)

		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
Metrics	Risk Coverage	0-49%	50-69%	70-94%	95-98%	≥99%
	Risk Score	751-1000	501-750	501-750	251-500	0-250
	% of Optimal Tanium Client Managed Endpoints[1]	0-69%	70-79%	80-89%	90-98%	99-100%

[1] Endpoints have all applicable metrics collecting data

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Benchmark requirements

Review the requirements before you install and use Benchmark.

Core platform dependencies

Make sure that your environment meets the following requirements:

- Tanium license that includes the Core Plus bundle. For more information about how to get a bundle, 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.

Solution dependencies

Other Tanium solutions are required for Benchmark to function (required dependencies) or for specific Benchmark 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 Benchmark dependencies have their own dependencies, which you can see by clicking the links in the lists of Required dependencies on page 19 and Feature-specific dependencies on page 20. Note that the links open the user guides for the latest version of each solution, not necessarily the minimum version that Benchmark requires.

Tanium recommended installation

If you select **Tanium Recommended Installation** when you import Benchmark, 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.

Import specific solutions

If you select only Benchmark to import, 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 Benchmark, the server automatically updates those dependencies to the latest available versions.

Required dependencies

Draft Comment: Dependencies are listed: https://git.corp.tanium.com/eng/risk/blob/main/core.conf.js , some of these are above the dependencies listed in this file

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Benchmark has the following required dependencies. You must install the dependencies in the listed order.

1. Tanium™ Endpoint Configuration
2. Tanium™ Interact
3. Tanium™ Data Service (TDS)
4. Tanium Criticality
5. Tanium™ System User Service
6. Tanium™ RDB Service
7. Tanium™ Reporting Service
    - Tanium™ Blob Service
8. Tanium™ Core Content
    - Tanium™ Core Content SSL/TLS Server Audit sensor

Feature-specific dependencies

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

- Tanium™ Asset is required to show asset details for endpoints.
- Tanium Comply is required to view the System Vulnerability and System Compliance metrics.
- Tanium Impact is required to view the Administrative Access metric.
- Tanium Patch is required to view related patches on endpoints.
- Tanium Reveal is required to view the Password Identification metric.
- Tanium™ Emerging Issues Content is required to view Guardian metrics.
- The detailed report of the Tanium Risk Assessment requires specific solutions for each section. For more information, see Benchmark requirements on page 19

Client extensions and endpoint tools

Tanium Endpoint Configuration installs Client Extensions and other tools for Benchmark 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 Benchmark tools, see Reference: Endpoint Management for Operational Technology endpoint tools. For a list of all Client Extensions and tools, see Tanium Client Management User Guide: Reference: Client extensions used for Tanium solutions.

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Tanium™ Module Server

Benchmark 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.

For information about, see Tanium Core Platform User Guide for Windows Deployments: Host system sizing guidelines.

Endpoints

Supported Internet protocols

Benchmark supports IPv4 and IPv6 addresses.

Supported operating systems

For more information, see Tanium Client Management User Guide: Client version and host system requirements.

The following Tanium Client managed endpoint operating systems are supported with Benchmark.

- Windows
- macOS
- Linux

Host and network security requirements

Specific ports and processes are needed to run Benchmark.

Ensure all host and network security requirements for modules that provide data to Benchmark are also met. For more information, see:

- Comply User Guide: Host and network security requirements
- Impact User Guide: Host and network security requirements
- Reveal User Guide: Host and network security requirements

Ports

The following ports are required for Benchmark communication.

Source	Destination	Port	Protocol	Purpose
Module Server	Module Server (loopback)	17523	TCP	Internal purposes, not externally accessible

If you have Tanium Certificate Manager installed, Benchmark uses a limited set of content from Certificate Manager to collect minimal certificate information from endpoints and perform audits. For more information, see Tanium Certificate Manager User Guide: Deploying certificate audits. If you do not have Certificate Manager installed, you must enable the Benchmark scheduled

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actions to collect this data. For more information, see (Optional) Enable Benchmark scheduled actions on page 36. Certificate Manager uses port scanning to locate certificates on endpoints. To configure exclusions on the ports that Certificate Manager uses to scan for certificates, see (Optional) Configure port exclusions for Certificate Manager on page 37.

BEST PRACTICE

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.

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.

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

Target Device	Notes	Exclusion Type	Process
Tanium Module Server		Process	`<Module Server>\services\benchmark-service\TaniumBenchmarkService.exe`

Benchmark security exclusions for endpoints

Endpoint OS	Notes	Exclusion Type	Process
Windows		Process	`<Tanium Client>\TaniumCX.exe`
		File	`<Tanium Client>\extensions\TaniumRisk.dll`
		Folder	`<Tanium Client>\Tools\CertificateManager`

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Benchmark security exclusions for endpoints (continued)

Endpoint OS	Notes	Exclusion Type	Process
Linux		Process	`<Tanium Client>/TaniumCX`
		File	`<Tanium Client>/libTaniumRisk.so`
		Folder	`<Tanium Client>/Tools/CertificateManager`
macOS		Process	`<Tanium Client>/TaniumCX`
		File	`<Tanium Client>/libTaniumRisk.dylib`
		Folder	`<Tanium Client>/Tools/CertificateManager`

User role requirements

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

- Benchmark solution permissions on page 24
- Benchmark requirements on page 19: The solution permissions automatically provide some of these permissions.

To review a summary of the predefined roles, see Set up Benchmark users on page 35.

Benchmark requirements on page 19 are required to enable optional Benchmark functionality.

Some Benchmark 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 Benchmark. If you create custom roles for Benchmark users, be sure to assign all the solution permissions and content set permissions that are required for Benchmark 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



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

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Benchmark solution permissions

Permission	Benchmark Administrator[1]	Benchmark Operator[1]	Benchmark User[1]	Benchmark Endpoint Configuration Approver[1]
Benchmark SHOW: View the Benchmark workbench OPERATOR: Provides privileges for the Benchmark Operator role	✓ SHOW	✓ OPERATOR SHOW	✓ SHOW	✗
Benchmark Administrator Provides privileges for the Benchmark Administrator role	✓ ADMINISTER	✗	✗	✗
Benchmark Endpoint Configuration Allows users to approve Endpoint Configuration items for Benchmark	✓ APPROVE	✗	✗	✓ APPROVE
Benchmark Settings Allows reading and updating Benchmark settings	✓ READ WRITE	✓ READ	✗	✗
Benchmark Support Bundle Provides privileges for the Benchmark support bundle	✓ 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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Benchmark administration and platform content permissions

Permission	Permission Type	Benchmark Administrator	Benchmark Operator	Benchmark User	Benchmark Endpoint Configuration Approver
Action Group	Administration	READ	READ	READ	
Computer Group	Administration	READ	READ	READ	
Filter Group	Platform Content	READ	READ	READ	
Plugin	Platform Content	READ EXECUTE	READ EXECUTE	READ EXECUTE	READ EXECUTE
Sensor	Platform Content	READ	READ	READ	READ

To view the content sets to which the platform content permissions apply, see Tanium Console User Guide: View effective role permissions.

NOTE

Tanium Guide observations and guidance display for users based on user permissions.

- Assign the **Token - Use** administration permission to enable receiving observations and guidance.
- Assign the **Benchmark show** permission to view Risk Score-related observations.

For more information, see Tanium Guide User Guide: Viewing and managing notifications.

Permissions for Tanium Guardian

Optional roles for Benchmark

Role	Enables
A custom role that includes the **Benchmark show** and **Token - Use** permissions	Access to Guide observations for Benchmark. Access to Benchmark observations. For more information, see Tanium Console User Guide: Configure a custom role.

Solutions and permissions for Tanium Risk Assessment

To configure and generate the Tanium Risk Assessment (TRA), ensure that you have the necessary role and permissions:

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- **Benchmark Administrator** role is required to enable the Tanium Risk Assessment data collection on the **Tanium Risk Assessment** page.
- **Benchmark Administrator** or **Benchmark Operator** role is required to configure and generate the TRA.
- **Sensor read** permission on the **Comply** content set is required to generate the TRA.

To generate the complete Tanium Risk Assessment detailed report, your environment must have certain solutions installed and you must have additional permissions. If you do not have all the required solutions and permissions for the detailed report, Benchmark does not display those sections in the assessment. For more information, see (Optional) Generate a Tanium Risk Assessment on page 33.

Required solutions and permissions for complete Tanium Risk Assessment detailed report

Assessment section	Assessment sub-section	Required solution	Additional required permissions
Asset Inventory Covered by the Assessment	Introduction	• Tanium™ Discover • Core Content	**Discover API execute** permission
	Endpoint Criticality	Criticality	
	Endpoints Missing A/V Processes	• Impact • Core Content	
Risk Metrics Analysis	System Vulnerabilities	• Comply • Core Content	
	Lateral Movement Risk	• Impact • Core Content	• **Impact Asset Details read** permission • **Impact Asset Impact read** permission
	System Compliance	• Comply • Core Content	
	Insecure Transport Security Protocols	• Certificate Manager • Core Content	
	Encryption and Mutual Authentication	• Certificate Manager • Core Content	

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Required solutions and permissions for complete Tanium Risk Assessment detailed report (continued)

Assessment section	Assessment sub-section	Required solution	Additional required permissions
Security and Operations Metrics	Customer Industry		
	Security Metrics	• Tanium™ Threat Response • Tanium™ Enforce • Impact • Reveal • Core Content	
	Operations Metrics	• Patch • Tanium™ Deploy • Core Content	
Guardian Metrics Risk Exposure Analysis		Emerging Issues Content	
Additional Risk and Cyber Hygiene Metrics	Endpoint Inventory Management	• Discover • Core Content	**Discover API execute permission**
	Endpoint Health Management	Core Content	
	Vulnerability Management	• Comply • Core Content	
	Patch Management	• Patch • Core Content	**Sensor read** permission on the **Patch Service Objects** content set
	Software Management and Distribution	• Deploy • Tanium™ Asset • Core Content	• **Sensor read** permission on the **Asset** content set • **Sensor read** permission on the **Deploy** content set
	Risk Management	• Comply • Core Content	

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Installing Benchmark

Use the Tanium Console **Solutions** page to install Benchmark and choose either automatic or manual configuration:

- **Automatic configuration with default settings** : Benchmark is installed along with all other licensed solutions. After installation, the Tanium Server automatically configures the recommended default settings. This option is the best practice for most deployments. For more information, see Import Benchmark with default settings on page 28.
- **Manual configuration with custom settings**: After installing Benchmark, you must manually configure required settings. Select this option only if Benchmark requires settings that differ from the recommended default settings. For more information, see Import Benchmark with custom settings on page 29.

Before you begin

- Read the release notes.
- Review the Benchmark requirements on page 19.
- If you are upgrading from a previous version, see Upgrade Benchmark on page 29.
- Assign the correct roles to users for Benchmark. Review the User role requirements on page 23.
    - To import the Benchmark solution, you must be assigned the Administrator reserved role.
    - To configure the Benchmark action group, you must be assigned the Administrator reserved role, Content Administrator reserved role, or a role that has the **Action Group write** permission.
- Install or upgrade the required dependencies to the specific version in the specified order. For more information, see Manage solution dependencies.

Import Benchmark with default settings

You can set the Benchmark action group to target the **No Computers** filter group by enabling restricted targeting before importing Benchmark. This option enables you to control tools deployment through scheduled actions that are created during the import and that target the Tanium Benchmark 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 Benchmark with automatic configuration, the following default setting is configured:

Tanium Benchmark default setting

Setting	Default value
Action group	• Restricted targeting disabled (default): `All Computers` computer group • Restricted targeting enabled: `No Computers` computer group

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To import Benchmark and configure default settings, see Tanium Console User Guide: Import all modules and services. After the import, verify that the correct version is installed: see Verify Benchmark version on page 29.

Import Benchmark with custom settings

To import Benchmark without automatically configuring default settings, be sure to clear the **Apply All Tanium recommended configurations** option 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 Benchmark version on page 29.

To configure the Benchmark action group, see Configure the Benchmark action group on page 31.

Manage solution dependencies

Other Tanium solutions are required for Benchmark to function (required dependencies) or for specific Benchmark features to work (feature-specific dependencies). For more information, see Solution dependencies on page 19.

Upgrade Benchmark

For the steps to upgrade Benchmark, see Tanium Console User Guide: Managing Tanium. After the upgrade, verify that the correct version is installed: see Verify Benchmark version on page 29.

Benchmark uses Tanium Criticality to manage criticality levels for Tanium Client managed endpoints. If you previously uploaded a CSV file to assign endpoint criticality in the **Settings > Endpoint Criticality** tab in an older version of Benchmark, the endpoint criticality data has been migrated to Tanium Criticality. For more information, see Tanium Criticality User Guide: Assigning criticality to endpoints.

Verify Benchmark version

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

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

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Configuring Benchmark

Configure Tanium Benchmark to ensure your Benchmark metrics are as effective and relevant as possible. Configurations include setting action groups, assigning target goals, and generating a Tanium Risk Assessment.

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

Restricted targeting

You can set the Benchmark action group to target the **No Computers** filter group by enabling restricted targeting before importing Benchmark. This option enables you to control tools deployment through scheduled actions that are created during the import and that target the Tanium Benchmark 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.

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.

IMPORTANT

When you upgrade Benchmark, the change management feature enables you to perform a staged rollout of the endpoint tools associated with the new version of Benchmark. Benchmark 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 Benchmark 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

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IMPORTANT

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 Benchmark, see User role requirements on page 23. 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.

Configure Benchmark

Configure the Benchmark action group

Edit the computer groups in the Benchmark action group to specify which managed endpoints are included in Benchmark metrics.

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

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

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

BEST PRACTICE

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

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1. From the Main menu, go to **Administration > Actions > Action Groups**.
2. Click **Tanium Benchmark**.
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.

(Optional) Set company name

You can change the company name that is displayed on charts in the Benchmark user interface.

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Settings and then click **General Settings**.
2. Enter the display name that you want to use and click **Save**.

(Optional) Set industry

You can change the default industry to compare your environment to customers in a different industry. When you change the industry, the charts on the Benchmark **Overview** page are updated to reflect the new industry.

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Settings and then click **General Settings**.
2. Clear the **Use Tanium Default** option, select the industry that you want to use, and then click **Save**.

The **Industry History** table lists each time the industry was changed, including the industry, who set it, whether it was the default, and the date and time it was changed.

(Optional) Configure computer groups

By default, Benchmark uses the `All Computers` computer group. If needed, you can change this default computer group. You can also configure the computer groups that are available to select when you analyze benchmarks and risk scores. On all Benchmark pages, you can select a **Computer Groups**.

The computer groups you use for Benchmark must have Tanium Reporting enabled. For more information, see Tanium Reporting User Guide: Select computer groups for data collection.

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Settings and then click **Computer Groups**.
2. If you want to change the default computer group to use as the default for all pages, select that computer group in the **Default** column.
3. If you want to add computer groups, click **Select Computer Groups** and select additional computer groups. Click **Save**.
4. If you want to remove computer groups from the list, click Remove.

(Optional) Configure data collection frequency

Benchmark collects data from Tanium Client managed endpoints every two hours by default. If needed, you can modify this frequency.

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NOTE

If you make changes to endpoint criticality rules, be aware that Tanium Criticality uses a different update frequency than Benchmark. Criticality updates each hour, whereas Benchmark can update from every 15 minutes or once a day, depending on your configuration. If it is 10:00, for example, and you modify the Benchmark data collection time period to be 15 minutes, Benchmark does not receive updated criticality levels until 11:00, even though Benchmark collects data at 10:15, 10:30, and 10:45.

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Settings and then click **Data Collection**.
2. Specify a time period and select **Minutes** or **Hours**.

(Optional) Assign target goals

You can add goal values in addition to the benchmark metric values. These goals are tracked on the detail page charts for each benchmark metric. You must have the **Benchmark Settings write** permission to set goal values.

NOTE

Guardian Metrics goals are defined by Tanium and cannot be set.

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Settings and then click **Target Goals**.
2. For each metric you want to track, select a goal. The goal can be linked dynamically to the 50th or 75th percentile value, or a specific value. To set goals for all metrics, click **Set Method for All**.
3. Save your changes. Goals can take up to 24 hours to collect data and display on the Results chart for the metric. To start data collection, click **Collect Data**.

(Optional) Assign endpoint criticality

Endpoint criticality is a level on an individual endpoint that is used to add context about the endpoint in the organization. A higher criticality for a particular endpoint increases its risk score.

Benchmark uses Tanium Criticality to manage criticality levels for endpoints. Benchmark receives the levels from Criticality and factors the criticality into the risk scores for endpoints. For more information, see Tanium Criticality User Guide: Criticality overview.

(Optional) Generate a Tanium Risk Assessment

BEST PRACTICE

For best results, ensure that Tanium Criticality 1.6 or later is installed.

A Tanium Risk Assessment (TRA) is a report of operational and security risks in your organization based on metrics and data points identified during the evaluation. You can generate the assessment as often as needed. For more information, see Tanium Risk Assessment on page 10.

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IMPORTANT

You must have certain roles and permissions to enable data collection and to configure and generate the assessment. For more information, see Solutions and permissions for Tanium Risk Assessment on page 25.

1. From the Main menu, go to **Modules > Benchmark** to open the Benchmark **Overview** page.
2. Click Settings and then click **Tanium Risk Assessment**.
3. As a Benchmark Administrator, select **Enable the Tanium Risk Assessment data collection**. This option must be enabled before a Benchmark Administrator or Benchmark Operator can configure and generate the assessment.

   NOTE

   You do not need to enable TRA data collection to use the **Risk Dashboards**.

   Enabling the TRA data collection allows Benchmark to create custom endpoint rules in Tanium Criticality and start automatic Tanium Data Service collection for existing Tanium sensors. The TRA rules dynamically modify endpoint criticality, based on specialized criteria, such as disk encryption status, uptime, insecure wireless configuration, whether or not the endpoint is a database server, and so on. Consider waiting to generate the assessment for at least one hour after you enable data collection, so that the new endpoint criticality rules can be synchronized. For more information, see Tanium Criticality Endpoint Rules on page 35 and Tanium Criticality User Guide: Configuring Criticality

   If you disable data collection, the corresponding TRA rules are also deleted in Tanium Criticality and Tanium Data Service stops collecting data for Tanium sensors used in TRA rules.
4. Select a Benchmark computer group to use in the assessment.

   You can select a different computer group each time that you generate the assessment.

   NOTE

   The computer group and your management rights for the endpoints in the computer group might affect the number of endpoints included in the assessment.
5. If you have Impact installed and configured, select up to three Windows endpoints in the computer group to demonstrate lateral impact risk in the detailed report.

   By default, three endpoints with the highest impact rating have been selected. To select other endpoints, remove an endpoint and enter a computer name to search for another endpoint. Refresh the page to return to the default selections.
6. Generate the assessment.
   a. Select if you want the assessment to include sections with no applicable endpoints or no identified risks.

      A section has no applicable endpoints when the endpoints do not apply to the risk identified in the section, for example, Linux endpoints in a section for a Windows risk. A section has no identified risks when the endpoints were evaluated and do not contain the risk identified in the section. If you select this option, tables, charts, and other items appear with a message that the endpoints do not include the risk. You might include these items in the assessment to be aware of all evaluated risks.

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b. Generate either a detailed report or executive summary in HTML or JSON. You might select HTML to easily review the assessment on its own or select JSON to input the data into your own solution.

The assessment is downloaded to your default downloads folder. Benchmark does not store previously generated TRAs.

7. If you generate the detailed report and a section is missing content because of missing permissions or solutions or other errors, a table appears with the impacted section title and a status describing the issues. The sections with missing content do not appear in the report. Review the table and resolve issues as necessary. For more information, see Unable to generate or export Tanium Risk Assessment on page 65.

TANIUM CRITICALITY ENDPOINT RULES

Benchmark creates the following endpoint rules in Tanium Criticality:

- TRA - Database Servers
- TRA - EoL Operating Systems
- TRA - High Uptime
- TRA - Insecure Services Running
- TRA - Insecure Wireless Access
- TRA - System Requires Reboot
- TRA - Unencrypted Physical Disks

Set up Benchmark users

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

For more information, see User role requirements on page 23.



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

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



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

Benchmark Administrator

Assign the **Benchmark Administrator** role to users who manage the configuration and deployment of Benchmark functionality to endpoints.

This role can perform the following tasks:

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- Configure Benchmark service settings
- View and modify Benchmark endpoint criticality configurations
- Enable Tanium Risk Assessment data collection
- Configure and generate a Tanium Risk Assessment

Benchmark Operator

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

- Configure Benchmark service settings
- View and modify Benchmark endpoint criticality configurations
- Configure and generate a Tanium Risk Assessment, after data collection is enabled by an administrator

Benchmark User

Assign the **Benchmark User** role to users who need visibility into Benchmark data.
This role can view Benchmark.

Benchmark Endpoint Configuration Approver

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

Registered sensors

Benchmark registers sensors from core content and solutions that are in the environment. Tanium Data Service uses the registered sensors to collect metrics, perform risk scoring, and report health status.

For more information, see Tanium Interact User Guide: Managing Tanium Data Service.

(Optional) Enable Benchmark scheduled actions

If you have Tanium Certificate Manager installed, Benchmark uses a limited set of content from Certificate Manager to collect minimal certificate information from endpoints and perform audits. For more information, see Tanium Certificate Manager User Guide: Deploying certificate audits.

If you do not have Certificate Manager installed, you must enable the Benchmark scheduled actions to collect this data.

You can enable the following scheduled actions to collect data for expired certificates and insecure TLS/SSL metrics:

- Benchmark - Run Certificate Audit [Non-Windows]
- Benchmark - Run Certificate Audit [Windows]

To enable these scheduled actions:

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1. From the Main menu, go to **Administration > Scheduled Actions**.
2. Select the **Tanium Benchmark** action group or enter `Benchmark` to filter the list of scheduled actions.
3. Select the **Benchmark - Run Certificate Audit [Non-Windows]** and **Benchmark - Run Certificate Audit [Windows]** scheduled actions and then click **More > Enable Actions**.

If Certificate Manager is later installed, these Benchmark scheduled actions are automatically disabled within an hour. Benchmark then defaults to using the **Certificate Manager - Run Certificate Audit [Non-Windows]** and **Certificate Manager - Run Certificate Audit [Windows]** actions instead.

(Optional) Configure port exclusions for Certificate Manager

Certificate Manager uses port scanning to locate certificates on endpoints.

You can add or delete port exclusions by deploying the following packages:

- **Certificate Audit Add Port Exclusions [Non-Windows]**
- **Certificate Audit Add Port Exclusions [Windows]**
- **Certificate Audit Delete Port Exclusions [Non-Windows]**
- **Certificate Audit Delete Port Exclusions [Windows]**

Add port exclusions

1. From the Main menu, go to **Administration > Content > Packages** and search for `Certificate Audit`.
2. Select the checkbox for **Certificate Audit Add Port Exclusions [Non-Windows]** or **Certificate Audit Add Port Exclusions [Windows]** and then click **Deploy Action**.
3. In the **Deployment Package** section, enter the **Ports to Exclude**.
4. In the **Targeting Criteria** section, choose an option to target one or more endpoints and then click **Show Preview to Continue**.

   To add the port exclusion for all endpoints, select **Tanium Certificate Manager** for **Action Group**. For more information, see Tanium Certificate Manager User Guide: Configure the Certificate Manager action group.
5. Verify the list of targeted endpoints and then click **Deploy Action**.

Delete port exclusions

1. From the Main menu, go to **Administration > Content > Packages** and search for `Certificate Audit`.
2. Select the checkbox for **Certificate Audit Delete Port Exclusions [Non-Windows]** or **Certificate Audit Delete Port Exclusions [Windows]** and then click **Deploy Action**.
3. In the **Deployment Package** section, enter the **Ports to no longer exclude**.

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4. In the **Targeting Criteria** section, choose an option to target one or more endpoints and then click **Show Preview to Continue**.

   TIP

   To delete the port exclusion for all endpoints, select **Tanium Certificate Manager** for **Action Group**. For more information, see Tanium Certificate Manager User Guide: Configure the Certificate Manager action group.

5. Verify the list of targeted endpoints and then click **Deploy Action**.

NOTE

Although the **Certificate Audit Port Exclusions** sensor displays the updated exclusions, the port exclusions do not take effect until after the next certificate audit runs. You can either Tanium Certificate Manager User Guide: Deploy a certificate audit package manually, or wait until the next **Certificate Audit [Non-Windows]** and **Certificate Audit [Windows]** scheduled actions run.

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Evaluating your risk score

Assess the overall risk posture of Tanium Client managed endpoints in your environment, prioritize actions, and remediate issues using the Tanium platform.

IMPORTANT

You must have both Tanium Impact and Tanium Comply installed and configured to view the risk score.

By default, data for the risk score is gathered from managed endpoints and stored every 2 hours throughout the day. The total score for the enterprise is calculated several times per day to update the charts on the Benchmark **Overview** page. The total score for the enterprise and the risk metric scores are stored as a data point once every 24 hours to preserve a daily record, which allows you to monitor changes over time.

NOTE

Tanium Guide observations and guidance display for users based on user permissions.

- Assign the **Token - Use** administration permission to enable receiving observations and guidance.
- Assign the **Benchmark show** permission to view Risk Score-related observations.

For more information, see Tanium Guide User Guide: Viewing and managing notifications.

Risk score calculation

The Tanium risk score gets calculated for endpoints that are in computer groups that you have configured for Benchmark. For more information, see (Optional) Configure computer groups on page 32. Benchmark uses Tanium Data Service to include results for offline endpoints. For more information, see Tanium Interact User Guide: Managing Tanium Data Service.

Risk score range

The possible range for a risk score is 1-1000. A lower score indicates a lower risk for the enterprise or endpoint. Scores are categorized into low, medium, high, or critical:

- **Low:** 1-250
- **Medium:** 251-500
- **High:** 501-750
- **Critical:** 751-1000

Risk score formulas

The following formula is used to calculate the risk score per endpoint:

```
Metrics Risk Score Total x Endpoint Criticality Value = Final Risk Score
```

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The following formula is used to calculate the risk score for a computer group:

```
Total Endpoint Risk Score Sum of Endpoints / Total # of Endpoints
```

Risk score metrics

These metrics assess the risk for your enterprise in specific categories by using data provided by Tanium solutions. These data points are used as part of the formula to calculate the risk score. The risk score contributing factor is the percentage that the metric contributes to the overall risk score. Each metric can contribute a maximum number of points towards the total risk score.

Risk score metric contributions

Metric	Risk score contributing factor	Risk score contribution point totals
High Severity Vulnerabilities	10%	50/500
Critical Severity Vulnerabilities	25%	125/500
Compliance Failures	20%	100/500
Insecure TLS/SSL	10%	50/500
Expired Certificates	10%	50/500
Lateral Movement Risk	25%	125/500

Endpoint criticality value

Endpoint criticality is a level on an individual endpoint that is used to add context about the endpoint in the organization. Possible levels are **Critical**, **High**, **Medium**, and **Low**. These levels indicate the importance of the endpoint in your environment.

The score for an endpoint is adjusted based on the criticality level:

- **Low:** No adjustment to the score for the endpoint
- **Medium:** (Default) Multiplies the score for the endpoint by 1.33
- **High:** Multiplies the score for the endpoint by 1.67
- **Critical:** Multiplies the score for the endpoint by 2

For example, if an endpoint has a score of 200, but the endpoint is flagged as critical, the score reported for that endpoint is 400.

Benchmark uses Tanium Criticality to manage criticality levels for endpoints. For more information, see Tanium Criticality User Guide: Criticality overview.

View risk score

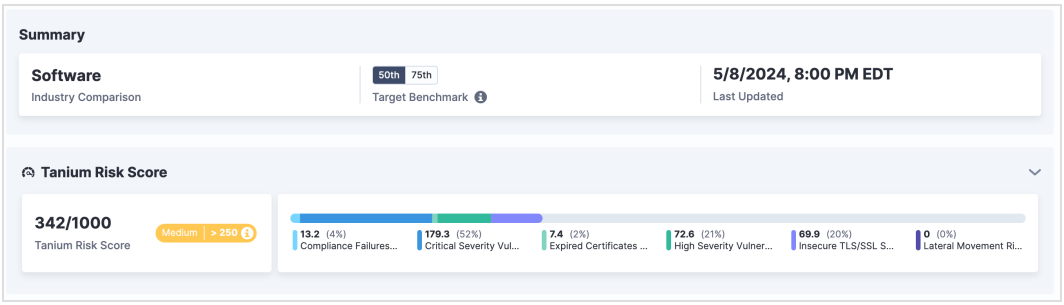
You can review the overall risk score. Drill into more details such as risk scores for each endpoint, and more data about each metric.



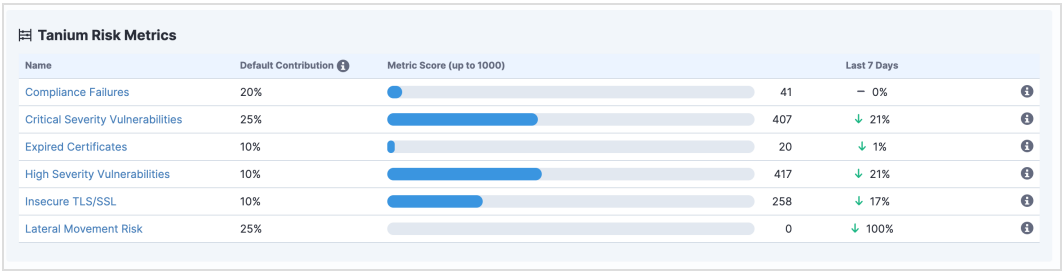
Tanium risk score 1.0 is also available in the user interface. For more information, see the Tanium Risk Score 1.0 User Guide.

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1. View the overall risk score. From the Main menu, go to **Modules > Benchmark > Tanium Risk Score 2.0** and view the **Tanium Risk Score** section. To scope the risk score, select a **Computer Group**.

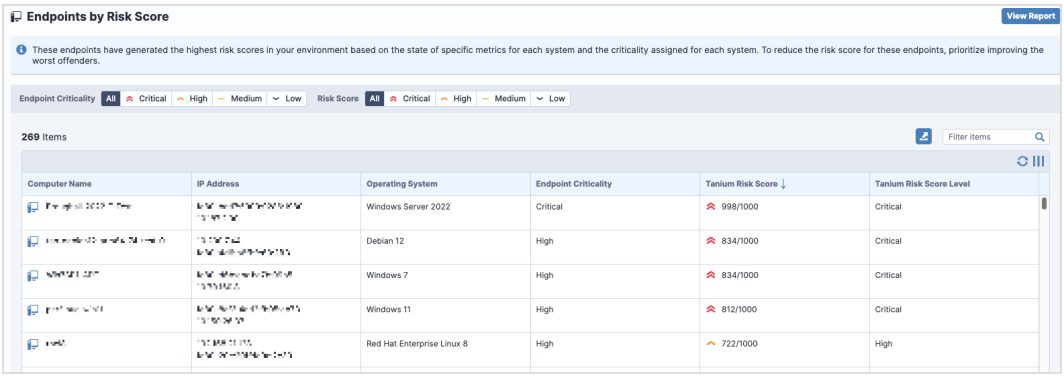


2. View the score for each risk metric that contributes to the overall risk score. Go to the **Tanium Risk Metrics** section.



Click the metric name to view further details about the metric, including detailed information about the riskiest managed endpoints for that metric. For more information, see Investigate benchmark results on page 44.

3. View endpoints by risk score. Go to **Endpoints by Risk Score** and review the endpoints with the highest risk scores.



For more information, click **View Report** or Endpoint Details , then **View Details**.

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Reviewing benchmark metrics

View benchmarks that are grouped into the following categories: enterprise risk, Guardian metrics, security, and operations.

Benchmark values

IMPORTANT

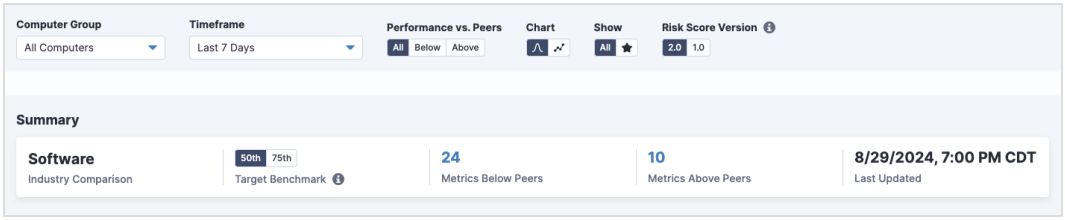
To see metrics and benchmark values, you must have licenses for the associated modules. For example, to view the **Mean Time to Patch** benchmark, you must have a license for Tanium Patch.

Benchmark values are anonymously collected and aggregated from Tanium Cloud customers. The benchmark data that you see compares the performance of your Tanium metrics with aggregated data that is collected anonymously from other Tanium customers in the same industry. This data is a static representation of the benchmarks at a point in time. The data gets updated when you upgrade Benchmark.

Each metric is presented as both a percentile value and the results, or actual values.

View benchmarks

- Scope your metrics. From the Main menu, go to **Modules > Benchmark > Overview**. Choose a computer group, timeframe, peer performance comparison, chart type, and risk score version.



- Set your target percentile. The percentile indicates a percentage of other Tanium customers that meet or exceed the benchmark value for a metric. You can choose 50th or 75th percentile. From the Benchmark **Overview** page, go to the **Summary** section and select the **Target Benchmark**. The target benchmark is displayed on all of the charts on the Benchmark **Overview** page.
- Choose the type of charts that you want to view on the **Overview** page. Choose either the **Percentile Distribution** or **Percentile Over Time** chart type.

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- View an overview of metrics by category. On the Benchmark **Overview** page, you can view an overview of all the metrics that are available compared to the target percentile value that you selected.



- View benchmark details.



On the Benchmark **Overview** page, click **View Details** next to one of the categories. The percentile and results charts for each metric are displayed. You can hover over parts of the charts for more details. In the **Percentile** charts, you might want to investigate metrics with a **Below Benchmark** indicator. If a goal is set for the metric, a line is available for the in the **Results** chart for the metric, along with an indicator of whether the goal has been met.

For more information, see Set benchmark target goals on page 46.

- View the data that contributed to your metrics. To view a report with data details for the benchmark, click the title of the chart.

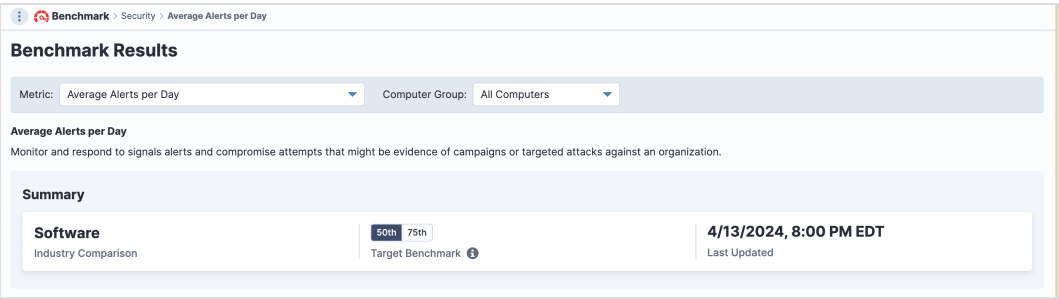
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Investigate benchmark results

From the Main menu, go to **Modules > Benchmark**. Click the title of a metric chart to view details about the results for that metric. From the **Benchmark Results** page, you can switch between pages for other metrics by selecting a **Metric**. You can also select the **Computer Group** to use for the data. The **Benchmark Results** pages include these sections:

Summary

The **Summary** section provides details about the metric, shows the source for the benchmark, the target benchmark, and the date and time that the data was last updated. You can set your target percentile for the metric. The percentile indicates a percentage of other Tanium customers that meet or exceed the benchmark value for a metric. You can choose 50th or 75th percentile.



Results

The **Results** section includes charts with the results for the metric, shown both as the percentile and percentage of Tanium Client managed endpoints. Select the **Timeframe** for the charts.

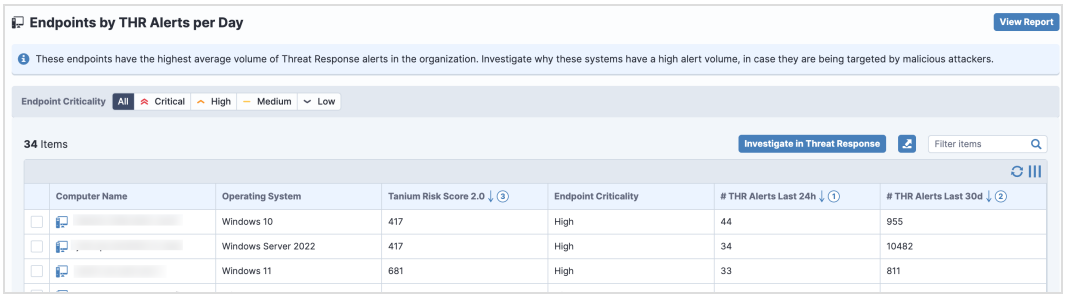


Endpoints

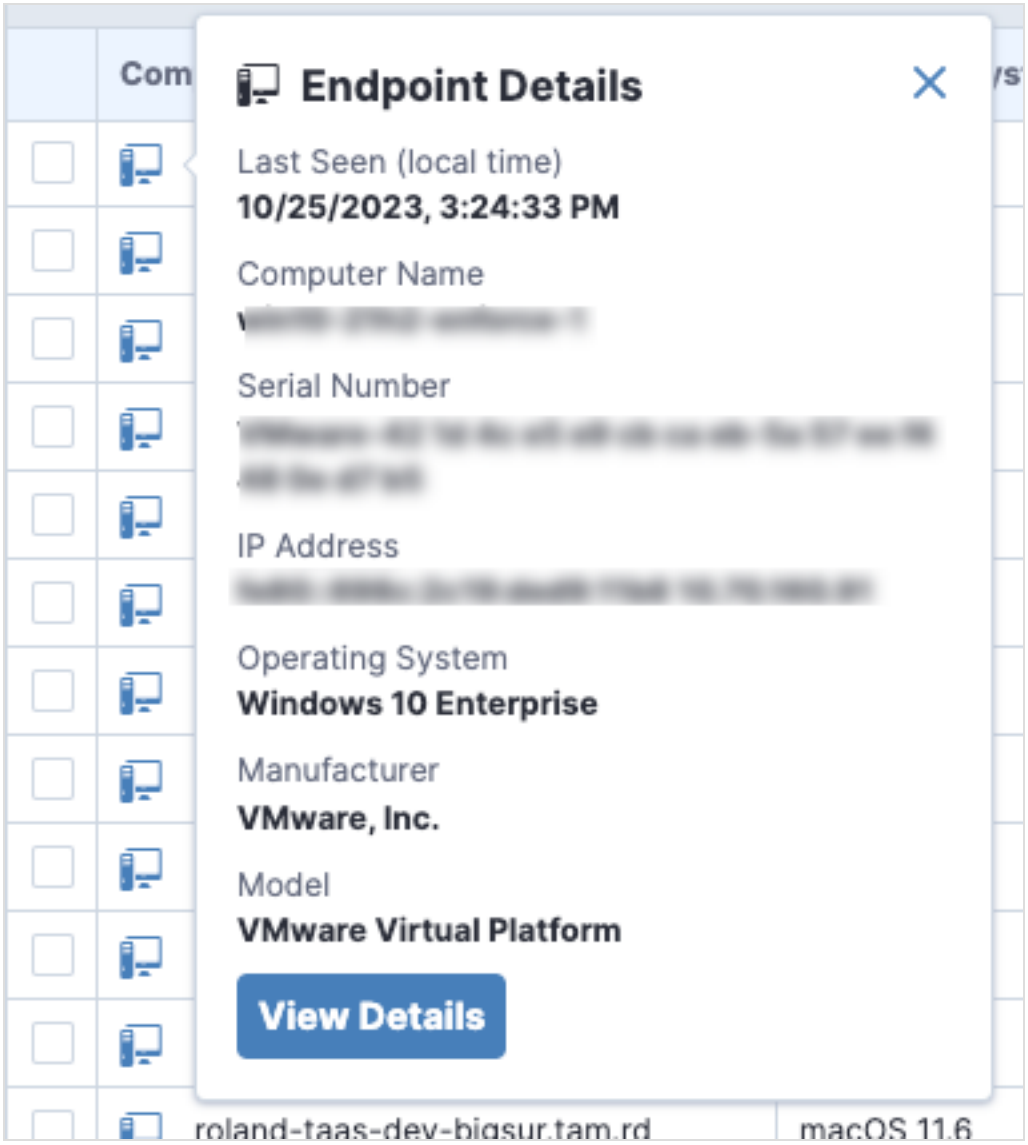
The endpoints table shows the riskiest endpoints for that metric. To open the metric report, click **View Report**. For more information, see Tanium Reporting User Guide: Working with reports. Some metrics include the option to explore, investigate or remediate an issue in other Tanium solutions, including: Comply, Deploy, Enforce, Impact, Patch, and Threat Response. To view details in the Tanium module, select an endpoint and click the button to open the module. For more information, see Security

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metrics and Operations metrics.



To see details about an endpoint, click Endpoint Details .



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Set benchmark target goals

You can add goal values in addition to the benchmark metric values. These goals are tracked on the detail page charts for each benchmark metric. You must have the **Benchmark Settings write** permission to set goal values.

> NOTE
>
> Guardian Metrics goals are defined by Tanium and cannot be set.

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Settings and then click **Target Goals**.
2. For each metric you want to track, select a goal. The goal can be linked dynamically to the 50th or 75th percentile value, or a specific value. To set goals for all metrics, click **Set Method for All**.
3. Save your changes. Goals can take up to 24 hours to collect data and display on the Results chart for the metric. To start data collection, click **Collect Data**.

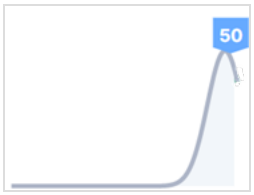
About bell curve charts

If you select **Percentile Distribution** for the chart types on the Benchmark **Overview** page, you see a bell curve chart for each metric.

- If you select 50 for your percentile value, 50 is on the chart and represents the median for the dataset.
- The mean value is at the center of the curve, regardless of where the curve sits on the X axis.
- The percentile value for your environment is represented with a vertical line with the percentile value on the X axis.
- The relative position of the median and mean values skews the position of the bell curve on the chart. If the median and mean do not align, the chart is skewed to the right or left.
- The shape of the curve identifies the standard deviation for the dataset.
    - Normal distribution: Most individual values sit in the middle of the range.

    - Deviations: The deviation affects the width of the bell curve, with a thinner curve showing that the values span a smaller range of values.

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Enterprise Risk metrics

Tanium Risk Score 2.0

The percentage of risk metric contributions that reflect risk in specific focus areas of endpoint security. A high risk score indicates increased enterprise risk. For more information about this metric, see Evaluating your risk score on page 39.

From solution: Benchmark

Compliance Failures

The average number of compliance failures per endpoint. You can investigate the findings for each endpoint in Comply for more details.

From solution: Comply

Critical Severity Vulnerabilities

The percentage of endpoints in the environment with critical severity vulnerabilities over 7 days old.

From solution: Comply

Expired Certificates

The percentage of endpoints with expired Transport Layer Security (TLS) and Secure Socket Layer (SSL) certificates on endpoints. Expired certificates present security issues because organizations cannot validate certificate revocation status to confirm trust in those certificates. A high metric score indicates increased enterprise risk.

If you have Tanium Certificate Manager installed, Benchmark uses a limited set of content from Certificate Manager to collect minimal certificate information from endpoints and perform audits. For more information, see Tanium Certificate Manager User Guide: Deploying certificate audits. If you do not have Certificate Manager installed, you must enable the Benchmark scheduled actions to collect this data. For more information, see (Optional) Enable Benchmark scheduled actions on page 36.

From solution: Core Content

High Severity Vulnerabilities

The percentage of endpoints in the environment with Common Vulnerability Scoring System (CVSS) v3 high and critical vulnerabilities over 7 days old.

From solution: Comply

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Insecure TLS/SSL

The percentage of endpoints with insecure and outdated transport layer security protocols (SSLv3, TLSv1). These protocols can expose enterprise endpoints to man-in-the-middle attacks and expose sensitive data to attackers through browser exploitation. A high metric score indicates increased enterprise risk.

If you have Tanium Certificate Manager installed, Benchmark uses a limited set of content from Certificate Manager to collect minimal certificate information from endpoints and perform audits. For more information, see Tanium Certificate Manager User Guide: Deploying certificate audits. If you do not have Certificate Manager installed, you must enable the Benchmark scheduled actions to collect this data. For more information, see (Optional) Enable Benchmark scheduled actions on page 36.

From solution: Core Content

Lateral Movement Risk

This metric evaluates the least-privilege model on endpoints, determining potential lateral movement if an endpoint is compromised. Limit administrative access to prevent attackers from gaining access to elevated privileges.

From solution: Impact

Guardian metrics

Guardian metrics compare your threat exposure for known vulnerabilities against your peers. You can also view Guardian metrics on the **Guardian Metrics** page from the Benchmark menu.

SSH Authorized Keys without a Passphrase

The percentage of endpoints that have unprotected keys that might be authorized for use. Revoke authorization for each authorized key without a passphrase and issue a new passphrase protected key in its place.

From solution: Core Content, Emerging Issues Content

Security metrics

Security metrics can help you understand how susceptible your environment is to attacks and malware, compared to other Tanium customers.

Average Alerts per Day

The average number of alerts per day provided by Threat Response intel documents. You might have varying numbers and types of intel documents that affect the number of alerts.

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To explore this metric in Impact, select an endpoint in the **Endpoints by THR Alerts per Day** section of the **Benchmark Results** page for this metric and click **Explore in Impact** to open the **Impact Details** page for that endpoint. To investigate unresolved alerts related to this metric in Threat Response, click **Investigate in Threat Response**. For more information, see Tanium Threat Response User Guide: Managing alerts.

From solution: Threat Response

Firewall Disabled

The percentage of endpoints in the environment that have a disabled firewall. For more information, see Tanium Enforce User Guide: Monitor and troubleshoot host firewall status on endpoints.

From solution: Enforce

Impact Rating of Machines with Alerts

The average impact rating for endpoints that currently have active Threat Response intelligence alerts.

From solution: Threat Response, Impact

LSA Protection Disabled (LSASS as PPL)

The percentage of endpoints that do not have Local Security Authority (LSA) Protection enabled.

From solution: Incident Response

Missing Disk Encryption (Windows systems)

The percentage of endpoints in the environment that are missing disk encryption. For more information, see Tanium Enforce User Guide: Monitor and troubleshoot disk encryption status on endpoints.

From solution: Enforce

Passwords Found

The percentage of endpoints with confirmed passwords using the Reveal rule: `PCI 2 - System Passwords`. Ensure that passwords are not stored in plain-text to prevent attackers and insider threats from accessing those credentials and gaining unauthorized access to enterprise endpoints.

From solution: Reveal

Remote UAC Local Account Token Filter Disabled

The percentage of endpoints that do not have the LocalAccountTokenFilterPolicy restriction applied.

From solution: Incident Response

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Secure Powershell Execution Policy Not Enforced

The percentage of endpoints that do not have PowerShell execution policies enabled.

From solution: Core Content

Secure Removable Storage Policy Not Applied

The percentage of endpoints that do not have a secure removable storage policy applied.

From solution: Enforce, Core Content

User Account Control Disabled

The percentage of endpoints that do not have user account control enabled.

From solution: Incident Response

Windows Credential Guard Disabled

The percentage of endpoints that do not have Windows Credential Guard enabled.

From solution: Core Content

Windows Data Execution Prevention (DEP) Disabled

The percentage of endpoints that have Windows Data Execution Prevention (DEP) disabled.

From solution: Core Content

Windows Defender Disabled

The percentage of endpoints in the environment that are missing Windows Defender.

From solution: Enforce

Windows Defender Out of Date

The percentage of endpoints in the environment that have out of date Microsoft Defender definition files.

From solution: Enforce

Windows Trusted Platform Module (TPM) Not Enabled

The percentage of endpoints that do not have TPM enabled.

From solution: Benchmark

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Windows Workstation Antivirus Disabled

The percentage of endpoints that do not have workstation antivirus enabled.

From solution: Core Content

Windows Workstation Antivirus Out of Date

The percentage of endpoints that have out of date antivirus.

From solution: Core Content

Operations metrics

Operations metrics contain controls that an organization can put in place to prevent attackers from accessing sensitive data or performing malware attacks.

Domain Membership

The percentage of endpoints that are not joined to a domain. (Windows only)

From solution: Core Content

High CPU Consumption

The percentage of endpoints that have over 95% CPU consumption.

From solution: Core Content

High Disk Consumption

The percentage of endpoints that have less than five percent disk space available.

From solution: Core Content

High Memory Consumption

The percentage of endpoints that have less than five percent memory remaining.

From solution: Core Content

High Server Uptime

The percentage of server endpoints that have been up more than thirty days.

From solution: Core Content

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High Workstation Uptime

The percentage of workstation endpoints that have been up more than ten days.

From solution: Core Content

Mean Time to Patch

The average number of days to patch endpoints following the availability of a patch.

From solution: Patch

Mean Time to Update

The average number of days to deploy software updates to endpoints following the availability of an update.

From solution: Deploy

Patch Compliance

The percentage of endpoints that have not been updated with available software patches after 30 days since the patch became available. For more information, see Tanium Patch User Guide: Monitor and troubleshoot endpoints missing critical or important patches.

From solution: Patch

Software Update Compliance

The percentage of endpoints that have available software updates that have not been deployed after 30 days since the update became available.

From solution: Deploy

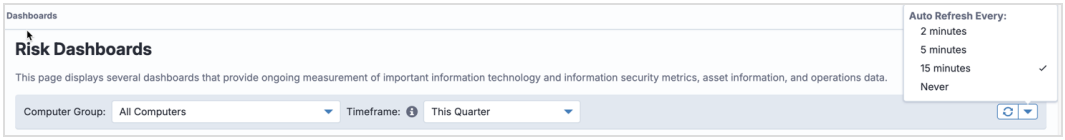
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Reviewing your risk dashboards

Review your risk posture in visual dashboards that are a collection of panels, charts and reports based on operational and security risks. Data for these dashboards are based on the solutions that are currently installed and implemented in your environment.

View the dashboards

From the Main menu, go to **Modules > Benchmark > Risk Dashboards**. Select the **Computer Group** and **Timeframe** for the dashboards. Click Refresh now to refresh the data in the charts. You can also adjust the auto refresh time frame.



Inventory

Use the data in the **Inventory** section to gain insight into the total number, operating systems, and hardware models of endpoints in your environment.

> **NOTE** The available charts and reports depend on the solutions currently installed and implemented in your environment. Therefore, the charts and reports for each section might vary between environments.

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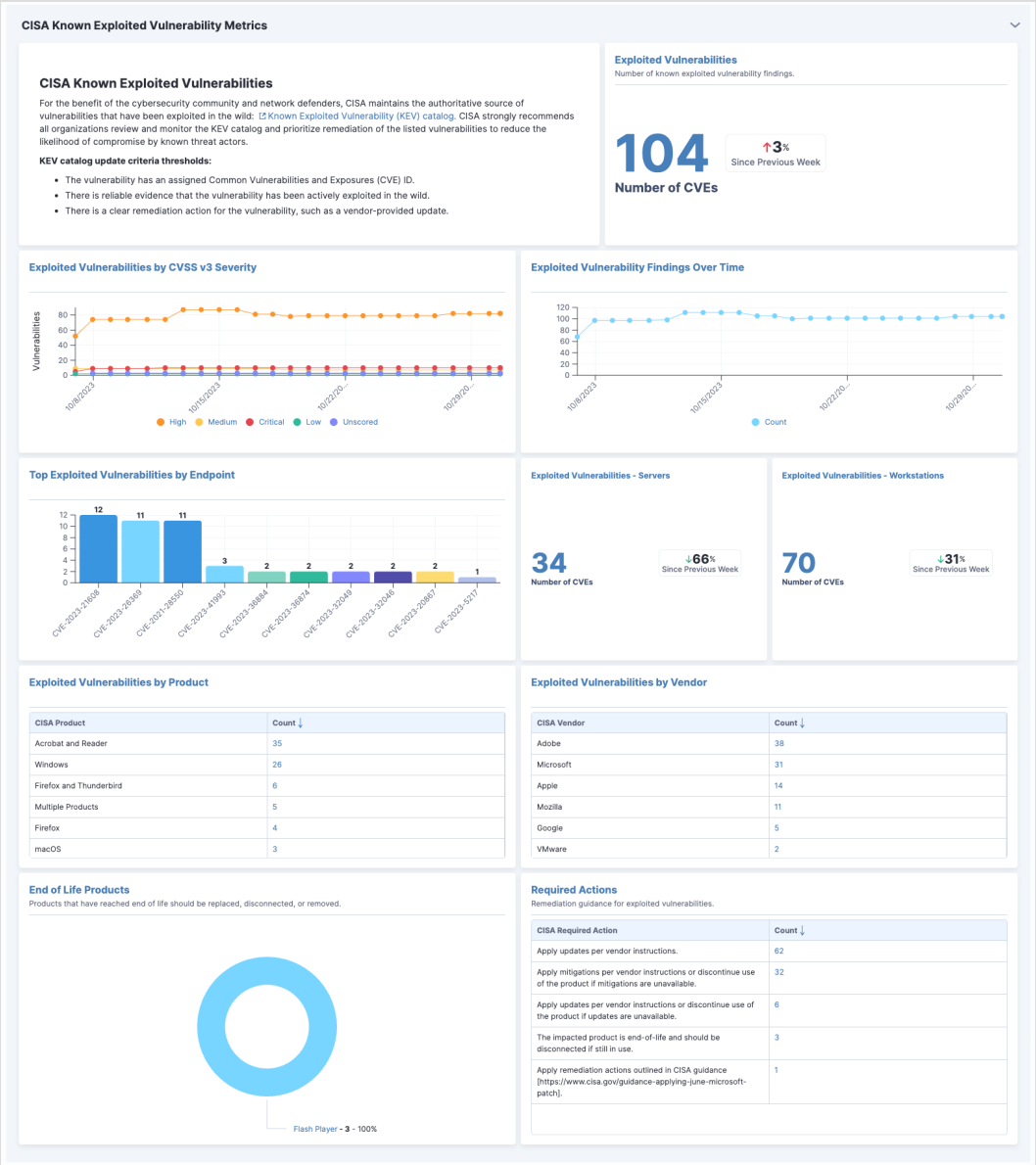
CISA Known Exploited Vulnerability Metrics

Use the data in the **CISA Known Exploited Vulnerability Metrics** section to assess your environment for CISA known exploited vulnerabilities and review remediation guidance.

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NOTE

The available charts and reports depend on the solutions currently installed and implemented in your environment. Therefore, the charts and reports for each section might vary between environments.



Vulnerability Management

Use the data in the **Vulnerability Management** section to assess the known vulnerabilities in software installed in your environment.

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NOTE

The available charts and reports depend on the solutions currently installed and implemented in your environment. Therefore, the charts and reports for each section might vary between environments.



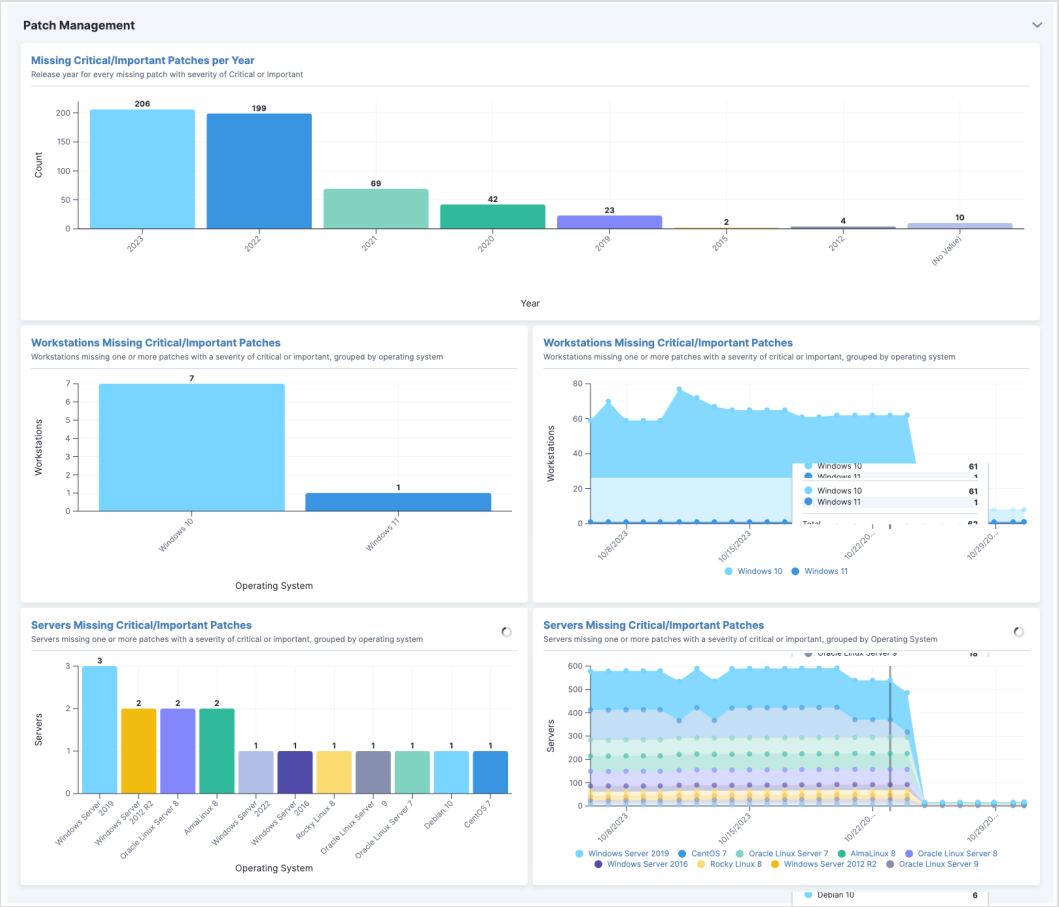
Patch Management

Use the data in the **Patch Management** section to assess the missing patches with a critical or important severity level in your environment.

NOTE

The available charts and reports depend on the solutions currently installed and implemented in your environment. Therefore, the charts and reports for each section might vary between environments.

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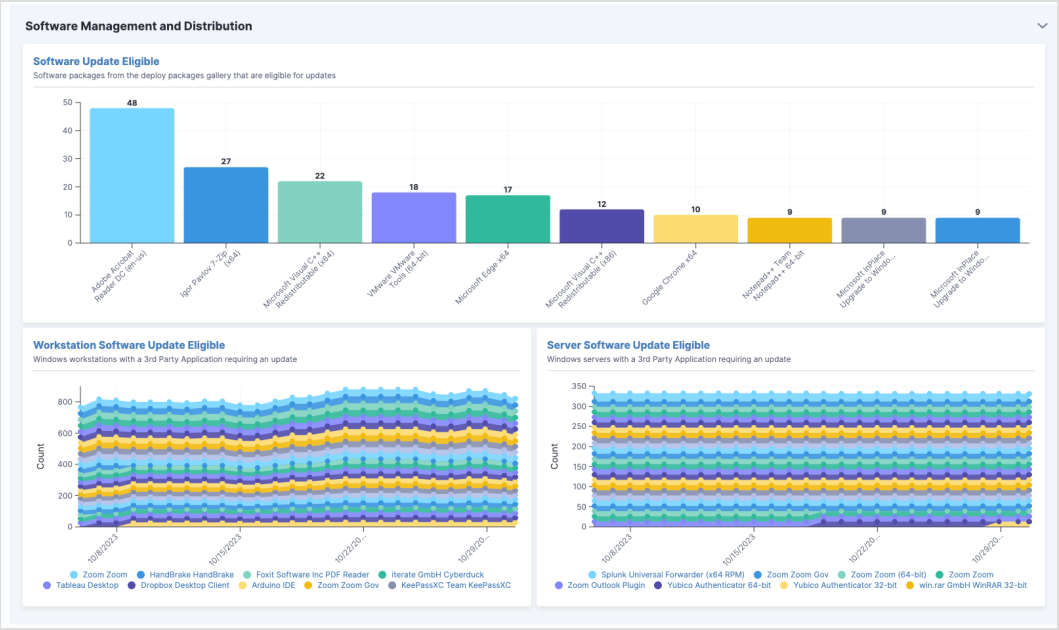


Software Management and Distribution

Use the data in the **Software Management and Distribution** section to assess the software and endpoint operating systems in your environment with available updates.

> **NOTE**
>
> The available charts and reports depend on the solutions currently installed and implemented in your environment. Therefore, the charts and reports for each section might vary between environments.

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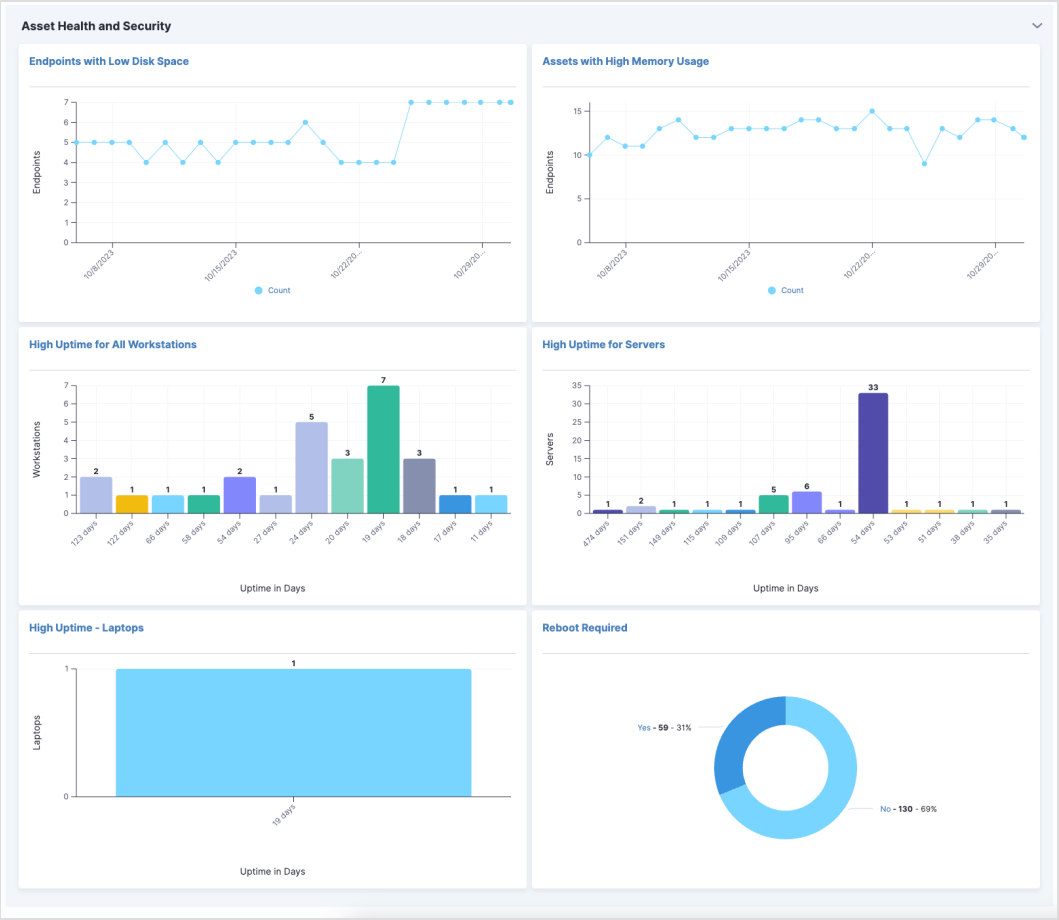


Asset Health and Security

Use the data in the **Asset Health and Security** section to assess the health of endpoints in your environment.

> **NOTE**
>
> The available charts and reports depend on the solutions currently installed and implemented in your environment. Therefore, the charts and reports for each section might vary between environments.

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What to do next

Use the data in this assessment to drive actions in your environment to improve your risk posture:

- Install patches and updates to software and operating systems with known exploited vulnerabilities.
- Update software to ensure that all available security fixes are applied on endpoints.
- Remediate issues with endpoint health:
    - Clean up disk drives or add additional storage for endpoints with low disk space.
    - Investigate the cause of high memory usage on endpoints and consider adding additional resources.
    - Reboot endpoints with high uptime or those that require a reboot.

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Reviewing your vulnerability dashboards

Review the impact of vulnerabilities in your environment with visual dashboards that are a collection of charts and reports. Vulnerabilities are evaluated based on impact and priority in your environment.

Vulnerability impact and priority calculation

Benchmark evaluates the vulnerabilities in your environment and provides both an impact score and priority score for each vulnerability. Vulnerability impact scores are calculated by multiplying CVSS v3 score and the number of endpoints that contain the vulnerability. Vulnerability priority scores are a calculation of vulnerability impact scores and endpoint criticality values.

Vulnerability impact formula

The following formula is used to calculate the vulnerability impact for a CVE:

```
Common Vulnerability Scoring System (CVSS) v3 score x Total # of Endpoints =
Vulnerability Impact
```

Vulnerability priority formula

The following formula is used to calculate the vulnerability priority for a CVE:

```
Vulnerability Impact x Average Endpoint Criticality Value = Vulnerability
Priority
```

Endpoint criticality value

Endpoint criticality is a level on an individual endpoint that is used to add context about the endpoint in the organization. Possible levels are **Critical**, **High**, **Medium**, and **Low**. These levels indicate the importance of the endpoint in your environment.

The score for an endpoint is adjusted based on the criticality level:

- **Low:** No adjustment to the score for the endpoint
- **Medium:** (Default) Multiplies the score for the endpoint by 1.33
- **High:** Multiplies the score for the endpoint by 1.67
- **Critical:** Multiplies the score for the endpoint by 2

For example, if an endpoint has a score of 200, but the endpoint is flagged as critical, the score reported for that endpoint is 400.

Benchmark uses Tanium Criticality to manage criticality levels for endpoints. For more information, see Tanium Criticality User Guide: Criticality overview.

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View your vulnerability dashboard

From the Main menu, go to **Modules > Benchmark > Vulnerability Dashboards**. You can select the **Computer Group** to use for the data. Click Refresh now to refresh the data in the charts. You can also adjust the auto refresh time frame.

Vulnerability metrics

Use the data in the Vulnerability Metrics section to gain insight into the highest vulnerability impact and vulnerability priority scores by CVE. You can select a CVE to view CVE details in Tanium Reporting. For more information, see Tanium Reporting User Guide: Working with reports.

Vulnerability metrics by CVE



High vulnerability CVEs

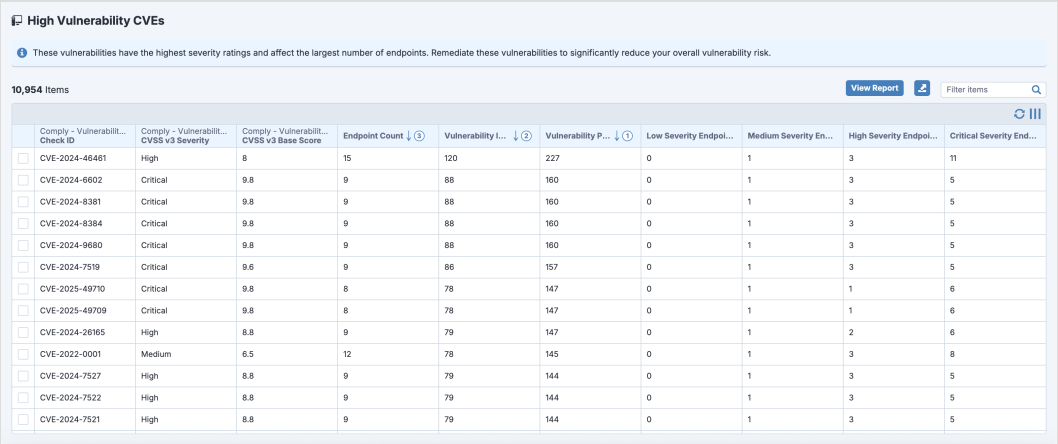
Use the data in the High Vulnerability CVEs table to gain insight into high-impact CVEs on your endpoints. Click Refresh to refresh the data.

IMPORTANT

To explore in Tanium Comply and remediate in Tanium Patch, you must have licenses for the associated modules.

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CVEs with the highest severity ratings

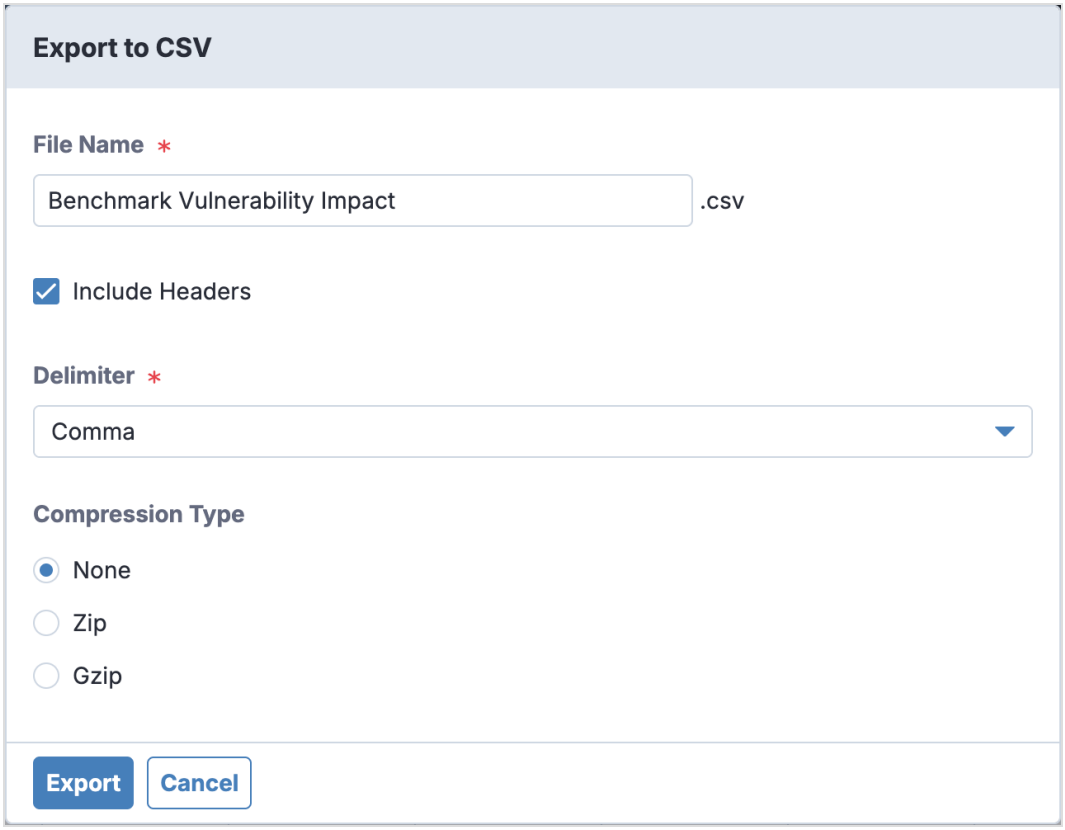


Comply - Vulnerabilit... Check ID	Comply - Vulnerabilit... CVSS v3 Severity	Comply - Vulnerabilit... CVSS v3 Base Score	Endpoint Count	Vulnerability I...	Vulnerability P...	Low Severity Endpoi...	Medium Severity En...	High Severity Endpoi...	Critical Severity End...
CVE-2024-46461	High	8	15	120	227	0	1	3	11
CVE-2024-6602	Critical	9.8	9	88	160	0	1	3	5
CVE-2024-8381	Critical	9.8	9	88	160	0	1	3	5
CVE-2024-8384	Critical	9.8	9	88	160	0	1	3	5
CVE-2024-9680	Critical	9.8	9	88	160	0	1	3	5
CVE-2024-7519	Critical	9.6	9	86	157	0	1	3	5
CVE-2025-49710	Critical	9.8	8	78	147	0	1	1	6
CVE-2025-49709	Critical	9.8	8	78	147	0	1	1	6
CVE-2024-26165	High	8.8	9	79	147	0	1	2	6
CVE-2022-0001	Medium	6.5	12	78	145	0	1	3	8
CVE-2024-7527	High	8.8	9	79	144	0	1	3	5
CVE-2024-7522	High	8.8	9	79	144	0	1	3	5
CVE-2024-7521	High	8.8	9	79	144	0	1	3	5

- Sort the table. By default, the table is sorted by vulnerability priority, vulnerability impact, and endpoint count, in that order of priority. You can select a column heading to sort the table by descending values for that category. Select the column heading again to sort by ascending values.
- Filter table items. Search for table items in the **Filter items** field. Filters apply to all table columns.
- Customize table columns. Click Customize Columns to select which columns are included in the table and select the left icon to reorder columns. Hover between column titles and drag the double-sided arrow to adjust column width. You can also hover over Information to learn more about columns.
- Investigate vulnerability findings. Select one or more table rows, and click **Explore in Comply** to view vulnerability findings. For more information, see Tanium Comply User Guide: Investigating Findings.
- Remediate vulnerability findings. Select one or more table rows. If there are applicable patches in the Patch module, you can click **Remediate in Patch** to view and take actions for missing patches. For more information, see Tanium Patch User Guide: Managing patches.
- View detailed data in Tanium Reporting. To open the **Benchmark Vulnerability Impact** report, click **View Report**. For more information, see Tanium Reporting User Guide: Working with reports.

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- Export table data. Click the Export button to view the **Export to CSV** window. Specify the file name, headers option, delimiter format, and compression type, then click **Export**.
  Export to CSV window settings



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Troubleshooting Benchmark

To collect and send information to Tanium for troubleshooting, collect logs and other relevant information.

Collect logs

The information is saved as ZIP files that you can download with your browser. The ZIP files are also known as a support bundle.

To download logs:

1. From the Main menu, go to **Modules > Benchmark > Overview**. Click Help .
2. From the **Troubleshooting** tab, select the solutions for which to gather troubleshooting packages and click **Create Packages**. By default, all solutions are selected.
3. When the packages are ready, click **Download Packages**.
   ZIP files of all the selected packages download to the local download directory.

   Some browsers might block multiple downloads by default. Make sure to configure your browser to permit multiple downloads from Tanium Console.
4. Contact Tanium Support to determine the best option to send the ZIP files. For information, see Contact Tanium Support on page 68.

Perform monthly maintenance

1. From the Main menu, go to **Modules > Benchmark > Metric Health**.
2. Review whether you are getting data for each Benchmark metric. For more information, see Monitor and troubleshoot Benchmark metric health on page 64.

Monitor and troubleshoot Benchmark metric health

From the Main menu, go to **Modules > Benchmark > Metric Health**. Use the **Metric Health** page to monitor and improve the data for each Benchmark metric.

Metric Health for Supported Endpoints

The **Metric Health for Supported Endpoints** chart shows how many supported Tanium Client managed endpoints are not sending data for a particular metric. Unsupported endpoints, for example, that use an operating system that is not supported by the metric, are not included in this count. Ideally, the values in this chart are as close to zero as possible. You can click a bar in the chart to view details about the status of that metric.

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NOTE

Some metrics do not return data that can be displayed in this chart. For example, the metric might be calculated across all endpoints, not calculated per endpoint. Some Threat Response data is sent only when an endpoint has data, but if an endpoint does not have data (for example, no alerts), no status is reported.

Metric Health

The **Metric Health** section includes detailed information about endpoints, whether they are supported for the metric and whether they are returning data.

Improve Metric Health

Improve your Benchmark data by regularly reviewing the metric health and making improvements to enable endpoints to return data.

1. From the Main menu, go to **Modules > Benchmark > Metric Health**.
2. Review detailed data for a metric. You can either click a bar in the **Metric Health for Supported Endpoints**, or select a metric in the **Filters** section.
3. Identify and resolve problems. In the **Metric Health** section, you can filter the results, or sort by columns in the table to group like results together.
    - **Sending Data**: If the value for this column is **No**, the endpoint is not returning results for this metric. Review the other columns for this endpoint to determine the potential issue. If the value is **Yes**, the endpoint is returning data and no further analysis is required.
    - **Solution Supported**: If the value for this column is **No**, the endpoint cannot return results for this metric. For example, the endpoint could be Linux operating and the metric is only supported for Windows. No further analysis is required for this endpoint.
    - **In Action Group**: If the value for this column is **No**, the endpoint is not in the Benchmark action group. For more information, see Configure the Benchmark action group on page 31.
    - **Health Status**: If the status is anything other than **Optimal**, the solution on the endpoint that is providing the metric data has a problem. Note the value for the **Tanium Solution** column, and then investigate the health status of endpoint in the related solution. For example, if a Patch metric has a health problem, you can investigate further by going to the Patch solution and looking at the **Patch Coverage** section of the home page.
4. Review individual endpoint details. In the **Metric Health** section, click Endpoint Details , then **View Details**.

Unable to generate or export Tanium Risk Assessment

On the **Tanium Risk Assessment** page, when you generate or export the Tanium Risk Assessment , you might see an error message at the top of the page or in the **Generate TRA Report** section. Use the information in the following table to resolve the errors.

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Tanium Risk Assessment errors

Error message or condition	Corrective action
No endpoints selected	Select up to three Windows endpoints in the computer group to demonstrate lateral impact risk. For more information, see (Optional) Generate a Tanium Risk Assessment on page 33.
User does not have required permissions to this data	Update your permissions. For more information, see Solutions and permissions for Tanium Risk Assessment on page 25.
• <*Solution*> is not available • <*Sensor*> sensor not found • Metrics unavailable	Update the solutions or sensors in your environment as needed. For more information, see Solutions and permissions for Tanium Risk Assessment on page 25.
Unable to generate the assessment for <*name*> computer group because no endpoints in the computer group currently have a Tanium risk score	Resolve issues with endpoints that cannot return data. For more information, see Monitor and troubleshoot Benchmark metric health on page 64.
Assessment does not generate	Try again to generate and export the assessment. If the error persists, Contact Tanium Support on page 68.

Remove Benchmark tools from endpoints

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

1. From the **Tanium Home** page, 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 **Risk**, drill down as necessary, and select the targets from which you want to remove Benchmark 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 **Risk**.
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.

   If reinstallation is blocked, you must unblock it manually:

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NOTE

- To allow Benchmark 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 Risk 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. To also remove any tools that were dependencies of the Risk tools that are not dependencies for tools from other solutions, 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.

Uninstall Benchmark

1. From the Main menu, go to **Administration > Configuration > Solutions**.
2. Select Benchmark, and click **Uninstall**.
3. Review the content that will be removed and click **Uninstall**.
4. Depending on your configuration, enter your password or click **Yes** to start the uninstall process.
5. Return to the **Solutions** page and verify that the **Import** button is available for Benchmark.

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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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Reference: Gateway examples for Benchmark

Tanium Gateway provides a GraphQL API integration point for Tanium solutions, including Benchmark. Benchmark queries retrieve endpoints and related risk overview or metric information.

Certain risk metric queries require additional Tanium solutions. For more information, see Solution dependencies on page 19.

For additional Gateway example syntax, see Tanium Gateway User Guide: Reference: Filter syntax and Tanium Gateway User Guide: Reference: Gateway examples.

Get endpoint with Tanium Risk Score 2.0 information

`query.endpoints.edges.node.sensorReadings (sensors.filters)`

GET ENDPOINT WITH RISK SCORE 2.0 INFORMATION

The following query retrieves the first endpoint with associated Benchmark overview information.

```
query exampleGetEndpoints($first: Int) {
  endpoints(first: $first) {
    edges {
      node {
        name
        sensorReadings(sensors: [{ name: "Tanium Risk Score" }]) {
          columns {
            sensor {
              name
            }
            name
            values
          }
        }
      }
    }
  }
}

```

Include a variable for the number of endpoints to return in the **Variables** panel or in your variables dictionary:

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```
{
  "first": 1
}
```

Example response:


```
{
  "data": {
    "endpoints": {
      "edges": [
        {
          "node": {
            "name": "example-endpoint",
            "sensorReadings": {
              "columns": [
                {
                  "sensor": {
                    "name": "Tanium Risk Score"
                  },
                  "name": "Risk Score",
                  "values": [
                    "438"
                  ]
                },
                {
                  "sensor": {
                    "name": "Tanium Risk Score"
                  },
                  "name": "Critical Severity Vulnerabilities Score",
                  "values": [
                    "665"
                  ]
                },
                {
```


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```
                    "sensor": {
                      "name": "Tanium Risk Score"
                    },
                    "name": "High Severity Vulnerabilities Score",
                    "values": [
                      "665"
                    ]
                  },
                  {
                    "sensor": {
                      "name": "Tanium Risk Score"
                    },
                    "name": "Compliance Failures Score",
                    "values": [
                      "486"
                    ]
                  },
                  {
                    "sensor": {
                      "name": "Tanium Risk Score"
                    },
                    "name": "Lateral Movement Risk Score",
                    "values": [
                      ""
                    ]
                  },
                  {
                    "sensor": {
                      "name": "Tanium Risk Score"
                    },
                    "name": "Insecure TLS/SSL Score",
                    "values": [
                      "0"
                    ]
```


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```
                },
                {
                  "sensor": {
                    "name": "Tanium Risk Score"
                  },
                  "name": "Expired Certificates Score",
                  "values": [
                    "0"
                  ]
                }
              ]
            }
          }
        ]
      }
    }
}
```

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