Tanium Discover User Guide

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Discover overview

With Discover, you can find and maintain an inventory of interfaces. When you install the Tanium™ Client on your endpoints, you can actively scan and monitor the local subnet or other defined network segments to detect unmanaged interfaces.

Interfaces are unique media access control (MAC) addresses. An endpoint with multiple network interface controllers (NICs) displays as multiple interfaces in Discover.

Managed interfaces are on endpoints that have the Tanium Client running and are managed by Tanium. *Unmanaged interfaces* are on the network but do not have the Tanium Client running.

Discover provides real-time information about unmanaged interfaces on your network.

Scan types

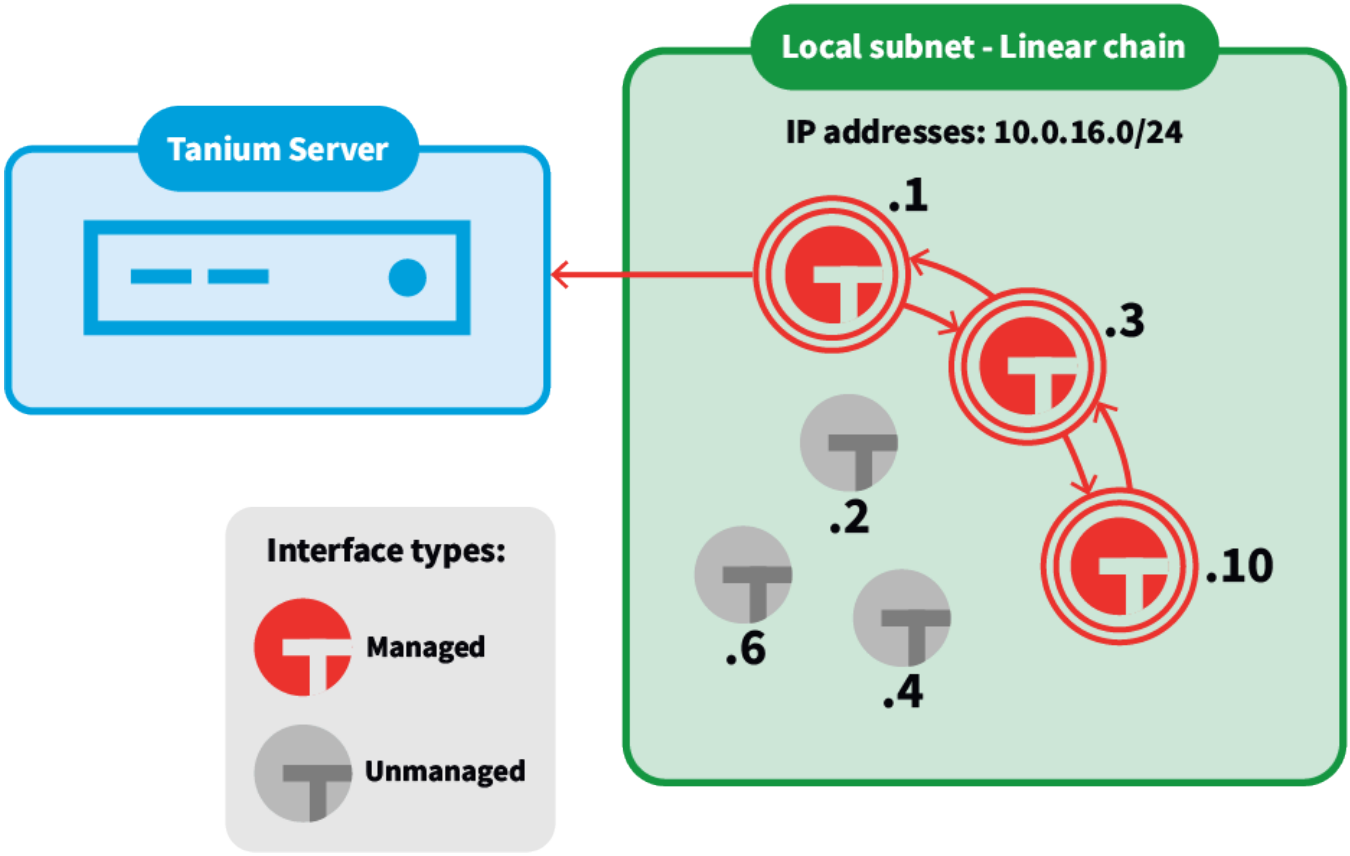
Scan types define which endpoints run Discover scans. For the most complete view of all unmanaged interfaces, use a combination of distributed and satellite scans.

Distributed scans

Configure distributed scans to use managed endpoints to scan for or detect unmanaged interfaces at configurable intervals. Discover queries endpoints for updated detection data periodically. New information is immediately available. The detection process provides continuous scanning without impact to network operations.

Figure 1. Distributed scan

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Satellite scans

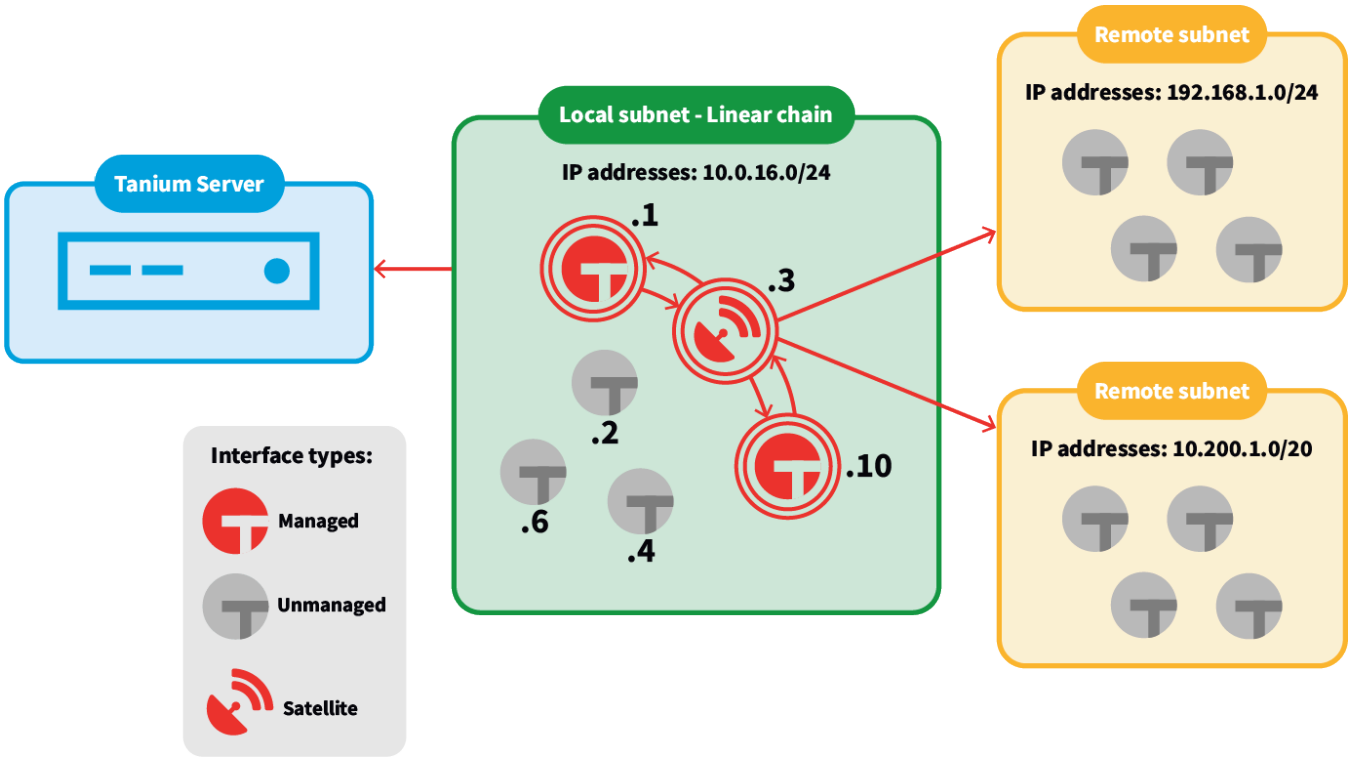
Configure satellite scans to use a satellite endpoint to scan for or detect unmanaged interfaces that cannot be reached directly from Tanium™ Module Server, such as subnets that have only a bridged connection to the main network.

Satellites are specific Tanium Clients that you designate to run certain targeted, secure workloads on behalf of Tanium Module Server. Because sensitive, encrypted data (such as credentials) might need to be sent to a satellite when running a workload, you must verify each endpoint that you designate as a satellite to prevent spoofing attacks. Any such sensitive data is never sent using the linear chain, nor is it stored on disk on the satellite.

For more information about how to manage satellites, see Tanium™ Direct Connect User Guide: Managing satellites.

Figure 2. Satellite scan

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Profiles for unmanaged interface discovery

Create profiles to detect interfaces that are on the network but not under Tanium management. Each profile consists of a set of network inclusions and exclusions, a discovery method, and schedule information. You can configure multiple profiles to cover different types of scans and to scan different parts of the network. For more information, see Running distributed scans on page 54 and Running satellite scans on page 69.

If you selected the **Automatic configuration with default settings option** during installation, a Level 2 ping distributed profile is created by default. You can use or edit this profile or create a new one. For more information about this type of profile, see Level 2 (ping) on page 56.

Discovery method impact

Before you configure a profile, you must understand the impact of the different discovery methods. Passive discovery methods use existing information on the endpoints to find interfaces, generating no network activity. Active discovery methods perform network scanning.

You can use four levels of distributed discovery. Satellite scans are equivalent to level 4 distributed scans. Lower levels of discovery are more passive, have less network impact, but provide a limited set of information. Higher levels perform active scans on the network, but provide more information

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about unmanaged interfaces, such as host name and operating system.

Discovery method network impact

Discovery Method	Approximate Bytes per IP Found (DNS Lookup Disabled)	Approximate Bytes per IP Found (DNS Lookup Enabled)
Distributed level 1 (ARP cache and interface connections)	0	512
Distributed level 2 (ping)	74	586
Distributed level 3 (Nmap scan with host discovery)	56	586
Distributed level 4 (Nmap scan with host discovery and OS fingerprinting, 1000 port default)	n/a	122000
Satellite	n/a	244000

All values are estimates and are calculated based on standard network equipment. Actual values can vary widely depending on your network configuration.

Profile configuration

Each profile is scoped by different network inclusions, exclusions, and schedules. With an active discovery method, you might choose to scope the discovery to run on a specific subnet a few times a day. Because passive discovery methods have less network impact, you might choose to scope the discovery to scan a broader part of the network every hour.

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Best Practice:

Overall, the best data is provided by satellite or distributed level 4 (Nmap scan with host discovery and OS fingerprinting) profiles. These profile types provide data that includes open ports and attempt to identify the OS platform and OS Generation. If Nmap is not allowed in your environment, the level 2 (ping) scan generates some OS Platform information.

Level 3 and level 1 scans provide the least information. Level 3 is a quick scan without port probing but finds all IP addresses using active ARP probing. The level 1 scan is passive and looks at connections or ARP cache to determine what the endpoint knows about without any network probing.

For more information about the data provided by each profile type, see Reference: Data returned by profile type on page 133.

Interface management

Organize interfaces by applying locations or labels. View statistics about interfaces over time.

Locations

Assign interfaces to geographic, physical, or logical locations. Define a hierarchy of network addresses, network address translation (NAT) addresses, and locations. Addresses can consist of an IP, IP range, or classless inter-domain routing (CIDR) address. The location hierarchy goes from a larger to smaller location, such as `country, state, city` or `Site, building, floor`. After the hierarchy is defined, locations are matched with the interfaces during the import process of a discovery scan. For more information, see Locations on page 89.

Labels

Labels include descriptive information or metadata that you can use to identify and group interfaces. Then, you can classify or search for interfaces based on the labels. You can also automatically apply labels or ignore interfaces based on a specifically defined set of conditions. To get started with labels, a gallery of commonly-defined labels is available. For more information, see Labels on page 94.

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Notifications

Discover records the following events:

- Found an unmanaged interface
- Found a new managed endpoint
- Lost an interface

With a connection in Tanium™ Connect, Discover can send these events to a destination, such as security information and event management (SIEM) system, email, or file. For example, use the **Found an unmanaged interface** event as an alert to the operations team, so they install Tanium on unmanaged interfaces.

For more information about how to configure the Discover notifications connection, see Create connection for event notifications on page 107.

Tanium Autonomous IT Platform in Discover

Tanium Autonomous IT Platform comprises a set of interrelated features across multiple Tanium solutions that collect real-time intelligence about conditions in your environment. Tanium Discover provides the following Autonomous IT Platform features:

- **Guide notifications**: Discover can generate Guide observations related to unmanaged and lost interfaces. Tanium operators that receive these observations can view the affected interfaces and then determine next steps. For more information, see Tanium Guide User Guide: Viewing and managing notifications.

  Important: To ensure that only users with necessary permissions can see observations, Discover-related observations are not available if you have assigned user groups to any location.

Interoperability with other Tanium products

Discover integrates with other Tanium products to provide additional features and reporting.

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Tanium™ Client Management

You can apply labels to unmanaged interfaces to target endpoints in Client Management deployments.

Tanium™ Guide

Tanium Guide can generate Discover-related notifications for Tanium operators, which provide insight into unmanaged and lost interfaces.

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

Tanium™ Reporting

Discover uses Tanium™ Reporting to create charts and reports. For more information, see Tanium Reporting.

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Gaining organizational effectiveness with Discover

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

- Develop a dedicated change management process. For more information, see Change management on page 17.
- Define distinct roles and responsibilities. For more information, see RACI chart on page 18.
- Validate cross-functional alignment. For more information, see Organizational alignment on page 19.
- Develop a deployment plan. For more information, see Develop a deployment plan on page 20.
- Track operational maturity. For more information, see Operational metrics on page 20.

Change management

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

- Update SLAs and align activities to key resources for Tanium Discover activities across IT Security, IT Operations, and IT Risk / Compliance.
- Designate change or maintenance windows for various asset discovery scenarios. Scanning activities, such as ARP, Ping, or Nmap scanning of the network, require planning and testing.
- Identify internal and external dependencies to your asset discovery process, such as required network controls.
- Create a Tanium Steering Group (TSG) for discovery activities to expedite reviews, and approvals of processes that align with SLAs.

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RACI chart

A RACI chart identifies the team or resource who is Responsible, Accountable, Consulted, and Informed, 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 finding unmanaged interfaces. Use the following table as a baseline example.

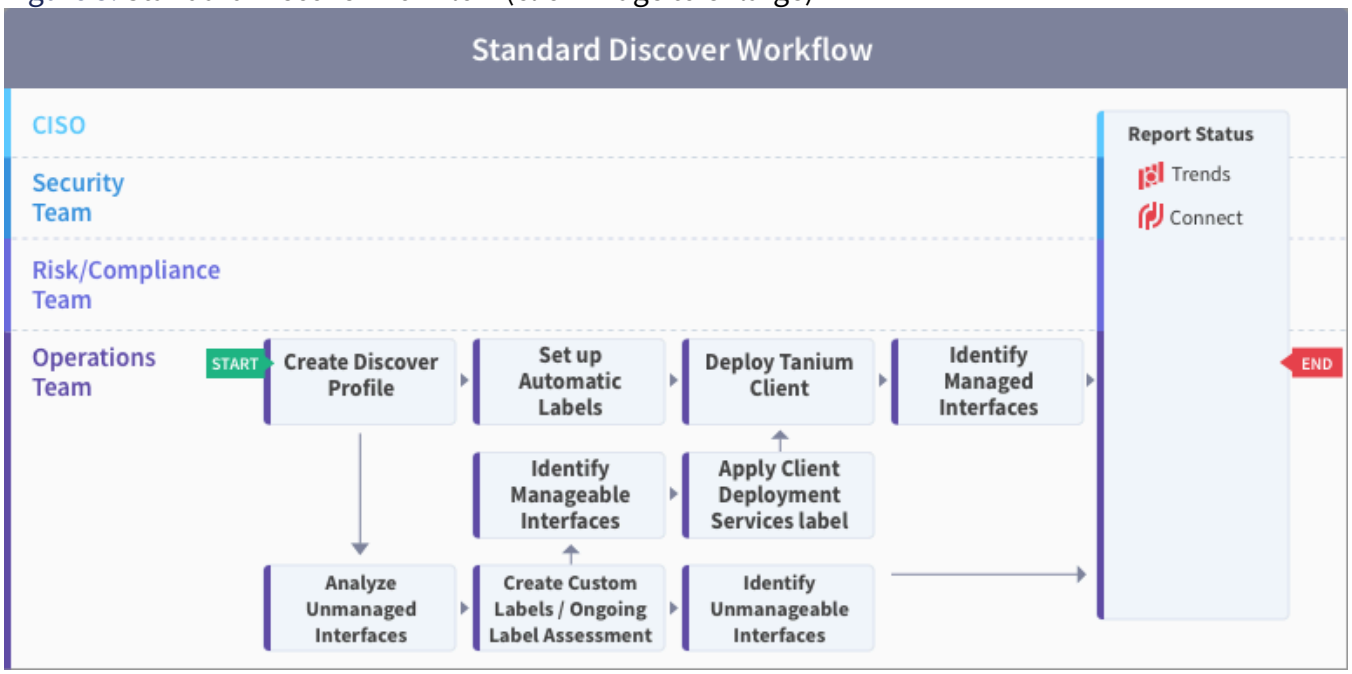
RACI chart for Tanium Discover

Task	IT Security	IT Operations	IT Risk/ Compliance	Executive	Rationale
Determine Discover scanning types	C	R/A	-	-	When you configure scanning activity, use careful planning, change control, and testing to measure the potential network impact.
Analyze unmanaged interfaces	C	R/A	-	-	After a scan runs, all interfaces across the network are reported as managed (Tanium Client installed) or unmanaged interfaces. This list is a baseline to review and start the labeling process.
Identify manageable interfaces or create custom labels / ongoing label assessment	C	R/A	-	-	The Discover Label Gallery contains pre-defined labels that you can import to apply to discovered interfaces. You can also create custom labels and apply to discovered interfaces.
Apply Client Deployment Services label / Identify unmanageable interfaces	C	R/A	-	-	Use Discover labels to target installation of the Tanium Client by Tanium Client Management. Labels can be applied automatically or manually by the administrator as needed.

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Task	IT Security	IT Operations	IT Risk/ Compliance	Executive	Rationale
Report status	C	R/A	C/I	C/I	Automate reporting with Reporting dashboards, or integrate with other tools such as a SIEM or CMDB. Share reports that require action or remediation with executives or other owners.

Figure 3. Standard Discover workflow (click image to enlarge)



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 discovery of unmanaged interfaces.

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Develop a deployment plan

Because Discover introduces some minimal network traffic, it is important to work with the correct stakeholders to understand how Discover is used in the environment.

- Evaluate discovery method options. For more information about discovery method options and the data that gets returned by each discovery method, see Running distributed scans on page 54, Running satellite scans on page 69, and Reference: Data returned by profile type on page 133.
- Define network exceptions and exclusions. Determine sensitive ports that should not be scanned and VPN networks to exclude. The list of VPN networks is often the same list as isolated subnets.
- Gather a list of subnets in the environment. This list is required to create a rollout plan and configure satellite scanning. You also must have this list to define locations in Discover.
- Create a network rollout plan. The simplest option is to select **All Networks** when you create a profile, and scan all networks at the same time. You can also scan by subnet. Get a listing of all client subnets in the environment and build a deployment plan for each subnet.
- Determine any networks that have no Tanium Clients installed, for satellite scanning.
- Determine the schedule for scanning and network tolerance.
- Determine if any servers require specific scan windows.

Operational metrics

Discover maturity

Managing an asset discovery 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 Discover program are as follows:

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Processes to measure Tanium Discover maturity

Process	Description
Usage	How and when Tanium Discover is used in your organization (example: is Discover supplemental for another legacy tool)
Automation	How Tanium Discover is automated across endpoints
Functional Integration	How Tanium Discover is integrated across IT security, IT operations, and IT risk/compliance teams (examples: automated client deployments, data sent to external destinations)
Reporting	How Tanium Discover is automated, and the audience of Discover reporting

Benchmark metrics

The key benchmark metrics that align to the operational maturity of the Tanium Discover program to achieve maximum value and success follow:

Benchmark metrics for Tanium Discover maturity

Executive Metrics	Interfaces Managed	Mean Time to Managed
Description	Percentage of interfaces that are currently being managed by the Tanium platform, divided by the total number of discovered interfaces (not counting ignored interfaces).	Average number of days or hours to bring an endpoint under management, or to mark the interface as unmanaged or unmanageable.
Instrumentation	Managed / (Unmanaged + Managed)	For a managed client, calculate the time elapsed between when an endpoint was **First Seen** until it was **First Managed** .
Why this metric matters	If a given device is not managed by Tanium, the device cannot be secured and managed.	If a new device takes a long time to become managed, efficacy of Tanium tooling is limited and potential exposure to bad actors increases.

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

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Maturity levels for Tanium Discover

		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
Process	Usage	Discover is configured, initial unmanaged interfaces visible	Baseline visibility of unmanaged interfaces with Tanium Client	Discover used to audit and target installation of Tanium Client on unmanaged interfaces	Discover used to audit and take action on unmanaged interfaces	Discover used to audit and take action on unmanaged interfaces
	Automation	One or more profiles configured: • Level 1 passive scan: Address Resolution Protocol (ARP) • Level 2 scan: Ping	Define and configure customized Level 3 or 4 Nmap profile	Base labels configured, Discover label gallery imported Set up satellite scanning profiles for any gaps in network	Custom locations configured for tracking and visual representation for responsible teams	Custom labels built based on an understanding of the network and client environment for tracking devices and interfaces in the environment that are unauthorized, built alerting workflow with Tanium Connect
	Functional integration	N/A	Verification of settings to not cause false security alerts, tune settings for Nmap configuration	Reporting dashboards imported, scanning gaps conducted of subnets	Automated installation of Tanium Client on unmanaged interfaces or previously managed interfaces based on labels	Real-time alerting configured to ticketing system, SIEM for data correlation and intelligence
	Reporting	Manual;	Manual;	Automated;	Automated;	Automated; Reporting

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		Level 1 (Initializing)	Level 2 (Progressing)	Level 3 (Intermediate)	Level 4 (Mature)	Level 5 (Optimized)
		Discover workbench dashboard for operators only	Discover workbench dashboard for operators and peer group only	Reporting dashboards for operators and peer group only	Reporting dashboards tailored to stakeholders ranging from operator to executive	dashboards tailored to stakeholders ranging from operator to executive
Metrics	Endpoints Managed	0-49%	50-64%	65-84%	85-94%	95-100%
	Mean Time to Manage	> 30 days	8-30 days	1-7 days	1-24 hours	0-3 hours

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Discover requirements

Review the requirements before you use Discover.

Core platform dependencies

Make sure that your environment meets the following requirements:

- Tanium license that includes Discover. For more information about how to get Discover, see Tanium Solutions & Bundles.
- Tanium™ Core Platform servers
- Tanium Client:

  Any supported version of Tanium Client. For more information, see Client version and host system requirements. If you use a Client version that is not listed, certain product features might not be available, or stability issues can occur that can only be resolved by upgrading to one of the listed Client versions.

Computer group dependencies

When you first sign in to Tanium™ Console after a fresh installation of Tanium Server, the server automatically imports the computer groups that Discover requires: `All Computers`.

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

Solution dependencies

Other Tanium solutions are required for Discover to function (required dependencies) or for specific Discover 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.

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Note: Some Discover dependencies have their own dependencies, which you can see in the lists of required and feature-specific dependencies below. Where a dependency links to its own user guide, that link opens the guide for the latest version of the solution, not necessarily the minimum version that Discover requires.

Tanium recommended installation

If you select **Tanium Recommended Installation** when you import Discover, 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 Discover 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 Discover, the server automatically updates those dependencies to the latest available versions.

Required dependencies

Discover has the following required dependencies:

- Tanium Client Management
- Tanium™ Core Content
- Tanium™ Data Service (TDS)
- Tanium™ Default Content
- Tanium™ Endpoint Configuration
- Tanium™ Interact
- Tanium™ RDB Service
- Tanium™ Secrets Service
- Tanium Reporting

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Feature-specific dependencies

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

- Tanium™ Direct Connect is required to run satellite scans
- Tanium™ Connect is required to export Discover data

Client extensions and endpoint tools

Tanium Endpoint Configuration installs Client Extensions and other tools for 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 a list of all Client Extensions and tools, see Reference: Client extensions used for Tanium solutions.



Note: The change management feature of Endpoint Configuration might affect the version of each endpoint tool installed on endpoints.

Tanium™ Module Server

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

For more information, see Tanium Core Platform Installation Guide: Host system resource guidelines.

Endpoints

Supported internet protocols

Discover scans for IPv4 addresses and, optionally, IPv6 addresses. You can use any distributed or satellite scan to find endpoints by IPv4 address. For IPv6, you can use level 1 distributed scans to find endpoints. For more information about distributed scans, see Running distributed scans on page 54. For more information about enabling IPv6 compatibility, see Toggle IPv6 compatibility on page 48.

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Supported operating systems

For more information about Tanium Client operating system support, see Tanium™ Client Management User Guide: Client version and operating system requirements. Managed endpoints perform discovery scans.

Supported operating systems for Tanium Discover

Operating System	Version	Notes
Windows	Windows 7 SP1 or later and Windows Server 2008 R2 SP1 or later If the endpoints are not up-to-date and Python content does not run, it might generate an error about `nt._add_dll_directory` with `The specified procedure could not be found`. For more information, see Microsoft Security Advisory.	• Windows 7 SP1 requires Microsoft KB2758857. • Windows Server 2008 R2 SP1 requires Microsoft KB2758857.
macOS	Same as Tanium Client support	Discover automatically filters out interfaces with MAC addresses of `ac:de:48:00:11:22` and `ac:de:48:33:44:55`. These addresses are commonly used for communication between a macOS machine and the BridgeOS in the Touch Bar.
Linux	Same as Tanium Client support	
Solaris	Same as Tanium Client support	**Note:** Solaris endpoints cannot be designated as satellites.
AIX	7.1.4 or later	The IBM XL C++ runtime libraries file set (xlC.rte), version 16.1.0.0 or later, and the IBM LLVM runtime libraries file set (libc++.rte) must be installed. For more information, see Tanium Client Management User Guide: Deploy the Tanium Client to AIX endpoints using a package file.

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Operating System	Version	Notes
		Note: Discover does not support AIX endpoints for IPv6 distributed scans. **Note:** AIX endpoints cannot be designated as satellites.

Supported platforms for each discovery method

	Level 1 (ARP cache)	Level 1 (Interface Connections)	Level 2 (Ping)	Level 3/4 (Nmap) and Satellite
Windows	✓	✓	✓	✓
Linux	✓	✓	✓	✓
macOS	✓	✓	✓	✓
Solaris	✓	✓	✓ 2	✗ 1
AIX	✓	✓	✓	✗ 1

1 For level 3 and 4 discovery on Solaris and AIX, level 2 discovery is used because Nmap is not supported on these platforms.

2 Solaris endpoints do not perform OS detection.

Host and network security requirements

Specific ports and processes are needed to run Discover.

Communication ports and destinations

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The following ports and protocols are required for Discover communication.

Ports for Tanium Discover communication

Source	Destination	Port	Protocol	Purpose
Module Server	Module Server (loopback)	17446	TCP and UDP	Internal purposes for Discover; not externally accessible
	Module Server (loopback)	17447	TCP and UDP	Internal purposes for Discover; not externally accessible
	content.tanium.com	443	TCP and UDP	Module Server (TaniumModuleServer.exe) communication with content.tanium.com to import updates
Tanium Server	content.tanium.com	443	TCP and UDP	Tanium Server (TaniumReceiver.exe) communication with content.tanium.com to import updates

Scan ports and destinations

The following ports and protocols are required for Discover scanning.

Ports for Tanium Discover scanning

Source	Destination	Scan Type	Port	Protocol	Purpose
Tanium Client	Configured DNS servers for the client	Level 1 or level 2 distributed scans for which **Use host name lookup to resolve host names** is selected	53	UDP	Level 1 or level 2 distributed scans configured to use host name lookup for resolving host names use DNS for host name resolution.
	Devices with an IP address in the same subnet as the Tanium Client	Level 1 or level 2 distributed scans for which **Use host name lookup to**	• 137 (Windows only) • 5355 (Windows	• netbios-ns • LLMNR	On Windows endpoints, level 1 or level 2 distributed scans configured to use host name lookup for resolving host names might use netbios or LLMNR for name resolution if enabled in the operating system on the Tanium

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Source	Destination	Scan Type	Port	Protocol	Purpose
		resolve host names is selected	only)		Client.
		Level 2 distributed	N/A	ICMP	Level 2 distributed scans require ICMP echo-request and echo-response traffic from all managed endpoints to all other devices on the Tanium Client subnet.
		Level 3 distributed	N/A	ARP	Level 3 distributed scans require ARP-request traffic from the managed endpoint on the Tanium Client subnet.
		Level 4 distributed	1000 most common TCP ports (default setting)	• ARP • TCP	Level 4 distributed scans require ARP-request traffic from the managed endpoint on the Tanium Client subnet. Additionally, by default, Discover scans the 1000 most commonly used TCP ports on the Tanium Client subnet to calculate the **OS Generation** field. You can change this setting in the scan profile. For more information, see Running distributed scans on page 54 .
Satellite	Local network	Satellite	N/A	ARP	Satellite scans on a local network require ARP-request traffic from the managed endpoint on the Tanium Client subnet.
			1000 most common open TCP ports (default setting)	TCP	Additionally, by default, Discover scans the 1000 most commonly used TCP ports on the Tanium Client subnet to calculate the **OS Generation** field. You can change this setting in the scan profile. For more information, see Running satellite scans on page 69 .
	Remote subnets	Satellite	N/A	ICMP	Remote network satellite scans require ICMP traffic to all IP addresses specified in the scan

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Source	Destination	Scan Type	Port	Protocol	Purpose
			1000 most common open TCP ports (default setting)	TCP	By default, Discover scans the 1000 most commonly used TCP ports on the Tanium Client subnet to calculate the **OS Generation** field. You can change this setting in the scan profile. For more information, see Running satellite scans on page 69 .

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 Reference: Endpoint security exclusions. For Windows-based Tanium Core Platform deployments, see 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.

Discover server exclusions

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

Target Device	Notes	Exclusion Type	Exclusion
Module Server		Process	*<Module Server>* \services\discover-service\node.exe
		Process	*<Module Server>* \plugins\content\discover-proxy\proxyplugin.exe
		Process	*<Module Server>* \services\twsm-v1\twsm.exe
		Process	*<Module Server>* \services\endpoint-configuration-service\TaniumEndpointConfigService.exe

Discover endpoint exclusions

Discover security exclusions for endpoints

Endpoint OS	Notes	Exclusion Type	Exclusion
Windows		Process	*<Tanium Client>* \TaniumCX.exe
		File	*<Tanium Client>* \TaniumClientExtensions.dll
		File	*<Tanium Client>* \TaniumClientExtensions.dll.sig
		File	*<Tanium Client>* \extensions\SupportCX.dll
		File	*<Tanium Client>* \extensions\SupportCX.dll.sig
		File	*<Tanium Client>* \extensions\TaniumConfig.dll
		File	*<Tanium Client>* \extensions\TaniumConfig.dll.sig
		File	*<Tanium Client>* \extensions\discover\data\discover.db
		File	*<Tanium Client>* \extensions\discover\data\discover.db-wal

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Endpoint OS	Notes	Exclusion Type	Exclusion
		File	*<Tanium Client>* \extensions\discover\data\discover.db-shm
	(Distributed level 3, distributed level 4, and satellite profiles only)	Folder	C:\Program Files\Npcap
	(Distributed level 3, distributed level 4, and satellite profiles only)	Process	*<Tanium Client>* \Tools\Discover\nmap\nmap.exe
	(When Direct Connect is installed; satellite profiles only)	File	*<Tanium Client>* \extensions\TaniumDEC.dll
	(When Direct Connect is installed; satellite profiles only)	File	*<Tanium Client>* \extensions\TaniumDEC.dll.sig
	(Satellite profiles only)	File	*<Tanium Client>* \extensions\TaniumDiscover.dll
	(Satellite profiles only)	File	*<Tanium Client>* \extensions\TaniumDiscover.dll.sig
	(Satellite profiles only)	File	*<Tanium Client>* \extensions\TaniumExtras.dll
	(Satellite profiles only)	File	*<Tanium Client>* \extensions\TaniumExtras.dll.sig
Linux		Process	*<Tanium Client>* /TaniumCX
		File	*<Tanium Client>* /libTaniumClientExtensions.so
		File	*<Tanium Client>* /libTaniumClientExtensions.so.sig
		File	*<Tanium Client>* /extensions/libSupportCX.so
		File	*<Tanium Client>* /extensions/libSupportCX.so.sig
		File	*<Tanium Client>* /extensions/libTaniumConfig.so
		File	*<Tanium Client>* /extensions/libTaniumConfig.so.sig
		File	*<Tanium Client>* /extensions/discover/data/discover.db
		File	*<Tanium Client>* /extensions/discover/data/discover.db-wal

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Endpoint OS	Notes	Exclusion Type	Exclusion
		File	*<Tanium Client>* /extensions/discover/data/discover.db-shm
	(Distributed level 3, distributed level 4, and satellite profiles only)	Process	*<Tanium Client>* /Tools/Discover/nmap/nmap
	(When Direct Connect is installed; satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDEC.so
	(When Direct Connect is installed; satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDEC.so.sig
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDiscover.so
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDiscover.so.sig
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumExtras.so
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumExtras.so.sig
macOS		Process	*<Tanium Client>* /TaniumCX
		File	*<Tanium Client>* /libTaniumClientExtensions.dylib
		File	*<Tanium Client>* /libTaniumClientExtensions.dylib.sig
		File	*<Tanium Client>* /extensions/libSupportCX.dylib
		File	*<Tanium Client>* /extensions/libSupportCX.dylib.sig
		File	*<Tanium Client>* /extensions/libTaniumConfig.dylib
		File	*<Tanium Client>* /extensions/libTaniumConfig.dylib.sig
		File	*<Tanium Client>* /extensions/discover/data/discover.db
		File	*<Tanium Client>* /extensions/discover/data/discover.db-wal
		File	*<Tanium Client>* /extensions/discover/data/discover.db-shm

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Endpoint OS	Notes	Exclusion Type	Exclusion
	(Distributed level 3, distributed level 4, and satellite profiles only)	Process	*<Tanium Client>* /Tools/Discover/nmap/nmap
	(When Direct Connect is installed; satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDEC.dylib
	(When Direct Connect is installed; satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDEC.dylib.sig
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDiscover.dylib
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumDiscover.dylib.sig
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumExtras.dylib
	(Satellite profiles only)	File	*<Tanium Client>* /extensions/libTaniumExtras.dylib.sig

User role requirements

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

- solution permissions on page 36
- administration and platform content permissions on page 40: The solution permissions automatically provide some of these permissions.

For more information about predefined roles, see Set up Discover users on page 51.

Optional roles for on page 42 are required to enable optional Discover functionality.

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

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of the Tanium Console User Guide:

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



Note: Do not assign the **Discover Service Account** role to users. This role is for internal purposes only.

Discover solution permissions

Permission	Discover Administrator [1]	Discover Operator [1]	Discover User [1,2]	Discover Read Only User [1]	Discover Endpoint Configuration Approver [1,2,3]	Discover Optional Feature Administrator
Discover View managed and unmanaged interfaces	✓ SHOW	✓ SHOW	✓ SHOW	✓ SHOW	✗	✗
Discover API Use the Discover API	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✗
Discover Asset View lists of managed and unmanaged interfaces; export data from interface tables; apply or remove label on an interface	✓ READ WRITE	✓ READ WRITE	✓ READ WRITE	✓ READ	✗	✗

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Permission	Discover Administrator [1]	Discover Operator [1]	Discover User [1,2]	Discover Read Only User [1]	Discover Endpoint Configuration Approver [1,2,3]	Discover Optional Feature Administrator
Discover Components Manage backend components, including Discover action groups and computer groups	✗	✗	✗	✗	✗	✗
Discover Connect Integration Service Account Enable the Discover service account to interface with Connect	✗	✗	✗	✗	✗	✗
Discover Endpoint Configuration Approve Discover configuration changes in the Endpoint Configuration service	✗	✗	✗	✗	✓ APPROVE	✗
Discover Keys Rotate keys	✓ ROTATE	✗	✗	✗	✗	✗

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Permission	Discover Administrator [1]	Discover Operator [1]	Discover User [1,2]	Discover Read Only User [1]	Discover Endpoint Configuration Approver [1,2,3]	Discover Optional Feature Administrator
used to encrypt sensitive data						
Discover Location Permissions Define locations and corresponding permissions for user groups	✓ WRITE	✓ WRITE	✗	✗	✗	✗
Discover Locations Define locations by importing CSV file	✓ WRITE	✓ WRITE	✗	✗	✗	✗
Discover Manual Import Import interfaces manually with the **Discover Unmanaged Interfaces** button	✓ EXECUTE	✓ EXECUTE	✓ EXECUTE	✗	✗	✗
Discover Optional Feature Access to module	✓ WRITE	✓ WRITE	✗	✗	✗	✓ WRITE

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Permission	Discover Administrator [1]	Discover Operator [1]	Discover User [1,2]	Discover Read Only User [1]	Discover Endpoint Configuration Approver [1,2,3]	Discover Optional Feature Administrator
settings for Discover						
Discover Profile View, create, edit, and delete Discover profiles	✓ READ WRITE	✓ READ WRITE	✓ READ	✓ READ	✓ READ	✗
Discover Settings Edit Discover settings	✓ WRITE	✗	✗	✗	✗	✗
Discover Tag Create or remove labels	✓ WRITE	✓ WRITE	✓ WRITE [6]	✗	✗	✗
Discover TDS Integration Service Account Provide access to promote Discover data to Tanium™ Data Service (TDS)	✗	✗	✗	✗	✗	✗

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

[2] If location permissions are defined, **Discover User** role cannot create labels.

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Permission	Discover Administrator [1]	Discover Operator [1]	Discover User [1,2]	Discover Read Only User [1]	Discover Endpoint Configuration Approver [1,2,3]	Discover Optional Feature Administrator

[3] By default, configuration changes that the solution service account initiates (such as tool deployment) require approval if you enabled configuration approvals in Endpoint Configuration. To bypass approval for solution-generated configuration changes, apply the Endpoint Configuration Bypass Approval permission to the relevant content sets in the Service Account role. For more information, see Tanium Endpoint Configuration User Guide: User role requirements and Tanium Endpoint Configuration User Guide: Managing approvals.

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 **Discover show** permission to view unmanaged and lost interface observations.

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

Discover administration and platform content permissions

Permission	Permission type	Discover Administrator	Discover Operator	Discover User	Discover Read Only User	Discover Endpoint Configuration Approver	Discover Optional Feature Administrator
Action Group	Administration	READ	READ	READ	READ		
Computer Group	Administration	READ	READ	READ	READ	READ	

Permission	Permission type	Discover Administrator	Discover Operator	Discover User	Discover Read Only User	Discover Endpoint Configuration Approver	Discover Optional Feature Administrator
Server Status	Administration	READ	READ	READ	READ	READ	
User	Administration	READ					
User Group	Administration						
Action	Platform Content	READ WRITE	READ WRITE	READ	READ	READ	
Filter Group	Platform Content	READ	READ	READ	READ	READ	
Own Action	Platform Content	READ	READ				
Package	Platform Content	READ	READ				
Plugin	Platform Content	READ EXECUTE	READ EXECUTE	READ EXECUTE	READ EXECUTE	READ EXECUTE	READ EXECUTE
Saved Question	Platform Content	READ	READ	READ	READ	READ	
Sensor	Platform Content						

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Permission	Permission type	Discover Administrator	Discover Operator	Discover User	Discover Read Only User	Discover Endpoint Configuration Approver	Discover Optional Feature Administrator
		READ	READ	READ	READ	READ	

To view the content sets to which the platform content permissions apply, see View effective role permissions .

Optional roles for Discover

Role	Enables
Connect User	For signed in user: • Configure connections for Discover notifications • Configure connections for exporting interface reports
Administrator	Create Reporting dashboards from Discover sources

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Installing Discover

About this task

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

- Automatic configuration with default settings: Discover is installed with any required dependencies and other selected products. After installation, the Tanium Server automatically configures the recommended default settings. This option is the best practice for most deployments. For more information about the automatic configuration for Discover, see Import Discover with default settings on page 43.
- Manual configuration with custom settings: After installing Discover, you must manually configure required settings. Select this option only if Discover requires settings that differ from the recommended default settings. For more information, see Import Discover with custom settings on page 44.

Before you begin

- Read the release notes.
- Review the Discover requirements on page 24.
- For more information about how to upgrade from a previous version of Discover, see Upgrade Discover on page 45.

  Review the User role requirements on page 35 and assign the correct roles to Discover users. For more information, see Tanium Console User Guide: Managing roles.

  - To import Discover, you must be assigned the Administrator reserved role.
  - To configure the Discover action group, you must be assigned the Content Administrator reserved role or a role that has the **Action Group write** permission.

Import Discover with default settings

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About this task

You can set the Discover action group to target the **No Computers** filter group by enabling restricted targeting before importing Discover. This option enables you to control Discover tools deployment through scheduled actions that are created during the import and that target the Discover action group. For example, you might want to test Discover tools on a subset of endpoints before deploying the Discover tools to all endpoints. In this case, you can manually deploy the Discover 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 Discover with the **Tanium Recommended Installation** workflow, the following default settings are configured:

Default settings for Tanium Discover

Setting	Default value
Action group	• Restricted targeting disabled (default): `All Computers` computer group • Restricted targeting enabled: `No Computers` computer group
Level 2 ping distributed profile	This profile is created and deployed to all Tanium Clients. For more information about this type of profile, see Level 2 (ping) on page 56 .

For more information about how to import Discover and configure default settings, see Tanium Console User Guide: Import all modules and services. For more information about how to verify that the correct version is installed after the import, see Verify Discover version.

Import Discover with custom settings

About this task

To import Discover without automatically configuring default settings, be sure to clear the **Apply All Tanium recommended configurations** checkbox while performing the steps in Tanium Console User Guide: Import or update specific solutions. For more information about how to verify that the correct version is installed after the import, see Verify Discover version on page 0.

For more information about how to configure the Discover action group, see Configuring Discover on page 46.

For more information about how to configure the import frequency, see Configure import frequency on page 48.

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Manage solution dependencies

Other Tanium solutions are required for Discover to function (required dependencies) or for specific Discover features to work (feature-specific dependencies).

Upgrade Discover

For more information about how to upgrade Discover, see Tanium Console User Guide: Managing Tanium solutions. For more information about how to verify the version, see Verify Discover version on page 0.

Verify Discover version

After you import or upgrade Discover , verify that the correct version is installed.

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

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Configuring Discover

About this task

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

Prepare endpoints

Manage solution configurations with Tanium Endpoint Configuration

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

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

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Important:

When you upgrade Discover, the change management feature enables you to perform a staged rollout of the endpoint tools associated with the new version of Discover. Discover 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 Discover might not be available on these endpoints until they receive the upgraded tools.

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

Note: For information about how to install Endpoint Configuration, see 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 Discover, see User role requirements. For more information about how to enable and use configuration approvals in Endpoint Configuration, see 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 Managing action locks.

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

Configure import frequency

About this task

(Optional) Configure the import frequency. This setting determines how often the results from running discovery methods are imported to the **Interfaces** pages.

From the Main menu, go to **Modules** > **Discover** > **Overview**. Click Settings and go to the **Global Settings** tab. Edit the **Import Frequency** setting.

Best Practice: Leave the **Import Frequency** setting at the default value (every 30 minutes), unless you are directed to change the value by Tanium Support.

Toggle IPv6 compatibility

About this task

By default, IPv6 compatibility is disabled in Discover. To find IPv6 interfaces in your environment, you must enable IPv6 compatibility.

Important: Consumer devices, particularly macOS devices, can randomize and cycle IPv6 MAC addresses frequently. As a result, you might see excess managed interface data when IPv6 compatibility is enabled.

Note: You must have a role with the **Discover Optional Feature write** permission to enable and disable IPv6 compatibility. Users assigned the Discover Administrator, Discover Operator, and Discover Optional Feature Administrator roles have this permission.

Enable IPv6 compatibility

About this task

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Enable IPv6 compatibility to find IPv6 interfaces in your environment.

1. From the Main menu, go to **Modules** > **Discover** > **Overview** and click Settings.
2. Navigate to the **Global Settings** tab.
3. Toggle **IPv6 Compatibility** to **Enabled**, and then click **Confirm**.
4. Create scan profiles to scan for IPv6 interfaces. For more information, see Running distributed scans on page 54 or Running satellite scans on page 69.

Result

Note: Interfaces can have both IPv4 and IPv6 addresses. Discover does not promote IPv6-only interfaces to Tanium Data Service.

After you enable IPv6 compatibility, Discover automatically purges IPv6 interfaces that match the following criteria:

- Interfaces hosted on cloud providers that have not been seen in the last 24 hours.
- Interfaces not hosted on cloud providers that have not been seen in the last 7 days.

Disable IPv6 compatibility

About this task

Disable IPv6 compatibility if you no longer want to find IPv6 interfaces in your environment.

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Note: Notes on disabling IPv6 compatibility:

- If you disable IPv6 compatibility, Discover disables all IPv6 profiles and no longer imports IPv6 managed interfaces. If you re-enable IPv6 compatibility, you must manually re-enable any IPv6 profiles.
- You cannot edit or create IPv6 profiles when IPv6 compatibility is disabled.
- The option to manually purge IPv6 data is available only when IPv6 compatibility is disabled. You can choose to purge IPv6 data when you disable IPv6 compatibility, or you can also manually purge IPv6 interfaces at a later time. For more information, see Purge IPv6 data on page 50.

1. From the Main menu, go to **Modules** > **Discover** > **Overview** and click Settings.
2. Navigate to the **Global Settings** tab.
3. Toggle **IPv6 Compatibility** to **Disabled**.
   The **Disabled IPv6 Compatibility** dialog appears.
4. (Optional) To purge existing IPv6 data from Discover, select **Purge all existing IPv6 interface**.
5. Click **Confirm**.

Purge IPv6 data

About this task

When IPv6 compatibility is disabled, you can purge IPv6 data from Discover.

Note: You must have a role with the **Discover Optional Feature write** permission to purge IPv6 data. Users assigned the Discover Administrator, Discover Operator, and Discover Optional Feature Administrator roles have this permission.

1. From the Main menu, go to **Modules** > **Discover** > **Overview** and click Settings.
2. Navigate to the **Global Settings** tab and ensure **IPv6 Compatibility** is set to **Disabled**.

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3. Click **Purge IPv6 Data** and then click **Confirm**.

Result

After you purge IPv6 data, the option to purge no longer appears on the **Settings** page.

Set up Discover users

About this task

You can use the following set of predefined user roles to set up Discover users. For more information about how to review specific permissions for each role, see User role requirements on page 35.

Important: On installation, Discover creates a Discover user to automatically manage the Discover service account. Do not edit or delete the Discover user.

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

Discover Administrator

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

- Configure Discover settings
- Create, edit, and delete profiles
- View managed and unmanaged interfaces; manually import interfaces; export interface data
- Create and apply labels to interfaces; remove labels from interfaces
- Define and import locations; apply corresponding location permissions to user groups
- Manipulate Discover data in Reporting

Discover Operator

Assign the **Discover Operator** role to users who manage most of the configuration and

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deployment of Discover functionality to endpoints, usually in Tanium Cloud environments. This role can perform the following tasks:

- Configure Discover settings
- Create, edit, and delete profiles
- View managed and unmanaged interfaces; manually import interfaces; export interface data
- Create and apply labels to interfaces; remove labels from interfaces
- Define and import locations; apply corresponding location permissions to user groups
- Manipulate Discover data in Reporting

Discover Optional Feature Administrator

Assign the **Discover Optional Feature Administrator** role to users who need to manage Discover settings but do not require full **Discover Administrator** or **Discover Operator** permissions.

Discover User

Assign the **Discover User** role to users who analyze and organize results of Discover scans. This role can perform the following tasks:

- View managed and unmanaged interfaces; manually import interfaces; export interface data
- Create and apply labels to interfaces; remove labels from interfaces (only if location permissions are not defined)

Discover Read Only User

Assign the **Discover Read Only User** role to users who analyze Discover scan results. This role can perform the following tasks:

- View managed and unmanaged interfaces
- View labels applied to interfaces

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Discover Endpoint Configuration Approver

Assign the **Discover Endpoint Configuration Approver** role to a user who approves or rejects Discover configuration items in Tanium Endpoint Configuration. This role can perform the following tasks:

- Approve, reject, or dismiss changes that target endpoints where Discover is installed
- View Discover profiles

> **Note:** Do not assign the **Discover Service Account** role to users. This role is for internal purposes only.

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Running distributed scans

About this task

Distributed scans are performed by endpoints that are running the Tanium Client and have Discover tools installed. After identifying unmanaged interfaces, you can apply Discover labels to them. These labels can be used as deployment targets in Tanium Client Management for installation of the Tanium Client, bringing the interfaces under management by the Tanium Server. For more information about how to deploy the Tanium Client, see Tanium Client Management User Guide: Deploying the Tanium Client using Client Management.

Profile configuration

There are four levels of distributed scanning. You can create multiple profiles that include passive and active discovery methods. Each profile is scoped by different network inclusions, exclusions, and schedules. With an active discovery method, you might choose to scope the discovery to run on a specific subnet a few times a day. Because passive discovery methods have less network impact, you might choose to scope the discovery to scan a broader part of the network every hour.

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Best Practice:

For distributed scanning, the best data is provided by a level 4 (Nmap scan with host discovery and OS fingerprinting) profile. This profile type provides data that includes open ports, attempts to identify the OS platform and OS Generation.

If Nmap is not allowed in your environment, the level 2 (ping) scan generates some OS Platform information.

Level 3 and level 1 scans provide the least information. Level 3 is a quick scan without port probing, but finds all IP addresses using active ARP probing. The level 1 scan is passive and looks at connections or ARP cache to determine what the endpoint knows about without any network probing.

For more information about the data provided by each profile type, see Reference: Data returned by profile type on page 133.

Level 1 (ARP/NDP cache and interface connections)

Note: Level 1 discovery scans support either IPv4 or IPv6 addresses. For IPv4, Discover uses Address Resolution Protocol (ARP) to scan for interfaces. For IPv6, Discover uses Neighbor Discovery Protocol (NDP) to scan for interfaces.

IPv4 discovery

Level 1 discovery for IPv4 addresses is a passive discovery method that combines ARP cache and interface connections discovery. No endpoints are scanned with level 1 discovery because the results are returned from the local ARP cache on each endpoint.

Discover reads the full local ARP cache and filters the results against the profile scan inclusions and exclusions. For IPv4, the results are bounded by the endpoint's local subnet, capped at the /22 range (1,024 IP addresses). For more information, see Scan range calculation on page 60.

The interface connections method sends actions to the endpoints to trigger the collection of all current IP connections that are on each managed endpoint. Then, the related MAC address is

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resolved by looking up the interfaces in the local ARP cache.

Value on Interfaces pages: arp, connected

IPv6 discovery

Level 1 discovery for IPv6 addresses is a passive discovery method that combines NDP cache and interface connections discovery. No endpoints are scanned with level 1 discovery because the results are returned from the local NDP cache on each endpoint.

On each endpoint, Discover filters the NDP cache for `ff00::/8` multicast addresses, adhering to any profile network inclusions and exclusions, and returns a maximum of 4096 results.

> **Note:** Discover does not support AIX endpoints for IPv6 distributed scans.

The interface connections method sends actions to the endpoints to trigger the collection of all current IP connections that are on each managed endpoint. Then, the related MAC address is resolved by looking up the interfaces in the local NDP cache.

Value on Interfaces pages: ndp, connected

Level 2 (ping)

> **Note:** Level 2 discovery scans support only IPv4 addresses.

The level 2 discovery method uses a ping discovery method to find unmanaged interfaces.

When level 2 discovery is initiated on a managed endpoint, the scan range is calculated based on its peers in the linear chain. For more information, see Scan range calculation on page 60.

After the range is calculated, the scanning package pings the targeted IP addresses with an Internet Control Message Protocol (ICMP) ping. Pings without a response take 3 seconds. Pings that return a response take much less time.

Isolated endpoints are not scanned by default. Isolated endpoints are endpoints that are on an

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isolated subnet, or appear to be on an isolated subnet because the endpoint has no peers. For more information about isolated subnets, see Tanium Client Management User Guide: Configure isolated subnets. To enable scanning of isolated endpoints, clear the **Isolated Subnets/Systems** option when you configure the discovery method.

When the results are imported, the Discover service:

- Resolves host names
- Checks if the interface is managed or unmanaged
- Resolves MAC address and Manufacturer
- Resolves OS Platform based on time to live (TTL) value in the ping response: Windows, Linux/Mac, or Solaris/AIX (Solaris endpoints do not detect OS Platform)

The ping discovery causes a small amount of network traffic over time. You might choose to run it on a smaller part of the network or at a longer schedule interval.

When you configure level 2 discovery on a sparsely populated network, set the schedule **Reissue every** setting to an hour or more to prevent scans from overlapping. If scans overlap, data may never be gathered for the upper end of the scan range.

Value on Interfaces pages: ping

Level 3 (Nmap scan with host discovery)



Note: Level 3 discovery scans support only IPv4 addresses.

The level 3 discovery method uses Network Mapper (Nmap) utility on each endpoint to find information about network interfaces.

When level 3 discovery is initiated on an endpoint, the scan range is calculated based on its peers in the linear chain. For more information, see Scan range calculation on page 60.

Nmap scan host discovery finds unmanaged interfaces by automatically distributing a scanning package to the Tanium managed endpoints. This package consists of drivers (Windows only), libraries, and executable files. Then, an Nmap scan runs with an ARP broadcast scan only. If an ARP

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reply to the target is found, the endpoint is listed as available. No operating system or open port information is returned about the interfaces. Because level 3 discovery performs an ARP broadcast, you might see a spike in network activity at the beginning of the scan.

Endpoint files: The Nmap discovery method uses Npcap, a device driver, on Windows endpoints. For more information about exclusions that might need to be enabled for Nmap, see Host and network security requirements on page 28.

> **Note:** Tanium installs Npcap on endpoints that do not have Npcap installed. By default, Tanium does not update the Npcap version on endpoints that already have Npcap installed. You can configure the scan profile so that Tanium updates Npcap on endpoints where Npcap was previously installed by Tanium. To force endpoints to use the latest Tanium version of Npcap for scans instead of any version of Npcap that might already be on the endpoints, deploy the **Discover - Install Npcap** package to the endpoints. When you deploy the **Discover - Install Npcap** package, Npcap is installed only on endpoints with valid scan profiles that require Npcap.

Tanium installs the following files:

- nmap.exe: Runs scanning operations from the *<Tanium Client>*\Tools\Discover\nmap directory.
- npcap-[version]-oem.exe: Run on the endpoint and add libraries and drivers that Nmap requires. These executable files run out of the *<Tanium Client>*\Downloads\Action_<action_id> directory. On Windows endpoints, Npcap is loaded on demand and is available to only admin users on the endpoint. Npcap files are installed in the C:\Program Files\Npcap directory. Tanium installs Npcap 1.88.

Nmap is not supported on AIX or Solaris. If Nmap level 3 scanning is configured for endpoints on these platforms, the endpoints perform level 2 scans instead. Level 2 scans are also performed if the Nmap scan has any problems running on the endpoint.

For more information about how to uninstall Npcap, see Remove Npcap from endpoints on page 128.

Value on Interfaces pages: nmap

Level 4 (Nmap scan with host discovery and OS fingerprinting)

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Note: Level 4 discovery scans support only IPv4 addresses.

Like the level 3 discovery method, level 4 also uses Nmap to find unmanaged interfaces. Level 4 discovery also includes OS fingerprinting.

By default, Discover scans 1000 commonly used TCP ports to calculate the **OS Generation** field. For more information, see Top 1,000 TCP and UDP ports (nmap default). In the profile settings, you can configure different ports to scan and can change the source port from which the scan originates. The value of the **OS Generation** field is an estimate from Nmap and is not displayed for managed interfaces.

Endpoint files: The Nmap discovery method uses Npcap, a device driver, on Windows endpoints. For more information about exclusions that might need to be enabled for Nmap, see Host and network security requirements on page 28.

Note: Tanium installs Npcap on endpoints that do not have Npcap installed. By default, Tanium does not update the Npcap version on endpoints that already have Npcap installed. You can configure the scan profile so that Tanium updates Npcap on endpoints where Npcap was previously installed by Tanium. To force endpoints to use the latest Tanium version of Npcap for scans instead of any version of Npcap that might already be on the endpoints, deploy the **Discover - Install Npcap** package to the endpoints. When you deploy the **Discover - Install Npcap** package, Npcap is installed only on endpoints with valid scan profiles that require Npcap.

Tanium installs the following files:

- nmap.exe: Runs scanning operations from the *<Tanium Client>*\Tools\Discover\nmap directory.
- npcap-[version]-oem.exe: Run on the endpoint and add libraries and drivers that Nmap requires. These executable files run out of the *<Tanium Client>*\Downloads\Action_<action_id> directory. On Windows endpoints, Npcap is loaded on demand and is available to only admin users on the endpoint. Npcap files are installed in the C:\Program Files\Npcap directory. Tanium installs Npcap 1.88.

Nmap is not supported on AIX or Solaris. If Nmap level 3 scanning is configured for endpoints on these platforms, the endpoints perform level 2 scans instead. Level 2 scans are also performed if the Nmap scan has any problems running on the endpoint.

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For more information about how to uninstall Npcap, see Remove Npcap from endpoints on page 128.

Value on Interfaces pages: nmap

Scan range calculation

About this task

Discover caps scan ranges at the /22 range (1024 IP addresses). When a scan runs, the Tanium Client calculates scan range automatically.

With level 2-4 discovery methods, scans typically run only in the gaps between the managed interfaces. Scanning only in the gaps eliminates many of the common issues with network scanners that generate significant network traffic and trigger alarms in intrusion prevention systems (IPS) and firewalls.

Most endpoints perform forward scans to avoid overlaps in scanning from other endpoints. Endpoints with no backward peers also scan backwards to avoid any gaps in scans. Review the following scenarios to fully understand how scan ranges are calculated.

Scenario: Endpoint has forward and backward peers

A managed endpoint at address 192.168.1.10 has a forward peer at address 192.168.1.20 and a backward peer at address 192.168.1.5.

A forward scan occurs from 192.168.1.11 to 192.168.1.19. Because the IP address has a backward peer, a backward scan is not performed.

Scenario: Endpoint has forward peer but no backward peer

A managed endpoint at address 192.168.1.10 has a forward peer at address 192.168.1.20, but no backward peer.

A forward scan occurs from 192.168.1.11 to 192.168.1.19. Because the endpoint has no backward peer, a backward scan from 192.168.1.1 to 192.168.1.9 is performed.

A scan occurs from 192.168.1.1 to 192.168.1.19 (excluding the origin endpoint: 192.168.1.10).

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Configure profile for distributed scan

About this task

Configure a profile for the distributed scan by defining which networks to scan, the discovery method, and a scan schedule.

Best Practice: Create profiles according to your deployment plan. For more information, see Develop a deployment plan on page 20. If you are using a by subnet deployment policy, test and continue to add subnets to the profile until you are comfortable using all subnets.

Before you begin

- Know the IP addresses that you want to scan, or add a network for those IP ranges. For more information, see Managing networks on page 78.
- (Optional) Create a locations file to map physical locations to discovered interfaces. Assign users to specific locations to limit access to interface data to specific user groups. You can configure locations at any time because the locations are evaluated every time a Discover scan completes. For more information, see Locations on page 89.

  Best Practice: For the most complete results from the scan, import locations before configuring a profile. You can update locations later as you find more information about your networks.

Create profile

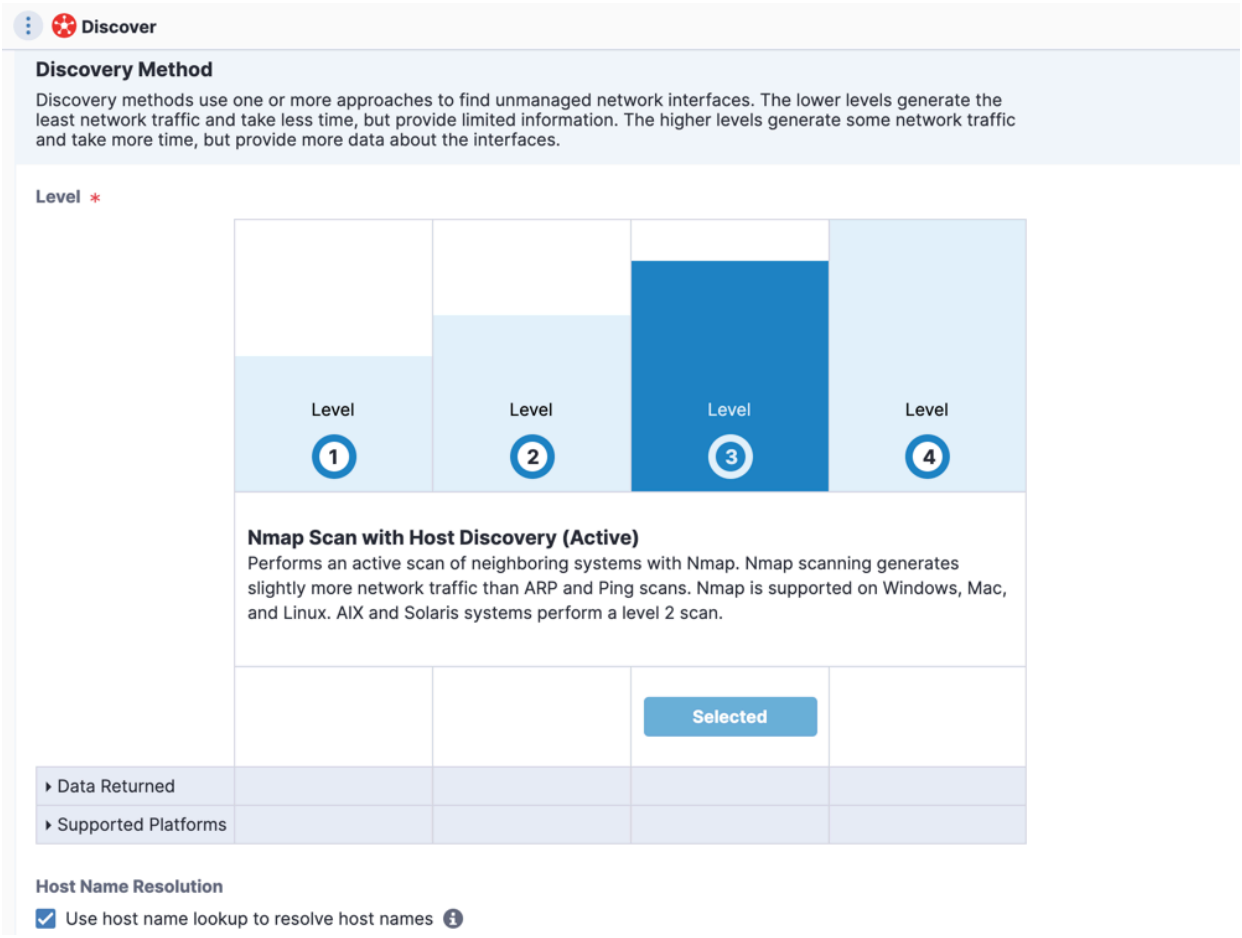
1. Add a profile. From the Discover menu, click **Profiles**, and then click **Create Profile**.
2. Give the profile a name and select the **Distributed** profile type.
3. If IPv6 compatibility is enabled, select a protocol version.
   - If you select **Internet Protocol version 4**, all types of discovery methods are available.
   - If you select **Internet Protocol version 6**, only the level 1 discovery method (NDP) is available.

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- If you specify any IP addresses in the **Scan Inclusions** and **Scan Exclusions** sections, the IP addresses must match the protocol version of the profile (IPv4 or IPv6).
- For more information about how to enable IPv6 compatibility, see Toggle IPv6 compatibility on page 48.

4. For IPv4 profiles, select a discovery method (level 1-4) and whether you want to include host name lookup.
   Host name resolution consumes some network resources, even with lower impact discovery methods.

   Figure 4. Discovery method settings



   Best Practice: To help target installation of the Tanium Client on unmanaged interfaces, configure a scan that returns operating system information about the endpoints. Level 4 Nmap discovery provides the best results, but Level 2 ping scans also provide some operating system information.

5. Select how Tanium manages the Npcap driver on Windows endpoints.
   - To use the existing Npcap version on the endpoint and not update to a newer

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version, select **Use existing Npcap version**. Tanium installs Npcap on the endpoint if it is not already installed. This is the default setting.

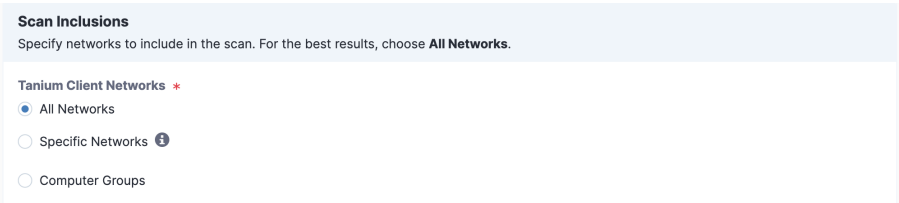
> **Note:** If you update to Discover 4.1.240 or later from an older version, be aware that the default Npcap management behavior changed to no longer automatically update Npcap. To have Tanium continue to update Npcap on endpoints, select the **Update Tanium version of Npcap** option.

Select this option if you plan to manually update Npcap versions.

- To use the Npcap version included with Discover, select **Update Tanium version of Npcap**.
    - Tanium updates Npcap if it is not on the endpoint or if Npcap was previously installed by Tanium. Tanium installs Npcap 1.88.
    - If Npcap was installed outside of Tanium, Tanium does not update Npcap.

> **Important:** Npcap updates might cause the endpoint to automatically reboot or to restart the network. If you want to manage when endpoints reboot, do not select the **Update Tanium version of Npcap** option.

6. If you selected discovery method level 4, specify the ports to scan.
7. Configure targeting. Targeting specifies the networks to include and exclude from the scan.
    a. **Scan Inclusions**: Specify networks that you want to scan.
    Typically, choose **All Networks** to include the broadest results. The **All Networks** option scans all networks that are accessible to the endpoints that are configured for the Discover action group. For the best results, configure the Discover action group to include all computers. For more information, see Import Discover with default settings on page 43.



To run scans on endpoints that are only in certain networks, select **Specific Networks**, then click +. With this selection, results outside the scope of the selected networks are not included in the final report.

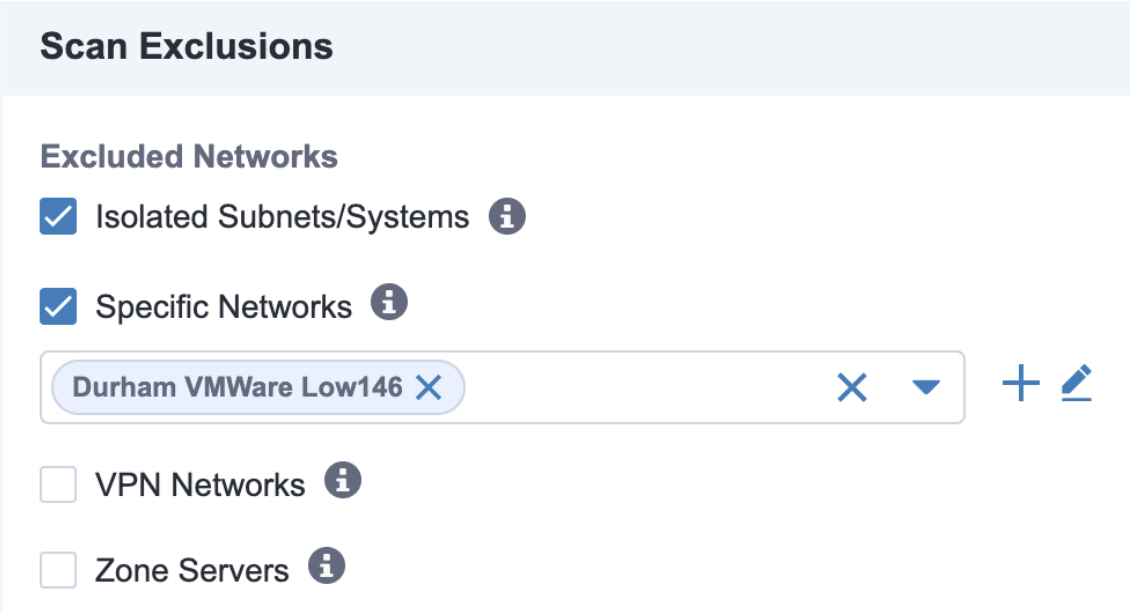
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> **Note:** Any IP addresses that you specify must match the protocol version of the profile (IPv4 or IPv6).

To run scans on endpoints that are only in a certain computer group, select **Computer Groups**, then select the groups. With this selection, results outside the scope of the selected groups do not perform the selected scan.

b. **Scan Exclusions**: Specify networks that you want to exclude from scans. Endpoints on these networks do not perform scans, and no results are returned from endpoints on these networks. Consider defining the following exclusions:

Figure 5. Scan Exclusions



- **Isolated Subnets/Systems**: Prevent isolated endpoints from performing scans. To enable these endpoints to perform scans, clear the checkbox.

  > **Note:** When you exclude isolated endpoints, Discover does not launch a scan until the endpoint's isolation status is stable for 5 minutes. Expect this delay after a Tanium Client restart or a network change. If the isolation status is still unstable, Discover retries the scan up to 10 times at 5-minute intervals (approximately 50 minutes) before abandoning the attempt for the current execution. The scan runs at the next scheduled launch.

- **Specific Networks**: List critical devices with fragile networking. These IPs are not contacted during the scan process. If any endpoints in this network are running the Tanium Client, these endpoints do not perform scans.

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- **VPN Networks:** List VPN subnets to avoid, including interfaces outside your corporate networks. If you do not define VPN networks as an exclusion, devices such as gaming systems and streaming devices from home networks might be discovered. If a managed endpoint is used on a public network, such as in a restaurant or airport, devices on those networks might be discovered if the VPN exclusion is not defined.

- **Zone Servers**: Define internet zone servers to exclude endpoints connecting from internet locations. List the internet-accessible host names or IP addresses of the zone servers to be excluded. As a safety mechanism, if an endpoint that connects through a zone server cannot resolve a host name in a zone server exclusion, the scan is not performed on that endpoint. Configure either all IP addresses or all host names for your zone server exclusions and zone server name definitions. Mixing IP addresses and host names in the configuration and exclusions can have unexpected results.



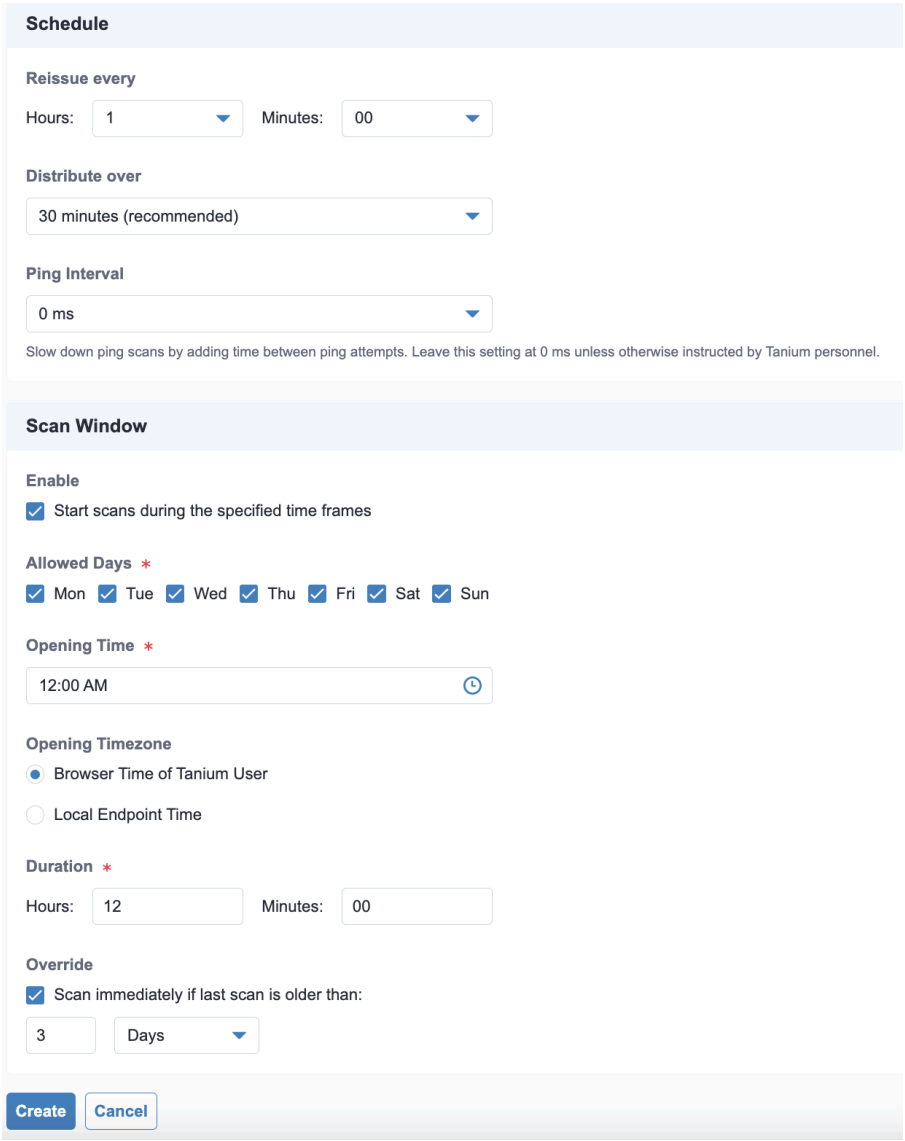
Best Practice: At a minimum, configure exclusions for VPN, zone servers, and critical endpoints with fragile network configurations.



Note: Any IP addresses that you specify must match the protocol version of the profile (IPv4 or IPv6).

8. Configure the scan schedule and scan window.
    a. **Schedule**: The schedule defines how often to run the scan. The minimum interval that you can set for **Reissue every** is 1 hour and 00 minutes. The **Ping Interval** lets you set the time between ping scan attempts. In most cases, you should not need to change the default of 0 milliseconds. This field is available for level 2 discovery (Windows and Linux endpoints only).
    b. **Scan Window** (Windows, Mac, and Linux endpoints only): Configure specific times to run the discovery process on your endpoints.

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If a scan is scheduled to run outside the scan window, nothing is run as a part of the scan. The time can either be the local endpoint time of the Tanium Client (distributed scans) or satellite (satellite scans), or the local time of the Tanium user that is configuring the profile. For example, you can choose **Local Endpoint Time** and create a scan configuration to scan your endpoints daily, but restrict the scans to run during non-business hours, such as from 6:30 PM to 11:30 PM. If some of your endpoints are offline during the scan window, you can choose the **Override** option to scan any endpoints that have a scan age older than a specified amount of time, in hours, days, or weeks. The **Duration** of the scan window must be greater than or equal to the **Reissue every** plus **Distribute over** settings in the schedule section. If the value is set to less than the sum of these values, some endpoints never scan.

9. Click **Create**.

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Discovery process

After you save a profile, the following actions occur:

1. Scheduled actions are created for the profile: **Discover Content - Execute Scan [profile_name]** and **Discover Content - Execute Scan for non-Windows [profile_name]** .
2. Scans run according to the defined schedule.
3. Scan results are imported into Discover at the configured **Import Frequency** interval. For more information, see Configure import frequency on page 48.

   > **Note:** If the previous Discover import is in progress, the next scheduled import is skipped. To see when the last import completed and when the next import runs, from the Main menu, go to **Modules** > **Discover** > **Overview** and review the **Recent & Upcoming Imports** chart in the **Activity** section.

If you have enabled Endpoint Configuration approval, configuration changes must be approved in Endpoint Configuration before they deploy to endpoints.

Scan results

About this task

After you discover interfaces, the **Interfaces** pages list the interfaces with the following icons:

- : Managed interfaces that have Tanium Client installed.
- : Unmanaged interfaces that do not have Tanium Client installed but might be a candidate for a Tanium Client installation.
- : Unmanageable interfaces are on devices that cannot run the Tanium Client. By default, unmanageable interfaces have an OS Platform that is not supported by the Tanium Client, defined by the **Unmanageable OS Platforms** predefined automatic label. Unmanageable interfaces are not included in the managed and unmanaged interface statistics.

The profile type and discovery method that were used to find the interface return varying columns on the **Interfaces** pages. For more information, see Reference: Data returned by profile type on page

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133.

Unmanaged interfaces discovered by a satellite scan include the ID of the satellite that discovered them. This ID is displayed in the **Satellite ID** column of the **Details** table on the **Interfaces** page.

Force import of scan results

About this task

Instead of waiting for the **Reissue every** time to pass, you can force an import of the most recent scan results.

1. From the Main menu, go to **Modules >** Discover **> Profiles**.
2. Click **Reimport Scan Results**. When you click this button:
   - Distributed scan results are collected. If these methods are not active on the endpoints, no results are collected.
   - Satellite profile scan results are collected from the satellite.

   > **Important:** Clicking **Reimport Scan Results** does not force the execution of distributed or satellite. The results for distributed scans are gathered if they are already distributed and active on the endpoints. For satellite scans, the results from the latest scan are collected from the associated satellite.

What to do next

- For more information about troubleshooting problems with scans, see Troubleshooting Discover on page 116.
- Manage your interfaces with labels. For more information, see Managing interfaces on page 82.
- Configure notifications for Discover events. For more information, see Create connection for event notifications on page 107.

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Running satellite scans

About this task

Use satellite scans to scan from an endpoint configured as a satellite to remote subnets.

Scan unmanaged subnets with a satellite scan

About this task

Use satellite scans to find interfaces in unmanaged subnets. The Network Mapper (Nmap) utility finds information about network interfaces by running host discovery and OS fingerprinting from the satellite on a target network. The satellite that returned the data about an interface is listed in the **Satellite ID** column in the grid on the **Interfaces** page.

The satellite scan is equivalent to a level 4 distributed scan.

By default, Discover scans 1000 commonly used TCP ports to calculate the **OS Generation** field. For more information, see Top 1,000 TCP and UDP ports (nmap default). In the profile settings, you can configure different ports to scan and can change the source port from which the scan originates. The value of the **OS Generation** field is an estimate from Nmap and is not displayed for managed interfaces.

The accuracy of OS fingerprinting and host name resolution depends on how remote the network is that you choose to scan. The more network hops away you search, the harder it is for Nmap to identify the operating system.

Satellite-based network scan results include MAC addresses when targeting subnets to which the satellite has direct connections. Scans of remote subnets do not have MAC addresses on the discovered interfaces, because the traffic must pass through a router. If a discovered interface does not have a MAC address, Discover uses the IP address as the unique identifier.

The Nmap utility is installed on the satellite after you create a satellite profile. If you remove all of the satellite profiles, the Nmap utility gets removed. The Nmap utility is listed as **satellite nmap** in the **Discovery Method** column on the **Interfaces** page.

Details about the five most recent satellite scans is available in **Last 5 Scans** section on the profile

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page. To view the profile page, go to **Modules** > **Discover** > **Profiles**, and click the **Name** of the profile associated with the satellite scan.

Subscans

Satellite scans that target more than 4,096 endpoints are divided into subscans. Dividing a large satellite scan into subscans speeds up scan results and reduces the impact of scan failures.

Configure profile for satellite scan

About this task

Configure a profile for the satellite scan by selecting the satellite to use, defining which networks to scan, and setting a scan schedule.

Best Practice: Create profiles according to your deployment plan. For more information, see Develop a deployment plan on page 20. For information about the data provided by each profile type, see Reference: Data returned by profile type on page 133.

Before you begin

- Know the IP addresses that you want to scan, or add a network for those IP ranges. Satellite scans can scan up to 65,536 IP addresses (or the equivalent of a /16 network). For more information, see Managing networks on page 78.

  Note: A satellite requires discover-cx endpoint tool version 1.8 or later to target up to 65,536 IP addresses in a scan. discover-cx version 1.7 and earlier can target up to 4,096 IP addresses in a scan (or the equivalent of a /20 network). For more information about upgrading the discover-cx version on a satellite, see Tanium Endpoint Configuration User Guide: Managing Tanium Client and endpoint tool upgrade rollouts.

- You must have configured satellites in Tanium Direct Connect. Satellite configuration is available in Direct Connect version 2.1 and later. You can only designate endpoints running Windows, macOS, or Linux as satellites.

  For more information about how to configure satellites, see Tanium Direct Connect User

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Guide: Managing satellites.

- (Optional) Create a locations file to map physical locations to discovered interfaces. Assign users to specific locations to limit access to interface data to specific user groups. You can configure locations at any time because the locations are evaluated every time a Discover scan completes. For more information, see Locations on page 89.

  Best Practice: For the most complete results from the scan, import locations before configuring a profile. You can update locations later as you find more information about your networks.

1. Add a profile. From the Discover menu, click **Profiles**, and then click **Create Profile**.
2. Give the profile a name and select the **Satellite** profile type.
3. Select how Tanium manages the Npcap driver on Windows endpoints.

   - To use the existing Npcap version on the endpoint and not update to a newer version, select **Use existing Npcap version**. Tanium installs Npcap on the endpoint if it is not already installed. This is the default setting.

     Note: If you update to Discover 4.1.240 or later from an older version, be aware that the default Npcap management behavior changed to no longer automatically update Npcap. To have Tanium continue to update Npcap on endpoints, select the **Update Tanium version of Npcap** option.

     Select this option if you plan to manually update Npcap versions.

   - To use the Npcap version included with Discover, select **Update Tanium version of Npcap**.

     - Tanium updates Npcap if it is not on the endpoint or if Npcap was previously installed by Tanium. Tanium installs Npcap 1.88.
     - If Npcap was installed outside of Tanium, Tanium does not update Npcap.

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> **Important:** Npcap updates might cause the endpoint to automatically reboot or to restart the network. If you want to manage when endpoints reboot, do not select the **Update Tanium version of Npcap** option.

4. Specify the ports to scan.

5. Configure scan inclusions and exclusions to specify the networks that are scanned by the satellite.

    a. **Scan Inclusions**: Specify networks that you want included in the scan. Select a network from the **Included Networks** list or click + to add a network to scan. The satellite scans only the selected network.

    b. **Scan Exclusions**: To exclude a portion of the **Included Networks** from the scan, select **Specific Networks** and select a network from the list, or click + to add a subnet or IP address to exclude from the scan. The IPs you exclude are not contacted during the scan process. For example, if you specify 192.168.0.0/20 in **Included Networks**, you might specify to exclude 192.168.1.0/24 and 192.168.0.1.

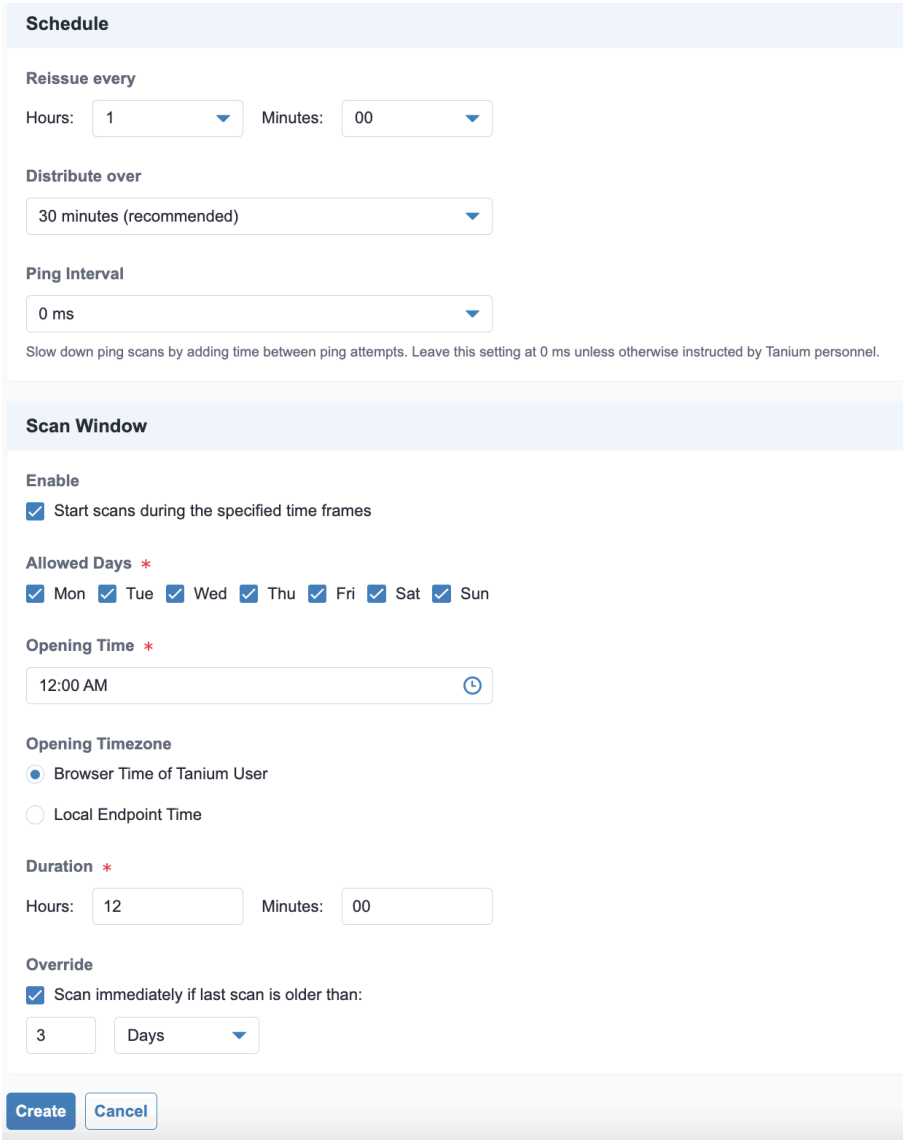
    After you enter inclusions and exclusions, the **Number of IP Addresses** section appears below **Scan Exclusions**. This section shows the total number of endpoints that the scan targets.

6. Configure the scan schedule and scan window.

    a. **Schedule**: The schedule defines how often to run the scan. The minimum interval that you can set for **Reissue every** is 1 hour and 00 minutes.

    b. **Scan Window** (Windows, Mac, and Linux endpoints only): Configure specific times to run the discovery process on your endpoints.

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If a scan is scheduled to run outside the scan window, nothing is run as a part of the scan. The time can either be the local endpoint time of the Tanium Client (distributed scans) or satellite (satellite scans), or the local time of the Tanium user that is configuring the profile. For example, you can choose **Local Endpoint Time** and create a scan configuration to scan your endpoints daily, but restrict the scans to run during non-business hours, such as from 6:30 PM to 11:30 PM. If some of your endpoints are offline during the scan window, you can choose the **Override** option to scan any endpoints that have a scan age older than a specified amount of time, in hours, days, or weeks. The **Duration** of the scan window must be greater than or equal to the **Reissue every** plus **Distribute over** settings in the schedule section. If the value is set to less than the sum of these values, some endpoints never scan.

7. Click **Create**.

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Discovery process

The discovery process for each satellite scan is defined by its profile settings, including the network inclusions and exclusions, discovery methods, and scan schedule.

1. The scan runs on the targeted network at the scheduled interval. On the first run, the Nmap utility is installed on the satellite.
2. When the scan completes, scan results are sent to Discover.
3. Scan results are imported into Discover at the configured **Import Frequency** interval. For more information, see Configure import frequency on page 48.

   > **Note:** If the previous Discover import is in progress, the next scheduled import is skipped. To see when the last import completed and when the next import runs, from the Main menu, go to **Modules** > **Discover** > **Overview** and review the **Recent & Upcoming Imports** chart in the **Activity** section.

To check the status of a satellite scan, from the Main menu, go to **Modules** > **Discover** > **Profiles**. Hover over the icon in the **Status** column to view the status message, or click ▶ to expand the profile and view more detailed status and troubleshooting information.

Satellite scan results

Scan results

About this task

After you discover interfaces, the **Interfaces** pages list the interfaces with the following icons:

- : Managed interfaces that have Tanium Client installed.
- : Unmanaged interfaces that do not have Tanium Client installed but might be a candidate for a Tanium Client installation.
- : Unmanageable interfaces are on devices that cannot run the Tanium Client. By default, unmanageable interfaces have an OS Platform that is not supported by the Tanium Client, defined by the **Unmanageable OS Platforms** predefined automatic label. Unmanageable

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interfaces are not included in the managed and unmanaged interface statistics.

The profile type and discovery method that were used to find the interface return varying columns on the **Interfaces** pages. For more information, see Reference: Data returned by profile type on page 133.

Unmanaged interfaces discovered by a satellite scan include the ID of the satellite that discovered them. This ID is displayed in the **Satellite ID** column of the **Details** table on the **Interfaces** page.

Force import of scan results

About this task

Instead of waiting for the **Reissue every** time to pass, you can force an import of the most recent scan results.

1. From the Main menu, go to **Modules >** Discover **> Profiles**.
2. Click **Reimport Scan Results**. When you click this button:
   - Distributed scan results are collected. If these methods are not active on the endpoints, no results are collected.
   - Satellite profile scan results are collected from the satellite.

   Important: Clicking **Reimport Scan Results** does not force the execution of distributed or satellite. The results for distributed scans are gathered if they are already distributed and active on the endpoints. For satellite scans, the results from the latest scan are collected from the associated satellite.

What to do next

- For more information about troubleshooting problems with scans, see Troubleshooting Discover on page 116.
- Manage your interfaces with labels. For more information, see Managing interfaces on page 82.
- Configure notifications for Discover events. For more information, see Create connection for event notifications on page 107.

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Managing Discover profiles

About this task

A profile is a configuration object that defines how Discover finds interfaces in your network. You create a profile when you configure a scan. You might need to update its configuration to address changes in your environment or to correct errors that prevent it from running scans. Maintain your profiles to ensure that your scans are accurate and efficient so you can quickly find unmanaged interfaces on your network.

For more information about creating profiles and configuring scans, see the following pages:

- Running distributed scans on page 54
- Running satellite scans on page 69

View profiles

About this task

You can view the status and other details of profiles. For example, you might review profiles to ensure that they have been deployed.

1. From the Main menu, go to **Modules** > **Discover** > **Profiles**.
2. (Optional) Filter the grid with the following methods. The grid lists only the rows that match all filters that you specify:
    - Enter an alphanumeric string in **Filter items** to match text in any column.
    - Expand the **Filters** section and enter text in a filter field to match text to the corresponding grid column.
3. View information about the profiles in the profiles grid, including the profile status. For profiles that are not deployed, hover over its status icon to view a message that explains the reason for its status:

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Discover profile status

Icon	Status	Description
	**Deployed**	The profile configuration is valid and runs scans.
	Needs Deployment	The profile configuration is valid but not yet deployed.
	**Error**	The profile configuration is not valid and does not run scans. Edit the profile to correct any errors.
	**Disabled**	The profile is disabled and is not running scans, and actions associated with the profile are removed from the scheduled actions list. For more information, see Disable a profile on page 77 .

4. Click the name of a profile to view its configuration details. For more information about the configuration details for each profile type, see Running distributed scans on page 54 and Running satellite scans on page 69.

Disable a profile

About this task

Disable a profile if you want to temporarily stop the profile from running scans. When you disable a profile, its associated actions are removed from the scheduled actions list.

You might want to disable a profile when you have planned network maintenance or to preserve a scan when you test a new configuration. For example, you might want to consolidate multiple smaller scans into a single, larger scan. You can disable the smaller scans when you verify the consolidated configuration.

1. From the Main menu, go to **Modules** > **Discover** > **Profiles**.
2. Select the checkbox on one or more profile rows, then click **Disable** > **Confirm**.

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Managing networks

About this task

A network is a reusable configuration object that profiles use to determine which endpoints to scan for unmanaged interfaces. If the profile scan targets specific networks, you can select network configurations for the scan inclusions and exclusions. This lets you logically group portions of your network for scanning scenarios, such as excluding devices on VPN networks.

You can set the following properties on a network:

- **Name**: A unique name for the network.
- **Protocol**: IPv4 or IPv6.
- **Type**: Standard network, VPN network, or zone server.
- **Network Definition**: List of IP addresses that you want to manage with the network.

View networks

1. From the Main menu, go to **Modules** > **Discover** > **Networks**.
2. The networks grid includes the following columns.

Networks grid columns

Column	Description
Name	Name of the network. Profiles named **<profile-name> - Copy** were created to preserve a profile that was affected when editing a network. For more information, see Edit a network on page 80.
Protocol	Internet Protocol (IP) version of the network, either **IPv4** or **IPv6**.
Network Size	Total number of IP addresses targeted by the network. Only IPv4 network addresses are included in this value.
Used as Inclusion	Number of profiles that use this network as a scan inclusion.

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Column	Description
Used as Exclusion	Number of profiles that use this network as a scan exclusion.
Actions	Provides the following options for managing the networks: • Edit the network configuration. • Delete the network configuration.

3. (Optional) Filter the grid to find a network. The grid shows only the networks that match all filters that you specify:
    a. Enter an alphanumeric string in the **Filter items** field to match text in any column.
    b. Expand the **Filters** section to filter by **Name**, **Profile**, **Network Definition**, and **Protocol**.

Result

When you find the row of the network that you want to view, you can click **Network Details** to open a side panel with a summary of the network. The summary includes the network definition and profiles that use the network as a scan inclusion or scan exclusion.

Create a network

About this task

Create a network when there is a group of endpoints that you need to target with a scan profile. For example, you might need to add a network when you open a new office location.

You can create a network while you create a distributed on page 54 or satellite on page 69 scan profile, or you can create a network on the **Networks** page.

1. From the Main menu, go to **Modules** > **Discover** > **Networks**.
2. Click **Create Network**.
3. Give the network a unique **Name**.
4. Select a **Protocol**.
5. Select the **Type** of network. Options include **Standard Network**, **Zone Servers**, and **VPN Network**. Scan profiles can exclude VPN networks to prevent off-network data from being

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scanned.

6. In **Network Definition**, enter a comma-separated list of IP ranges or CIDR blocks. You can enter a combination of both.
7. Review the **Network Preview** section to confirm the estimated network size of the targeted IPv4 network addresses. Click **Save**.

Edit a network

About this task

As your environment evolves, you might need to edit a network configuration to update its name or IP addresses.

Changes to a network configuration might affect whether its associated profiles can be deployed. As a best practice, review these profiles before you edit a network configuration.

1. From the Main menu, go to **Modules** > **Discover** > **Networks**.
2. Find the network that you want to edit in the grid and click **Edit Network**.
3. Edit the **Name** and **Network Definition** fields.
4. Click **Preview Changes.**
   If your edits do not affect an associated profile, you receive a confirmation message. Click **Save**.

   If your edits make the network incompatible with an associated scan profile, you receive a warning message that lists the affected profiles and their initial and pending network size. Select from the following options and click **Save**:

   - **Attach the affected scan profiles to a new network that is a copy of the initial network definition**: Creates a copy of the initial network named **<initial-network> - Copy** and attaches that copy to associated scan profiles to preserve their status. Changes to the initial network are saved, but it is no longer associated with any profiles that it would have invalidated.
   - **Save edits and change affected profiles to invalid**: Saves your changes and makes affected associated scan profiles not valid. You must manually update the profiles.

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Delete a network

About this task

Delete a network if you no longer need to use it in a profile scan.

1. From the Main menu, go to **Modules** > **Discover** > **Networks**.
2. Find the network that you want to delete in the grid and click **Delete Network** .
3. The **Confirm Delete Network** window opens and lists any affected profiles.
   To delete the network, click **Remove Network from Profiles**.

   If deleting the network makes a scan profile not valid, you receive a warning message that lists the affected profiles and their initial and pending network size. Select from the following options:

   - **Keep the network. Remove it only from profiles that are valid without it**: Removes the network only if the profile remains valid without it. Otherwise, the network is not removed. Click **Remove Network from Profiles** to proceed.
   - **Delete network and invalidate affected profiles**: Deletes the network, which makes the affected profiles no longer valid. You must manually update these profiles, or they cannot be deployed. Click **Confirm and Invalidate <number> profile** to proceed.

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Managing interfaces

About this task

Organize interfaces by applying locations or labels. Locations are a user-defined hierarchy of networks and physical locations. Labels are attributes that are added to the interface based on a set of conditions, and you can set actions to ignore, purge, mark unmanageable, or send notifications on the interfaces that match the conditions of the label.

View interface data

About this task

On the **Interfaces** pages, you can view interfaces by several different categories. You can customize and filter these results, and export the results to a CSV file.



Best Practice: In addition to the **Summary** page, use the **Managed**, **Unmanaged**, **Unmanageable**, and **Ignored** pages.

View charts

About this task

You can view bar charts that represent the device types, locations, and labels of interfaces.

1. From the Main menu, go to **Modules** > **Discover** > **Interfaces**.
   The **Interfaces** page opens and contains a **Top 10 Results** section and a **Details** section. The **Top 10 Results** section is collapsed by default.

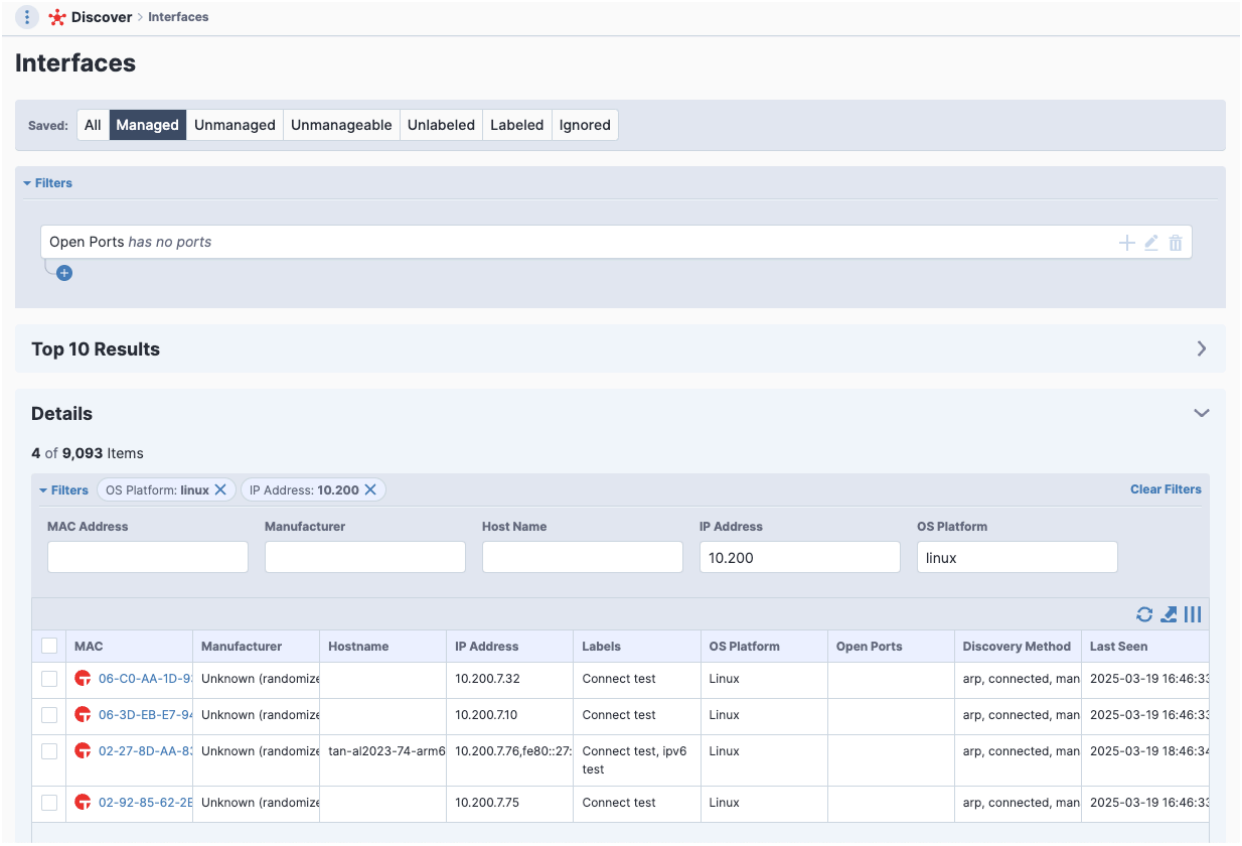
2. Add filters at the top of the page to apply to data in both the **Top 10 Results** section and the **Details** section.
   For more information, see Filter interfaces on page 87.

3. Expand the **Top 10 Results** section to view a graph of the top ten results by **Manufacturers**, **Locations**, or **Labels**.

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4. The **Details** section contains a table with interface results.
   You can click Details to open a side panel with a summary of the interface. The summary includes information about the interface hardware, discovery details, applied labels, and associated profiles. In addition, you can add a label, and you can mark an unmanaged interface as manageable or unmanageable.

Figure 6. Filter on the Interfaces page



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Note:

The **Manufacturer** column refers to the manufacturer of the network interface, not the endpoint. This value is derived from the organizationally unique identifier (OUI) in the first three octets of the MAC address assigned to the network interface.

- For a universally administered address (UAA) that was assigned by the device manufacturer, it displays the manufacturer's name.
- For a locally administered address (LAA) not assigned by the device manufacturer, it displays **Unknown (randomized MAC address)** or **Is Locally Administered MAC**. For example, an operating system randomly generates an LAA MAC address to enhance privacy.

Determine data source that found an interface

The value in the **Discovery Method** column in the **Details** table on the **Interfaces** page corresponds to the data source that discovered the interface.

Possible values for the Discovery Method column

Discovery Method	Data Source
arp	Distributed level 1 scan
connected	Distributed level 1 scan
ping	Distributed level 2 scan
nmap	Distributed level 3 or level 4 scan
aws api	Centralized Amazon EC2 environment scan **Note:** aws api is a legacy discovery method that is no longer available. This method appears in the **Discovery Method** column for interfaces that were discovered with this legacy method.
centralized nmap	Centralized nmap scan

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Discovery Method	Data Source
	Note: centralized nmap is a legacy discovery method that is no longer available. This method appears in the **Discovery Method** column for interfaces that were discovered with this legacy method.
satellite nmap	Satellite scan
managed	• If IPv6 compatibility is enabled, data comes from the **Discover - Managed Interfaces Include IPv6** saved question. • If IPv6 compatibility is disabled, data comes from the **Discover - Managed Interfaces** saved question.

Add columns to data grid

About this task

From any of the data grids on the **Interfaces** pages, you can customize the columns in the data grid. Click Customize Columns. Then, sort the results on that column, add columns to the data grid, and filter the results. For more information, see Apply table filters on page 88.

Export data

To export the current data grid of interfaces to a CSV file, click Export Data. The export includes the data that currently appears in the data grid. The CSV file does not include ignored interfaces unless you apply the **Ignored** saved filter before exporting.

The **Unmanageable** column in the CSV file indicates if the endpoint can be managed by the Tanium Client. The following table explains the numbers in the **Unmanageable** column.

Possible values for the Unmanageable column

Number	Label
0	Managed or Manageable (automatic)
1	Unmanageable (automatic)

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Number	Label
2	Manually Marked Manageable
3	Manually Marked Unmanageable

Mark interfaces as manageable or unmanageable

About this task

You can automatically or manually mark interfaces as manageable or unmanageable. A manually applied label overrides an automatically applied label. For example, if an interface was automatically marked as unmanageable, you can override that label by manually marking the interface as manageable.

- You can use the **Mark Unmanageable** label activity to automatically mark interfaces as unmanageable with custom criteria. For more information, see Automatically label interfaces on page 97.
- You can manually mark an interface as manageable.

1. From the Main menu, go to **Modules** > **Discover** > **Interfaces**.
2. At the top of the page, select **Unmanageable**. By default, the **Unmanageable OS Platforms** predefined automatic label defines which interfaces are marked as unmanageable and shows on the **Unmanageable** page.
3. Select an interface from the **Details** table.
4. Click **Mark Manageable** to apply the **Manually Marked Manageable** label.

- You can manually mark an interface as unmanageable.

1. From the Main menu, go to **Modules** > **Discover** > **Interfaces**.
2. At the top of the page, select **Unmanaged**.
3. Select an interface from the **Details** table.
4. Click **Mark Unmanageable** to apply the **Manually Marked Unmanageable** label.

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Filter interfaces

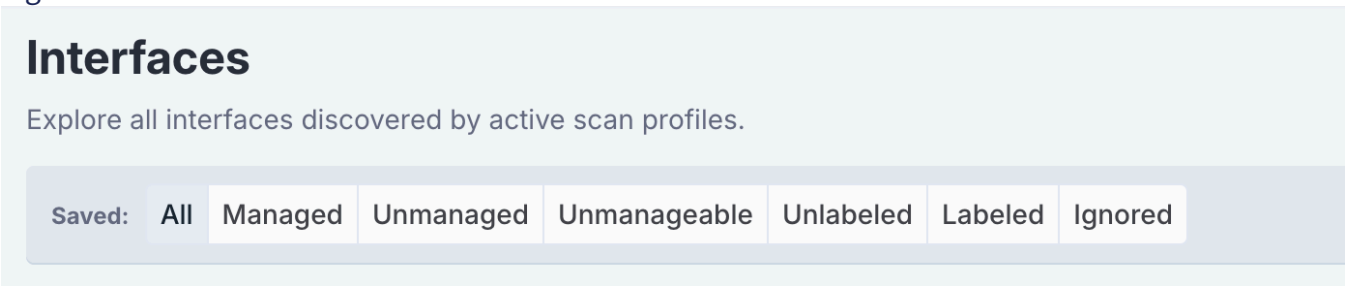
You can apply saved filters, advanced filters, and table filters to Discover interfaces.

Important: Ignored interfaces appear only when you apply the **Ignored** saved filter and do not appear in other saved filter results, including **All**. When you apply the **Manually Ignored** advanced filter, ignored interfaces appear only if you also apply the **Ignored** saved filter. When you apply the **All** saved filter, the total item count in the **Details** section might be higher than the number of interfaces listed because the table count includes ignored interfaces. For more information, see Ignore interfaces on page 88.

APPLY SAVED FILTERS

Click a saved filter option to filter data by interface type. Saved filters apply to both the **Top 10 Results** section and the **Details** table.

Figure 7. Saved filters for Discover interfaces



APPLY ADVANCED FILTERS

About this task

To see advanced filters, expand **Filters**. Use advanced filters to filter interfaces by attributes such as IP address, OS platform, and discovery method:

1. To add an individual filter, click **Add Row**. To add a group of filters, click **Add Group**.
2. Select an attribute from the **Select Attribute** list.
3. Select an operator from the **Select Operator** list. The available operators depend on the attribute that you select.
4. Enter or select a filter value. The available values depend on the attribute that you select.

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> **Important:** The values for the **equal to** and **not equal to** operators are case-sensitive.

5. To switch between Boolean operators, select `OR` or `AND`.
6. To apply a filter, click Apply ✓ on the filter row. To remove a filter before you apply the filter, click Close ✕.

Result

You can modify advanced filters after you apply them:

- To edit a filter, click Edit ✎. Update the attribute, operator, or value. Then click Apply ✓ to save your changes.
- To reorder a filter, drag the filter by the handle ⠿.
- To remove a filter, click Delete 🗑.
- To remove a group and all filters in the group, click Delete Group 🗑.

> **Tip:** If you add a range of addresses with the **IP Address** filter, you can enter the range in CIDR notation or as starting and ending addresses separated by a hyphen (-). If you enter starting and ending addresses, both addresses must use the same IP version (IPv4 or IPv6) and you must order the addresses from low to high. For example, `fe80::-fe80:ffff:ffff:ffff:ffff:ffff:ffff:ffff` is a valid range.

Advanced filter options are similar to the filter options available in the Tanium Interact **Question Builder**. For more information, see Tanium Console User Guide: Issue a question through the Question Builder.

APPLY TABLE FILTERS

You can filter the **Details** table by MAC address, manufacturer, host name, IP address, and OS platform. Table filters apply only to the **Details** table and do not filter the **Top 10 Results** charts. Filters that you enter appear at the top of the table. To remove individual filters, click Close ✕. To remove all table filters, click **Clear Filters**.

Ignore interfaces

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About this task

When you ignore an interface, the interface is removed from the list of interfaces and is added to the list on the **Interfaces** > **Ignored** page. The **Top 10 Results** charts and the **Details** table do not include ignored interfaces unless you apply the **Ignored** saved filter.

- To ignore interfaces, select interfaces and click **Ignore**, or create an automatic label to ignore interfaces. For more information about how to create automatic labels, see Automatically label interfaces on page 97.
- To start tracking an interface again, update the interface on the **Interfaces** > **Ignored** page.

If you ignore an interface with an automatic label, you cannot override the ignore with a manual setting on the interface. If you have manually ignored an interface, locate the interface under **Ignored** in the Discover menu and click **Unignore**.

Locations

Important: Locations does not support IPv6.

You can group discovered interfaces by mapping subnets to geographic or physical locations. After you map the network address and network address translation (NAT) address (CIDR, IP, or IP range) to your own hierarchy of locations, you can see information about how many devices are at a location on the **Interfaces** page. You can also assign access to network interface information to Tanium user groups.

Best Practice: To develop the location hierarchy, work with your network team. Typically, the network team has location information in an IP Address Management (IPAM) database.

Important: For location permissions to work with personas, user groups that are assigned to a location must be added to the default persona for a user, not to an alternative persona. For more information about personas and user groups, see Tanium Console User Guide: Managing personas and Tanium Console User Guide: Managing user groups.

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Create location spreadsheet

About this task

Import locations by creating a comma-separated values (CSV) file. This file must be UTF-8 encoded.

> **Note:** Discover does not read location information from custom tags applied to endpoints. You must import the location values into Discover.

Discover provides formatting guidance and a CSV file template. From the Main menu, go to **Modules > Discover > Locations > Import Locations**. To view an example of a correctly formatted CSV file, expand **Guidance for Formatting CSV Files**. To download the `LocationsTemplate.csv` template, click **Download CSV Template**.

CSV HEADER

The first row of the CSV file must contain at least three headers: Network, NAT, and at least one location column. You can have multiple headers for location to create a hierarchy of location information. The naming of the headers does not need to follow a certain pattern, but the first two columns must contain Network and NAT values.

CSV VALUES

CSV values can contain alphanumerics, white space, parentheses (`()`), number signs (`#`), or hyphens (`-`). The columns have the following requirements:

- `Network` column: Values in the network column can contain a mix of CIDR and IP ranges.
- `NAT` column: Values in the NAT column can contain a mix of CIDR and IP ranges. This column must exist in the CSV file, but the values can be left blank by using `""` as the value.
- `Locations` columns: Headers and values for the locations are user-defined and generally go from largest geographical location (country, region) to smallest (city, office). Use a maximum of five columns for location (for example: Country, State, City, Building, Floor).

Each row maps one Network value and one NAT value to a location. To support disjointed subnets,

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add a separate row for each range and repeat the location values, for example, 10.10.10.0/24 and 10.10.100.0/24.

You cannot end a row at a location that is a parent location in another row. Rows can end at different locations in the hierarchy. For more information, see Problem: Error with locations CSV file on page 125.

You can view the IP addresses and NAT IP addresses of managed endpoints on the **Client Status** page. From the Main menu, go to **Administration** > **Configuration** > **Client Status**. Review the **Network Location (from Client)** column for Tanium Client IP addresses and the **Network Location (from Server)** column for NAT IP addresses.

CSV EXAMPLE

```
"Network","NAT","Country","State","Site","Building","Floor"
"10.0.0.0/24","","United States","New York","NYC","300 Madison","33"
"10.1.5.100-10.1.5.250","","United States","New York","NYC","300 Madison","30"
"10.2.1.0/24","10.2.2.200-10.2.2.205","United States","North Carolina","RTP","Pinnacle
3005","5"
```

Import locations

About this task

Upload the CSV file that you created with the defined location values.

CAUTION: Each time you upload a CSV file that contains locations, any existing locations in Discover are removed and replaced with the hierarchy in the new file.

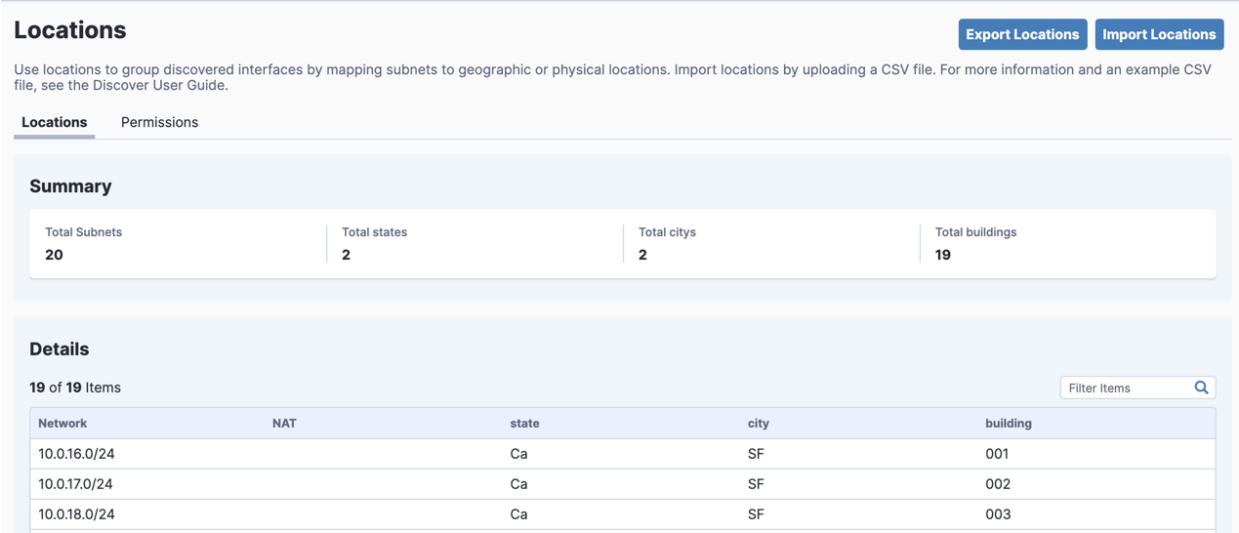
1. From the Main menu, go to **Modules** > **Discover** > **Locations**.
2. Click **Import Locations** and upload the CSV file you created. The location values are evaluated and applied to the interfaces list.

   Tip: Make sure the CSV file matches the required formatting that appears on the **Import Locations** dialog. Additionally, any values in the CSV file that contain whitespace characters must be enclosed in double quotes ("). For example: `"123 Main St"`.
3. A list of locations is displayed on the **Locations** tab. You can search the locations as needed.

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To export a filtered CSV file based on the search results, click **Export Locations**.

Figure 8. Locations page



Assign location permissions

About this task

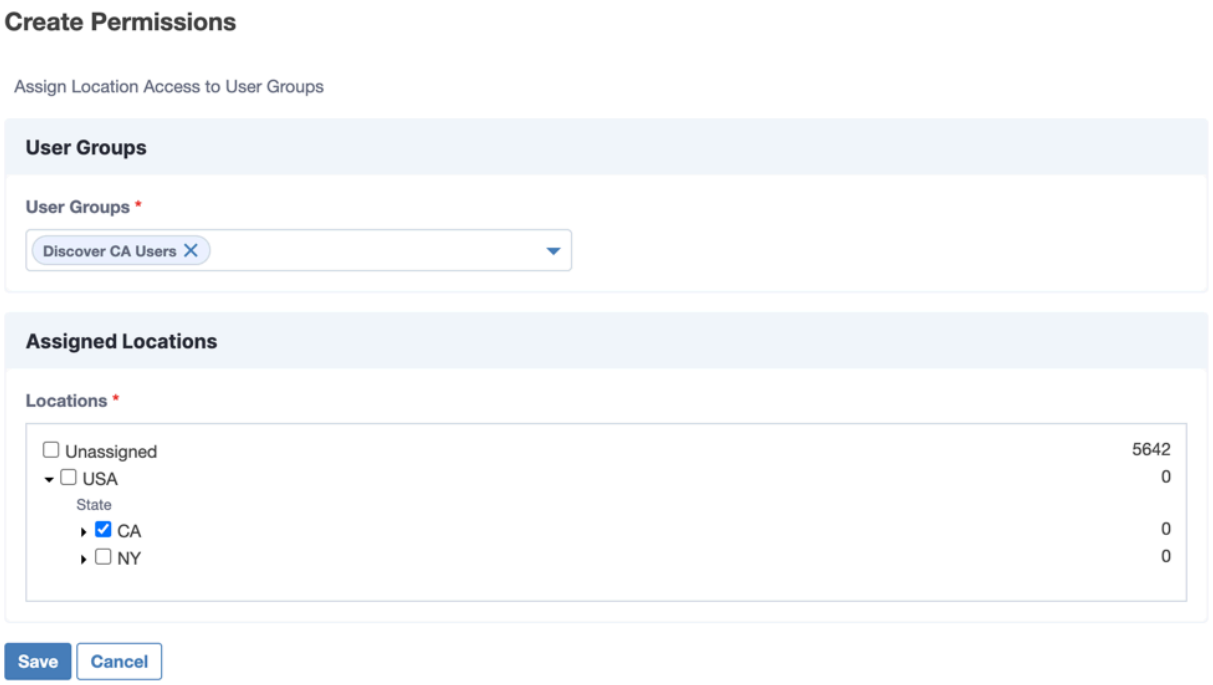
You can assign user group access to data in Discover based on location. When a user group is granted permission to a location, the users in that group can see only interfaces that are in the specified locations.

CAUTION: Before any locations are assigned permissions, all users can see all locations. After any permissions are assigned for locations, a user must be assigned location permissions to see interfaces. Tanium Administrator, Discover Administrator, and Discover Operator users can see all interfaces. If location permissions are defined, users with Discover User role can no longer create labels.

1. Create a user group that has access to the Discover module. For more information, see Tanium Console User Guide: Managing user groups.
2. From the Main menu, go to **Modules** > **Discover** > **Locations**, open the **Permissions** tab, and then click **Create Permission**.
3. Select user groups and associated locations. If a location has child locations, all the children are selected.

   Figure 9. Create Permissions page

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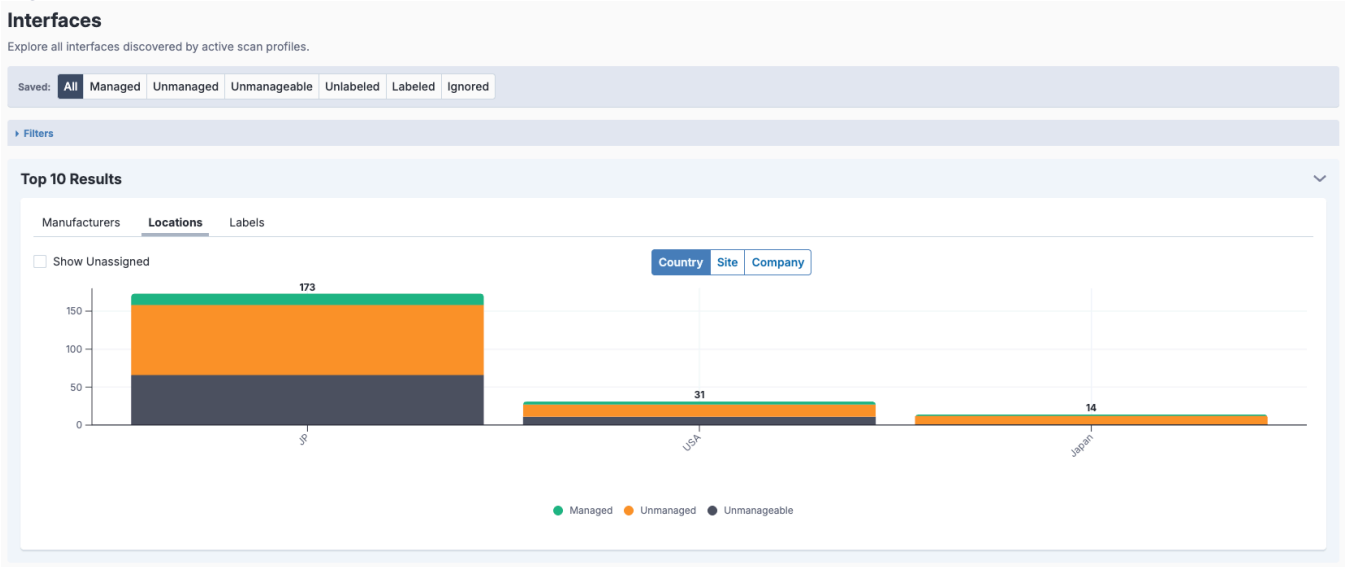


Click **Save**.

Location results

Locations are evaluated and applied to interfaces during the import process of a discovery scan. You can filter by location in the **Interfaces** > **Locations** chart.

Figure 10. Example Locations chart



The chart shows all interfaces regardless of assigned permissions, but the interfaces in the grid that follows the chart show only what is permitted for the user based on their assigned permissions.

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Labels

About this task

Labels include descriptive information or metadata that you can use to identify and group interfaces. For example, labels let you group interfaces by attributes like device type, operating system, or business unit, making it easier to target specific interfaces for business processes and initiatives. You can also use labels to filter out interfaces that you do not want to manage to help maintain a clean and accurate interface inventory. For example, you can apply a label to ignore an interface to exclude it from views and lists, or you can purge it to remove it from Discover entirely. In addition, you can label interfaces that cannot run the Tanium Client as unmanageable, such as printers, IP phones, routers, and switches.

Types of labels

Tanium provides built-in labels and the Discovery Label Gallery so you can quickly get started applying labels to interfaces. These labels address many common use cases, but you can also create user-defined labels if you have custom requirements.

BUILT-IN LABELS

Discover provides the following built-in labels:

- Lost Interface: An interface that was not managed within the last 24 hours and was discovered in the last four hours
- New Managed Interface: A new interface in your environment that has the Tanium Client installed
- New Unmanaged Interface: A new interface in your environment that does not have the Tanium Client installed
- Promote Unmanaged Interface: Promotes the interface to Tanium™ Data Service (TDS) for use in other modules except in Tanium Reporting
- Purge Stale Interface: Purges any interface that has not been detected in seven days
- Unmanageable OS Platforms: An interface on a device that cannot run the Tanium Client, such as a router or printer

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Discover uses these built-in labels to export events for Discover notifications through Tanium Direct Connect. If you delete any of these labels, Discover recreates them with their default definitions. For more information about sending event notifications, see Create connection for event notifications.

DISCOVER LABEL GALLERY LABELS

About this task

The Discover Label Gallery is a list of commonly defined labels and their definitions. You can use these labels to implement best practices, such as identifying common device types or maintaining your interface inventory. You can also edit these labels to adapt them to your environment. Each label has a link to its definition in JSON format that you can copy and import into Discover. For more information about importing labels, see Import labels on page 95.

For more information, see Discover Label Gallery.

USER-DEFINED LABELS

You can create your own labels and then import them for discovery scenarios that are not addressed by built-in or Discover Label Gallery labels.

Important: User-defined labels are included in exports for **Discover Label Notifications**. For more information, see Export interface data to a Connect destination on page 104.

Import labels

About this task

By default, Discover provides only built-in labels. You can import additional labels definitions in a JSON-formatted file so you can apply them to interfaces.

1. Create a JSON-formatted file that contains one or more label definitions that you want to import.

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Best Practice:

For best results, import labels from the Discover Label Gallery to address common use cases. You can also customize these labels to adapt them to your environment, or use them as templates for user-defined labels. The Discover Label Gallery is also available from Discover **Overview** > **Help**.

After you locate the label collection that you want to download, right-click the link and select **Save Link As**. Save the file with a `.json` file extension. For example, `label.json`. For more information, see Labels for common use cases on page 100.

2. From the Menu menu, go to **Discover** > **Labels**, and click **Import Labels**.
3. Drag the JSON file into the **Import Labels** window, or browse the file system to upload your label file.
4. Click **Import**, then view which labels were created, and click **Close**.

Export labels

About this task

Export labels as a JSON file if you need to backup customized labels, share labels among environments, or preserve labels as you fine-tune their definitions.

1. From the Main Menu, go to **Modules** > **Discover** > **Labels**.
2. Select the labels that you want to export:
   - To export specific labels, click the checkbox on one or more label rows.
   - To export every label, click **Export All**.
3. Click **Export**.

View data in Tanium Trends

About this task

After you have well-defined labels, use the **Discover - Labels** board in Tanium Trends to view the current label count and the label count over time.

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Note: Tanium Trends is deprecated and you can no longer create, import, or edit sources and boards. If the **Discover - Labels** board does not appear on the **Boards** page, you cannot review labels in Trends. For more information, see Trends overview on page 0.

Automatically label interfaces

You can configure Discover to automatically apply a label to interfaces that match specified criteria. Each automatic label has two primary components: an activity and one or more conditions. When you create the automatic label, you select an activity that Discover performs on interfaces that match the conditions. Discover applies automatic labels to interfaces each time Discover imports results.

ACTIVITIES

An activity is an action that Discover takes on an interface that matches the label conditions. The activity determines whether the interface is kept, labeled, ignored, or removed. For example, you can select the **Purge** activity to remove from Discover any interface that matches a printer's MAC address.

Important: The **Purge** activity also removes ignored interfaces that match the label conditions, even though those interfaces do not appear on the label details page. Before you create a label with the **Purge** activity, you can review **Interfaces** > **Ignored** for interfaces you want to keep.

LABEL CONDITIONS

About this task

A label condition is the set of criteria that determines when Discover automatically applies a label. For example, if you want to label interfaces on a specific subnet, you can create a condition that matches interfaces within an IP address range.

You create a label condition by defining a condition clause comprised of an attribute, operator, and value. A label can contain up to 900 conditions clauses. For more information about conditions and the information returned by each discovery method, see Reference: Data returned by profile type on page 133.

CONDITION OPERATORS

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An operator defines how to compare the attribute to the value. Each operator has a positive form and a corresponding negative form. For example, there is a **contains** operator and a corresponding **does not contain** operator. Not every operator is supported for every attribute.

Important: The **IP Address**, **Hostname**, and **Labels** attributes support matching on patterns and ranges. Regular expressions are not supported.

The following table describes operators that accept special value formats.

Condition operators

Operator	Description
equal to	An exact match, such as `192.168.1.195`.
has an address in the range	For **IP Address**, a range or CIDR block, such as `192.168.1.195-192.168.1.197` or `192.168.1.0/24`. If you enter starting and ending addresses, both addresses must use the same IP version, and you must order the addresses from low to high. For example, `fe80::-fe80:ffff:ffff:ffff:ffff:ffff:ffff:ffff` is a valid range.
matches pattern	Glob match that supports `*` (multiple characters) and `?` (single character), such as `192.168.1.???` matches IP that have three digits in the last octet. The pattern must match the entire value.
contains	Partial match for a value.
has <value>	Match for at least one value.
is empty	No value present.

CONDITION WILDCARDS

You can use the underscore character (`_`) as a wildcard in a label condition to represent any number or literal character. For example, consider the following MAC addresses:

```
02-0F-B5-61-AB-01
02-0F-B5-38-1F-39
02-0F-B5-98-5B-69
02-0F-B5-55-0C-21
02-0F-B5-32-FA-E1
```

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The condition `MAC contains B5-3_` matches the following MAC addresses:

```
02-0F-B5-38-1F-39
02-0F-B5-32-FA-E1
```

CREATE AN AUTOMATIC LABEL

1. From the Main menu, go to **Modules** > **Discover** > **Labels**, and click **Create Label**.
2. For **Type**, select **Automatic**.
3. In the **Activity** section, select an activity to apply to interfaces. For more information, see Activities on page 97
   If you select **Promote**, Discover stores the unmanaged interface data in TDS for use in other modules. Only unmanaged interfaces can be promoted. If found during a network scan, the interface must also have a MAC address.Discover automatically applies the conditions required to promote an interface. You do not need to define additional conditions. For more information about Tanium Data Service, see Tanium™ Interact User Guide: Managing Tanium Data Service.
4. Add one or more conditions that determine which interfaces match the label. For more information, see Label conditions on page 97.
5. (Optional) Click **Calculate Applicable Interfaces** in the **Applicable Interfaces** section to verify matching interfaces.
6. Click **Create**.

Result

Discover applies automatic labels to interfaces each time Discover imports results. To see when the last import completed and when the next import runs, from the Main menu, go to **Modules** > **Discover** > **Overview** and review the **Recent & Upcoming Imports** chart in the **Activity** section.

Manually label interfaces

Note: You can manually label an interface with user-defined labels only. You cannot manually add an automatic label to an interface. Discover applies automatic labels based on label conditions only. For more information, see Automatically label interfaces on page 97.

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CREATE A MANUAL LABEL

About this task

Create custom labels for discovery scenarios that are not addressed by built-in or Discover Label Gallery labels. You might need to manually apply a user-defined label if you determine how you want to manage an interface after it is imported into Discover.

1. From the Main menu, go to **Modules** > **Discover** > **Labels**, and click **Create Label**
2. Give the label a **Name**. For **Type**, select **Manual**, then click **Create**.
3. From the Main menu, go to **Modules** > **Discover** > **Interfaces** and select the row of one or more interfaces that you want to label.
4. Click **Add Label**, and select the label from the list.

REMOVE A MANUAL LABEL

About this task

Remove a manually applied label from an interface when it is no longer needed to manage or track the interface.

1. From the Main menu, go to **Modules** > **Discover** > **Interfaces**.
2. In the **Details** section, find the interface in the grid, and click Interface Details to open a side panel that shows information about the interface.
3. Beside **Labels**, find the manually applied label that you want to remove, and click ✕ to remove the label from the interface.

Best practices for labels

Implement effective labeling strategies keep your interface inventory accurate and to support business processes.

LABELS FOR COMMON USE CASES

About this task

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Many environments share the same requirements for devices that are typically unmanageable or irrelevant. For example, you cannot manage devices like routers or printers that cannot run the Tanium Client, and you do not want to track inactive devices in your interface inventory. To address these common use cases, Tanium provides **Collection of Labels for New Deployment or POC** in the Discover Label Gallery.

This collection include the following labels:

- **D99_Common_Unmanageable_by_Manufacturer_<data-id>**: These labels use manufacturer names to identify traditionally unmanageable interfaces and marks them as unmanageable.
- **D55_Managed_Systems_Disconnected_Interfaces**: This label ignores interfaces that are not in use by your managed endpoints.
- **M02_Purge old Interfaces**: This label purges interfaces that have not been seen for 30 days so you do not manage ephemeral or inactive devices.

> **Important:** If you installed Discover for the first time with version 4.4 and used the Tanium Recommended Installation workflow, you also have the more aggressive **Purge Stale Interface** label. This label is configured to purge interfaces that have not been detected in seven days.

For more information, see Discover Label Gallery labels on page 95.

CREATE A CONNECT JOB FOR LOST INTERFACES

About this task

You can use the built-in **Lost Interface** label to create a Connect job that notifies you whenever a managed interface stops communicating with Tanium. A lost interface is any interface that was managed within the last 24 hours but is currently unmanaged. Typically, this occurs because the Tanium Client was uninstalled, or it is not registering with the Tanium Server. You should investigate lost interfaces to determine the cause of the communication issue.

You can send Connect notifications to event destinations such as email, SIEM, or Splunk. For more information about creating a Connect job for lost interfaces, see Create connection for event notifications.

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APPLY LABELS BY LOCATION

About this task

Labels are applied globally across all interfaces and do not respect location permissions. To help organize your interfaces by location, you should apply labels to all interfaces that are associated with that location. For example, you can create a Boston label and apply it to all interfaces discovered in the Boston location.

Applying labels by location provides the following benefits:

- Users can filter and view interfaces associated with their location.
- Users apply labels only to interfaces allowed through their location permissions.
- You can implement location-based workflows with labels. For example, you can create a connect job for lost interfaces for each location, and you can create location-specific Tanium Client Management deployments. For more information about Connect jobs, see Create a Connect job for lost interfaces on page 101. For more information about deploying the Tanium Client with labels, see Endpoint onboarding on page 102.

To label interfaces by location, you must configure location permissions and create an automatic label with a condition that references the location. The following steps provide a high-level overview of the process.

1. Create location permissions that associate one or more user groups with a location. For more information, see Assign location permissions.
2. Create an automatic label that includes the condition: `Location has a location within location-value`. For more information about creating automatic labels, see Automatically label interfaces on page 97.

Result

For more information about locations, see Locations on page 89.

ENDPOINT ONBOARDING

Endpoint onboarding is the process of installing the Tanium Client on unmanaged endpoints. Labels can help you identify endpoints that you want to bring under Tanium control. You can create a label

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and use that label as a deployment target to deploy the Tanium Client to unmanaged interfaces. For example, you can apply a label to all interfaces in the network for a new office location and then configure a satellite to deploy the Tanium Client on interfaces with that label.

For more information about using Discover labels to deploy the Tanium Client, see Tanium™ Client Management User Guide: Deploying the Tanium Client using Client Management.

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Exporting Discover data

About this task

You can export interface and event information from Discover to Tanium™ Connect.

The preferred method for exporting data is to use the Discover data source in Connect. For more information, see Export interface data to a Connect destination on page 104.

Note: Discover exports dates in ISO 8601 format (`yyyy-MM-ddTHH:mm:ss.SSS`), set to Coordinated Universal Time (UTC). For example, `2025-08-22T13:05:12.789Z`.

Export to a CSV file

To export the current data grid of interfaces to a CSV file, click Export Data. The export includes the data that currently appears in the data grid. The CSV file does not include ignored interfaces unless you apply the **Ignored** saved filter before exporting.

The **Unmanageable** column in the CSV file indicates if the endpoint can be managed by the Tanium Client. The following table explains the numbers in the **Unmanageable** column.

Possible values for the Unmanageable column

Number	Label
0	Managed or Manageable (automatic)
1	Unmanageable (automatic)
2	Manually Marked Manageable
3	Manually Marked Unmanageable

Export interface data to a Connect destination

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About this task

To create reports of the interfaces in Discover to Connect destinations such as Email, File, HTTP, Socket Receiver, Splunk, and SQL Server, create a connection. You must have Connect 4.10 or later. Only the **Ignored** report includes ignored interfaces.

You can export interfaces with the following reports:

All

Exports all non-ignored interfaces in Discover.

Ignored

Exports interfaces marked as ignored. This list is also on the **Ignored Interfaces** page.

Labeled

Exports all interfaces that have a label applied, including configured automatic labels.

Managed

Exports interfaces that have the Tanium Client installed.

Unlabeled

Exports interfaces that do not have any labels applied.

Unmanageable

Exports interfaces that were marked as unmanageable.

Unmanaged

Exports interfaces that do not have the Tanium Client installed.

Connections to create

Best Practice: Create the following connections to track possible network issues, Tanium Client installations, and hard to inventory devices.

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Connections to create for Discover in Tanium Connect

Purpose	Source Type	Select	Destination
Alert on clients that are no longer reporting to Tanium, which might identify network issues	**Event > Discover notifications**	**Lost Interface**	SIEM, helpdesk or email alerting
Generate executive rollup of interface status for multiple Tanium installations	**Tanium Discover**	**Managed, Unmanaged**	Reporting tool
Classify hard to inventory devices (IP Telephony, printers, security cameras, Internet of Things devices)	**Tanium Discover**	**Unmanageable**	Reporting tool

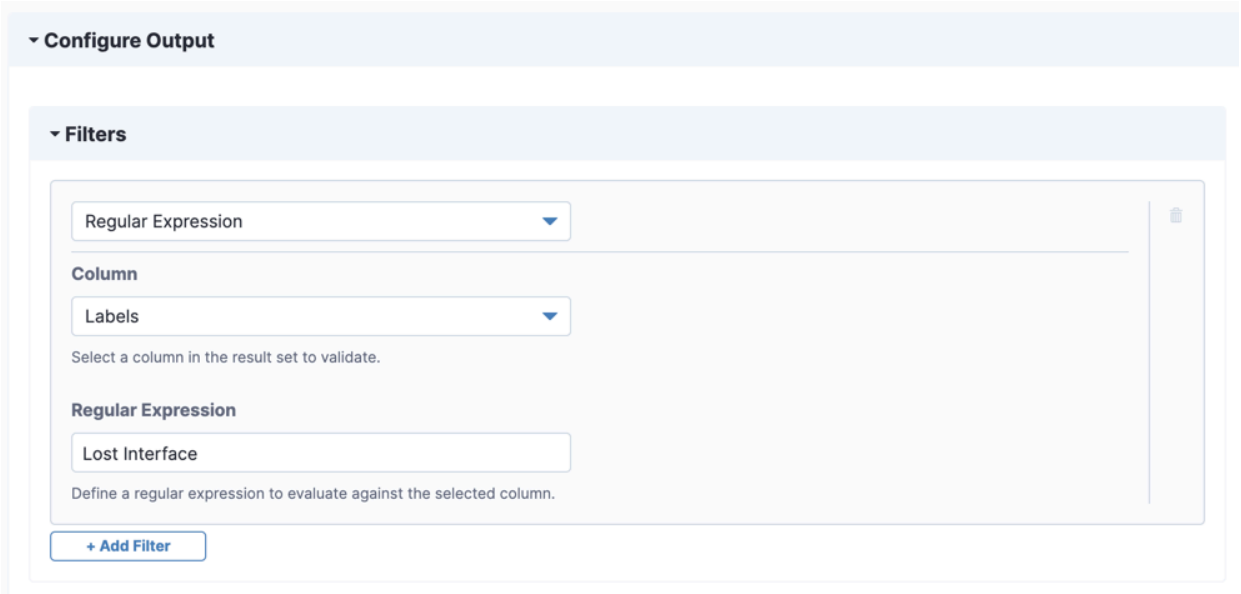
Create connection to export interfaces

About this task

Create a connection to export interface data. You can apply filters to the data.

1. Create the connection.
    a. From the Main menu, go to **Modules > Connect > Connections**. Click **Create Connection**.
    b. Name the connection.
2. In the Source section, select the **Tanium Discover** source. Select the report that you want to use.
3. Select a destination.
4. Apply filters. You might want to apply a filter if you are trying to export a specific label. Figure 11. Export filters

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For example, if you want to export all interfaces that are tagged with Lost Interface, apply a regular expression filter and type `Lost Interface` as the text to match on the **Labels** target column.

5. Choose format settings and schedule.
6. Click **Save**.

Create connection for event notifications

About this task

You can send data notifications about Discover events to destinations such as email, SIEM, or Splunk. To configure notifications, create a connection with Connect. The following Discover event groups are available for configuring notifications:

- **Discover Label Notifications**
    - Configure a notification based on a selected set of automatic notify labels. You can choose to create notifications for a single label or a group of labels. You must have custom notify labels defined to use this option.
- **Discover Notifications**
    - **All labels**: Create notifications for all configured automatic notify labels.
    - **New unmanaged interface**: Discover found a new unmanaged interface in your

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environment. This behavior is controlled by the pre-configured New Unmanaged Interface label.

- **New managed interface**: Discover found a new managed endpoint in your environment. This behavior is controlled by the pre-configured New Managed Interface label.

- **Lost interface**: Discover found an unmanaged interface that was formerly managed. For an interface to be marked as lost, it must:

    - Not show up in the **Managed Interfaces** page for one day

    - Have a value in the **Last Discovered** column

    - Show up as an unmanaged interface as a result of active discovery methods in the last 4 hours (Nmap scan, connections, or simple ping script)

  This behavior is controlled by the pre-configured Lost Interface label. To update the conditions that determine a lost interface, change the default settings for the Lost Interface label.

Prerequisites

- You must have Connect installed. For more information, see Tanium Connect User Guide: Installing Tanium Connect.

- You must have the **Connect User** role to create a connection. For more information about how to configure user roles, see Tanium Core Platform User Guide: Manage role assignments for a user.

- Verify that the automatic labels that you want to use for the notifications are configured to generate a notify activity and provide the correct data. For more information about automatic labels, see Automatically label interfaces on page 97.

Configure notifications in Connect

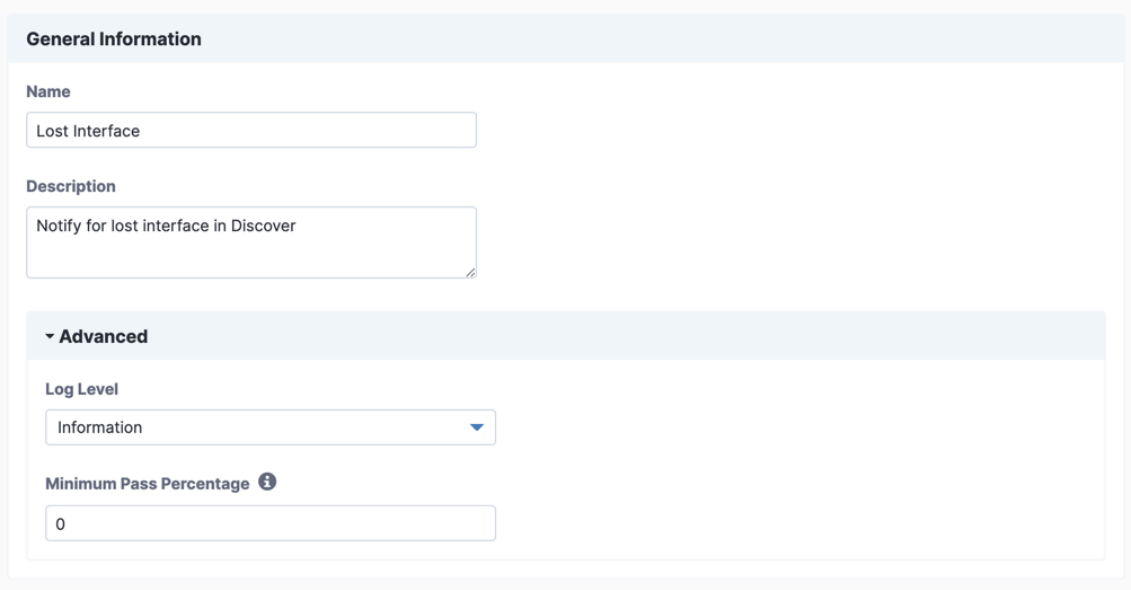
About this task

Create a connection to send notifications to various destinations.

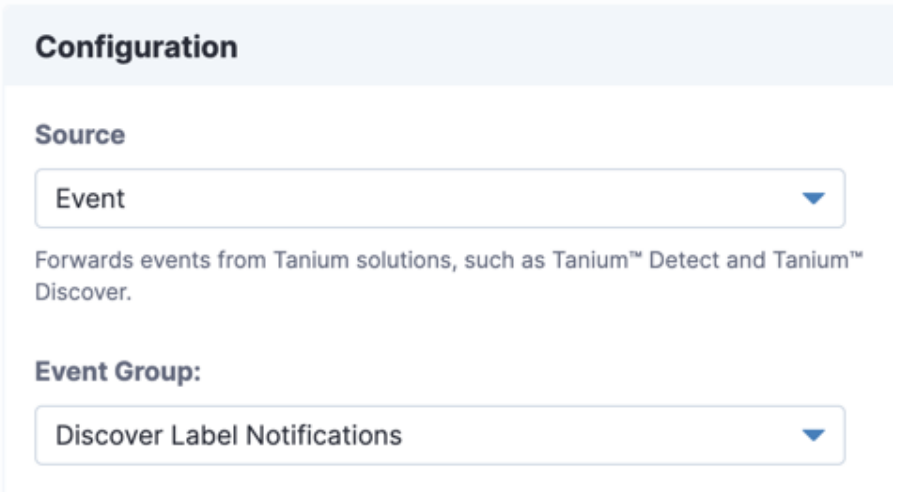
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1. Create the connection.
    a. From the Main menu, go to **Modules** > **Connect** > **Connections**. Click **Create Connection**.
    b. Name the connection.

    Figure 12. General Information section



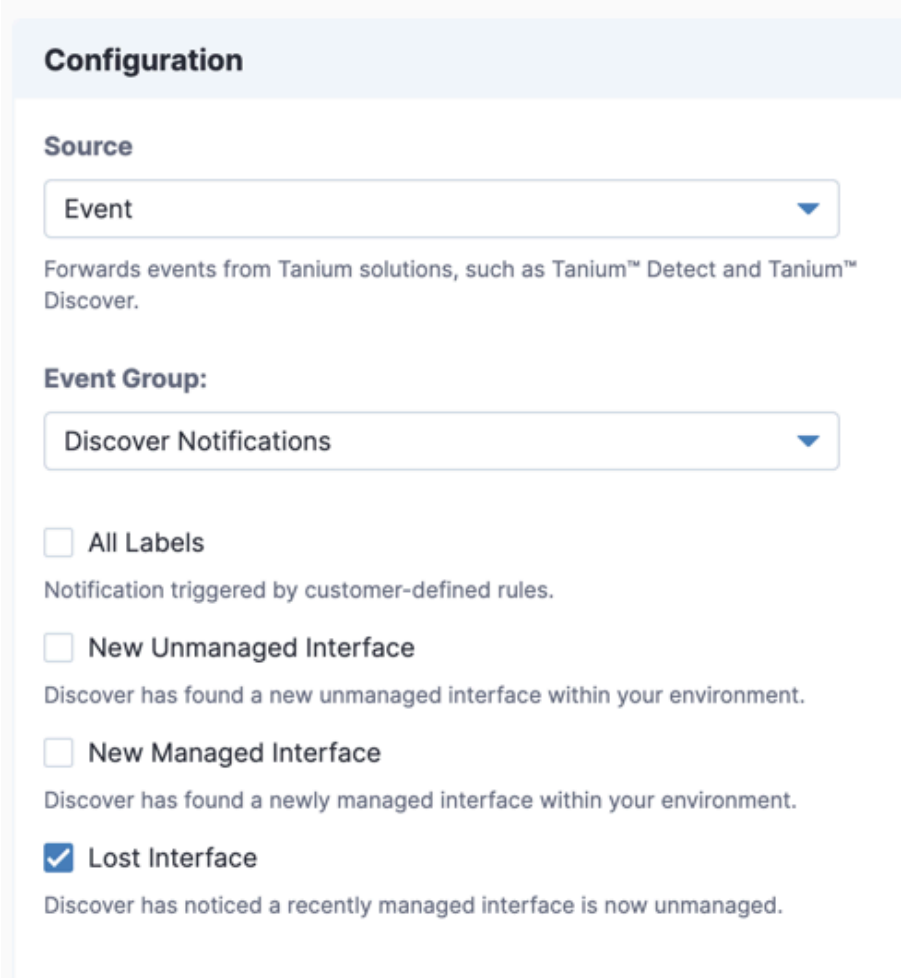
2. Configure the data source.
    a. In Source, select the **Event** source.
    b. Select **Discover Notifications** and choose the event group that you want to use.
        - For the **Discover Label Notifications** event group, select the labels for which you want to send notifications. Label notifications are available for labels that you add, not for the predefined labels. If you do not have user-defined labels, you do not see the Discover Label Notification event group.



        - For the **Discover Notifications** event group, select one or more Discover

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events for which to send notifications.



3. (Optional) Filter the data. You can optionally filter for new items, regular expressions, numeric operators, or unique values from data columns.
4. Configure the connection destination. Select any of the connection destinations that are listed in the **Select Destination** menu. Common choices for notifications include Email, SIEM, and Splunk. However, you can use any of the available destinations. For more information, see Tanium Connect User Guide.
5. Complete the required fields and click **Create Connection**.

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Maintaining Discover

About this task

Perform monthly maintenance tasks to ensure that Discover successfully performs scheduled activities on all the targeted endpoints and does not overuse endpoint or network resources. If Discover is not performing as expected, you might need to troubleshoot issues or change settings. For more information about how to view related procedures, see Troubleshooting Discover on page 116.

Review and remediate Discover resource usage on the Module Server

About this task

Review and remediate the Discover CPU and memory heap usage. High resource consumption might impact Discover performance.

1. From the Main menu, go to **Modules** > **Trends** > **Boards**.
2. Click the **Discover - Module Health** board and review the panels for resource usage issues.
3. For more information about how to troubleshoot resource usage issues, see Tanium Discover User Guide: Troubleshooting Discover.

Next steps

> **Note:** Tanium Trends is deprecated and you can no longer create, import, or edit sources and boards. If **Discover - Module Health** does not appear on the **Boards** page, you cannot review resource usage in Trends. For more information, see Tanium Trends User Guide: Trends overview.

Review and update discovery methods

About this task

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Review profile status and configuration to optimize discovery methods.

1. From the Main menu, go to **Modules** > **Discover** > **Profiles**.
   The **Profiles** page opens.

2. Review the **Status** of the profiles for warnings or errors. These conditions are the result of a profile mismatch between the Tanium Server and the Tanium Client.

3. Contact Tanium Support on page 131 if necessary to resolve any warning or error conditions.

4. Review profile configurations to verify that their discovery methods are optimal. For example:
   - Verify that scanning excludes virtual private network (VPN) connections. Clients that connect over a VPN are typically isolated leaders that do not peer with each other. For more information, see Tanium Client Management User Guide: Verify or remediate Tanium Client peering and leader connections.
   - Review unmanaged endpoints to determine if they are eligible for the Tanium Client. For more information, see Tanium Discover User Guide: View interface data.

5. Troubleshoot discovery issues if necessary. For more information, see Tanium Discover User Guide: Troubleshooting Discover.

6. Edit profiles if necessary to resolve discovery issues: go to the **Profiles** page, click the profile **Name** and reconfigure the settings. For detailed steps, see:
   - Tanium Discover User Guide: Configure profile for distributed scan
   - Tanium Discover User Guide: Configure profile for satellite scan

7. Delete or disable profiles that are no longer useful.
   - Delete profiles: From the **Profiles** page, select the profiles and click **Delete Profile**.
   - Disable profiles: From the **Profiles** page, select the profiles and click **Disable Profile**. Alternatively, to disable a single profile, in the **Action** column of the profile that you want to disable, click Action and select **Disable Profile**.

Monitor and troubleshoot endpoints managed

About this task

The following table lists contributing factors into why the **Endpoints Managed (%)** metric might be lower than expected, and corrective actions you can make.

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Factors that contribute to a lower-than-expected Endpoints Managed metric

Contributing factor	Corrective action
Installation Method Gap	• Use existing tools that are already part of the infrastructure. • Use standard tools (might only cover a subset of potential systems in your environment) such as: • SCCM - easy deployment mechanism (Windows only) • Group Policy - with the correct setting can deploy Tanium Client (Windows only) • Salt - a common tool used for installation of software in any environment (cross-platform) • Use a Tanium-provided installation method such as Tanium Client Management.
Credential Gaps	Use of any of the Tanium-provided installation methods involves using credentials to access the systems. Work with various management teams and deployment teams to understand what credentials are available to do installations on systems. Work with server or workstation support teams to understand these areas.
Network Gaps	Installing clients on "protected" networks such as DMZs or other sensitive areas is often a problem. These issues are technical, but the technical hurdles are generally an issue with policies and permissions. Work with the correct stakeholders to understand how Tanium will be used in the environment. Negotiate restrictions to be lessened to allow installation of Tanium Clients in these protected networks.

Monitor and troubleshoot mean time to manage

About this task

The following table lists contributing factors into why the **Mean Time to Managed** metric might be higher than expected, and corrective actions you can make.

Factors that contribute to a higher-than-expected Mean Time to Managed metric

Contributing factor	Corrective action
No automation	Tanium Discover can find clients, but with no action, a project can stall. Automating installation with Discover labels to target installation with Tanium Client Management is key. Take the human interaction out

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Contributing factor	Corrective action
	when possible, or build a workflow around Discover labels when items are found to feed into Tanium Connect and create help desk tickets or simple email lists.
Non-optimized Discover settings	• Adjust configuration settings. The key elements are how often to scan, and how often to import data. The Discover scans are built to be “low impact” on any network environment. Recommended scanning is once an hour in most environments. Scanning once an hour causes near zero impact and is fast enough to take action on unmanaged interfaces. Recommended importing is every thirty minutes and causes near zero impact to an environment. • Exclude scanning in parts of the network where you do not need scanning. To be successful in any enterprise, exceptions are always required. Discover has fine-grained control so you can exclude what you do not want to scan. For more information, see Knowledge Article: Getting Surgical with Endpoint Discovery: Using Targeting and Exclusions in Tanium Discover. • Select a discovery method that provides OS details. If installation requirements are governed by operating system (such as different teams are responsible for installation on different operating systems), selecting the right discovery method is key. Nmap with OS Fingerprinting (level 4 distributed scan) are required to effectively understand the operating system. Level 2 ping scans can provide OS in some but not all cases. • Use Discover Labels to make better sense of your environment, so you can bring items under management. Use the Tanium label gallery to import common labels to help determine manageability of existing interfaces. For more information, see Knowledge Article: Discover Labels - Common labels available for import. • Best practices • Tanium Community discussion: How do I configure Tanium Discover so that home networks are not scanned? • Tanium Community discussion: Visibility of discovered assets - Removing Devices from view • Tanium Community discussion: Visibility of discovered assets - Finding likely manageable resources • Tanium Community discussion: I see assets in my Tanium Discover data that are no longer online, how do I keep my Tanium Discover database clean?

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Contributing factor	Corrective action
Regional Ownership	Often various regions have different support structures in the larger enterprise. Understanding what systems belong to these regions is key to providing the guidance to the owning team they need to help install. Use locations to export or visualize data.
Understand your environment	Proper deployment sometimes requires understanding what is working and what is not working. With the data grids and graphs in Discover , you have a real-time view the environment. With a high level view over time, you can understand how deployments are working and cross-pollinate various ideas that work across a larger group. To get a high level view, use the Discover dashboards in Tanium Reporting. For more information, see Tanium Reporting .

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Troubleshooting Discover

About this task

If Discover is not performing as expected, you might need to troubleshoot issues or change some settings. To send information to Tanium for troubleshooting, collect logs and other relevant information.

Collect logs

About this task

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, complete the following steps:

1. From the **Discover Overview** page, 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 Support Bundle**. ZIP files of all the selected packages download to the local download directory.

   Tip: 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 file. For more information, see Contact Tanium Support on page 131.

Result

Discover maintains logging information in the discover.log file in the *<Module Server>*/services/discover-service-files/discover.log directory.

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Collect troubleshooting information from endpoints

About this task

You can use Client Management to directly connect to an endpoint and collect a bundle of logs and other artifacts, sometimes referred to as an *Endpoint Must Gather* (EMG).

1. From the Main menu, go to **Shared Services** > **Client Management**.
2. From the Client Management menu, click **Client Health**.
3. In the **Single Endpoint View** search box, enter all or part of an IP address or a computer name.
   Matching results appear after the search completes.
4. From the search results, click the computer name.
   Client Management opens the Endpoint Details page in Single Endpoint View (SEV).
5. Click the **Client Health** tab and, if the endpoint is not yet **Connected**, click **Direct Connect**.
6. In the **Available Steps** grid, select the domains (types of logs and artifacts) for which you want to gather troubleshooting information.
   For Patch information, select the **Core** and **Patch** domains.

   For Comply information, select the **Comply** domain and then select **Comply Database**, **Comply Extension Data**, and **Comply Intel**.

   For Endpoint Management for Operational Technology entity provider information, select the **Core** domain and then select **Tanium Client Logs**. Select the **Entity** domain and then select **Config Data**, **Entity Log**, and **Entity Provider Metadata**.
7. Click **Gather from Endpoint**.
   The selected logs and artifacts are gathered from the endpoint. The package appears in the **Must Gathers** section, and the name of the package corresponds with its time stamp.
8. When **Finished** appears in the **Run State** column, select the package and click **Download** to download a ZIP file that contains the troubleshooting information.
   For more information about collecting troubleshooting information in Single Endpoint View, see Tanium Reporting User Guide: Collect troubleshooting information.

   For more information about how to connect directly to endpoints, see Tanium Direct Connect

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User Guide.

For more information about Client health features in Client Management, see Tanium Client Management User Guide: Monitor the Client health overview in Client Management and Tanium Client Management User Guide: Access detailed Client health and troubleshooting information on an endpoint.

Verify endpoint tools

If you are experiencing issues such as a feature not working on an endpoint or seeing incorrect data in the workbench, confirm that your endpoints have the latest toolset version.

For more information, see Tanium Endpoint Configuration User Guide: Identify and resolve issues with endpoint tools or Client Extensions and Reference: Client extensions and endpoint tools used for Tanium solutions.

Identify and resolve issues with Client Extensions

About this task

Use the following steps to troubleshoot issues with the Client Extensions that Discover installs and uses. During troubleshooting, consider environmental factors such as security exclusions, file locks, CPU usage, RAM usage, and disk failures.

Tip: For more information about the Client Extensions that Discover installs and uses, see Client Extensions on page 26.

1. If endpoints have Client Extension shared process mode enabled and you need to troubleshoot resource usage or crashes in the combined TaniumCX.exe or TaniumCX process, disable shared process mode on the affected endpoints, and then reproduce the issue if possible. For more information, see Manage Client Extension shared process mode.
2. To review the health of Client Extensions or to start an investigation into an existing error, ask a question using the `Client Extensions - Status` sensor.
   The results of these questions help to identify endpoints with errors and provide a starting point to deploy actions that might help correct the issue. Filter the results and drill down as

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necessary to investigate results that indicate errors.

Tip: Consider whether endpoints with errors share common characteristics, such as operating system, domain or organization unit, or the antivirus software that is installed.

3. Target one or more endpoints with errors, and uninstall tools that report errors without blocking reinstallation. For more information, see Remove Discover tools from endpoints on page 129 and Endpoint Configuration User Guide: Uninstall a tool installed by Endpoint Configuration.

   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.

   Wait for automatic reinstallation of the tool. If the reinstallation does not resolve the issue, continue to the next step.

4. Ask a question using the `Endpoint Configuration - Tools Status Details` sensor, and include filters to limit the results to the tool that you are investigating. For example:
   `Get Endpoint Configuration - Tools Status Details having Endpoint Configuration - Tools Status Details:Tool Name contains <Tool_Name> from all machines with Endpoint Configuration - Tools Status:Tool Name contains <Tool_Name>`

   Review the columns in the results for specific information about errors. The following table provides guidance for some common error conditions:

Potential errors returned by the Endpoint Configuration - Tools Status Details sensor

Error Condition	Possible Resolution
No error appears, but an available new version has not been installed	Review the **Targeted Version** column to make sure that the endpoint has received the latest manifest. If the targeted version does not yet show the updated version, the Endpoint Configuration manifest has not updated on the endpoint, usually for one of the following reasons: • The manifest update is still pending. Either wait for the manifest to update and then

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Error Condition	Possible Resolution
	review the results again, or follow the steps in Endpoint Configuration User Guide: Verify and manually update the Endpoint Configuration manifest. • Action lock is enabled on the endpoint. Follow the steps in Endpoint Configuration User Guide: Verify and manually update the Endpoint Configuration manifest to identify endpoints with action lock turned on. • Discover is no longer installed, or it is no longer targeting the endpoint. In some cases, Discover might stop targeting an endpoint because it no longer needs the endpoint for a particular workload. Consider whether Discover should still target the endpoint: • If it is expected or intentional that Discover no longer targets the endpoint, you can optionally uninstall Discover tools and dependencies. For more information, see Remove Discover tools from endpoints on page 129. • If Discover should still target the endpoint, make sure that the Discover action group includes the endpoint, and make sure Discover targets the endpoint in any expected configurations or profiles. Then, either wait for the manifest to update and then review the results again, or follow the steps in Endpoint Configuration User Guide: Verify and manually update the Endpoint Configuration manifest.
Installation Blocker: `Unmet Dependencies: [ Tool name ]`	If no **Failure Message** or **Failure Step** appears, the endpoint might be waiting for the dependencies to install. Wait to see if the condition resolves on its own. If this condition remains for an extended period, ask the question again and review any error information in other columns, especially the **Failing Dependency** column.
`Failing Dependency:[ Tool name ]`	Ask the question: `Endpoint Configuration - Tools Status Details having Endpoint Configuration - Tools Status Details:Tool Name contains [Tool name] from all machines with Endpoint Configuration - Tools Status:Tool Name contains [Tool name]` Investigate further errors with the tool. If the dependency has not been installed on an endpoint, ask the question: `Get Endpoint Configuration - Tools Retry Status from all machines with Computer Name equals Computer_Name` to review the retry status for the tool installation. For more information, see Review tool installations that are scheduled for a retry .

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Error Condition	Possible Resolution
Manually Blocked: `blocked`	The tool was previously blocked, either manually or during a previous uninstallation. Unblock the tool. For more information, see Block or unblock tools from installing on an endpoint .

5. Review the Extensions logs on the endpoint. Take note of entries that include `fail` or `error`. For more information, see Review the Extensions log for an endpoint on page 121.

Next steps

For additional help, collect all logs for Discover, and contact Tanium Support on page 131.

Review the Extensions log for an endpoint

About this task

Use Client Management to directly connect to an endpoint and view and download extension logs.

1. From the Main menu, go to **Shared Services** > **Client Management**.
2. From the Client Management menu, click **Client Health**.
3. In the **Direct Connect** search box, enter all or part of an IP address or a computer name. Matching results are displayed after the search completes.
4. From the search results, click the computer name to connect to the endpoint.
5. Click the **Logs** tab, and select an extensions[#].log file.
6. (Optional) To download the log, click **Download**.

Next steps

For additional help, collect all logs for Discover, and contact Tanium Support on page 131.

View Discover scan ranges

About this task

You might want to see the ranges that are scanned before you run discovery, or to troubleshoot

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discovery that has already run. To see the calculated gaps between the managed interfaces, use the **Discover Scan Range** sensor. The sensor returns results for Windows, macOS, Linux, AIX, and Solaris endpoints.

For example, you might use the question: `Get Computer Name and Operating System and Tanium Client IP Address and Discover Scan Range from all machines`. The results contain the range between each of the managed endpoints and its forward and backward peers.

Problem: No results from running a scan

To return results, Discover tools must be distributed to the endpoints. If you do not see results:

- Check the configuration of the Discover action group. For more information, see Import Discover with default settings on page 43.
- Check the status of the Discover action group. From the Main menu, go to **Administration** > **Actions** > **Scheduled Actions**.

Problem: Some endpoints are not scanning

You might find that some endpoints are not scanning. For example, the question: `Get Discover Last Scan Range from all machines` returns `[no results]`.

Try adjusting the **Start at** time of the scheduled action to a few minutes after the **Opening Time** of the configured scan window in the profile.

1. Get the start time of the start window for your profile. From the Main menu, go to **Modules** > **Discover** > **Profiles**. Hover over the profile_name and click Edit . In the **Scan Window** section, note the value of the **Opening Time** setting.
2. From the Main menu, go to **Administration** > **Actions** > **Scheduled Actions**. Click the **Tanium Discover** action group.
3. Select the scheduled action that is associated with the profile:
    - **Distributed scan profile**: **Discover - Execute Scan [profile_name]** or **Discover - Execute Scan for Non-Windows [profile_name]**.

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- **Satellite scan profile**: **Discover - Execute Satellite Scan [profile_name]** or **Discover - Execute Satellite Scan for Non-Windows [profile_name]**.

4. Click **Edit**.
5. Edit the **Start at** time to start a few minutes after the **Opening Time** you found in your profile.

Note: Discover cannot perform satellite or distributed scans on endpoints with action locks turned on. See Tanium Console User Guide: Managing action locks.

Important: In some cases, Discover might stop targeting an endpoint because it no longer needs the endpoint for a particular workload. For example, if an endpoint is being used in a level 4 distributed scan, and peer endpoints appear with adjacent IP addresses, Discover no longer needs the original endpoint for the level 4 scan and no longer targets it. For more information, see Identify and resolve issues with Client Extensions on page 118.

Problem: Satellite profile appears in ERRORED state

Symptom

When you view the **Profiles** page, a satellite profile appears with a status of **Needs Deployment**. When you expand the profile, the **Status Details** contains **ERRORED**.

Cause

Reasons why a profile appears in ERRORED state include the following:

- Tanium Direct Connect is not installed.
- The satellite in the profile is not available.
- The profile publish was interrupted.
- The profile targets more than 4,096 IP addresses.

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Solution

Discover automatically tries to republish ERRORED profiles at regular intervals. After you resolve the underlying issue for an ERRORED profile, wait until Discover republishes the profile.

1. If all satellite profiles are in ERRORED state, verify Direct Connect is installed.

    a. From the Main menu, go to **Administration** > **Configuration** > **Solutions**.

    b. Navigate the **Content** section and use the filter to find `Direct Connect`.

    c. Verify that a version appears in the **Imported Version** column. If the **Imported Version** column is empty, install Direct Connect. See Tanium Direct Connect User Guide: Installing Direct Connect.

2. Make sure the satellite defined in the profile is available.

    a. From the Main menu, go to **Modules** > **Discover** > **Profiles**.

    b. Click the name of the profile to open the **Edit Profile** page.

    c. In the **Satellites** section, verify that one satellite is selected, and that the **Status** for the selected satellite is **Online**.

        - If a satellite is selected is online, continue to step 3.
        - If no satellite is selected, select another satellite and then click **Save**.
        - If the selected satellite is **Offline**, select another satellite and then click **Save**. Alternatively, you can investigate why the currently selected satellite is offline.
        - If necessary, edit the list of available satellites in Direct Connect. For more information, see Tanium Direct Connect User Guide: Managing satellites.

    d. If you made changes to the profile, click **Save**.

    The **Profiles** page opens and a notification appears if the profile saved successfully.

    e. Wait a few minutes and then refresh the **Profiles** page. If the profile publishes successfully, the status changes to Published or Scan Completed.

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3. Edit the profile and make sure the combined total of any networks selected in the **Scan Inclusions** targets 4,096 IP addresses or less. If necessary, remove networks or add scan exclusions to reduce the number of targeted IP addressess. For information, see Configure profile for satellite scan on page 70.

4. If Direct Connect is installed, the satellite in the profile is online and available, and the profile targets 4,096 IP addresses or less, it is possible that an interruption occurred when Discover attempted to publish the profile. In this situation, you can either re-save the profile to force Discover to publish the profile, or wait until Discover automatically publishes the profile.

    a. From the Main menu, go to **Modules** > **Discover** > **Profiles**.

    b. Click the name of the profile to open the **Edit Profile** page.

    c. Click **Save**.

    The **Profiles** page opens and a notification appears if the profile saved successfully.

    d. Wait a few minutes and then refresh the **Profiles** page. If the profile publishes successfully, the status changes to Published or Scan Completed.

Problem: Scans are delayed for profiles that exclude isolated endpoints

If a profile excludes isolated endpoints, Discover does not launch a scan until the endpoint's isolation status is stable for 5 minutes. Expect this delay after a Tanium Client restart, a hibernate or wake event, or a network change.

If the isolation status is still unstable, Discover retries the scan up to 10 times at 5-minute intervals (approximately 50 minutes total) before abandoning the attempt for the current execution. The scan runs at the next scheduled launch.

In the endpoint extension logs (extensions0.txt), affected scan attempts record `Isolation is Unstable` or `Isolation is Unstable, will try again` messages.

Problem: Error with locations CSV file

If you see `Error: Network specified for a parent. Networks can only be`

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`specified at the lowest level of the hierarchy.` in the workbench and are unable to import the locations file, confirm that no row ends at a location that is the parent of a location in another row.

For example, consider the following CSV file:

Figure 13. Example locations CSV file



Think of the hierarchy specified in the CSV file as a tree, and each row is a branch. Line 1 creates a United States branch with a sub-branch for Michigan. Line 8 creates a France branch. Line 11 creates a branch for Germany and a sub-branch for Berlin.

Line 13 creates the error because it ends at Germany, which line 11 already uses as the parent of Berlin. If line 13 specified another German state, as line 14 does, it would not create an error.

Problem: Needs deployment profile status

This warning indicates there is a profile mismatch between the Tanium Server and the Tanium Client. Contact support for assistance.

To contact Tanium Support for help, sign in to the Tanium Customer Community.

For more information about submitting a support case, see Case Submission Form.

Problem: An interface is missing or out of date

Discover updates interface data when an import completes. To see when the last import completed and when the next import runs, from the Main menu, go to **Modules** > **Discover** > **Overview** and review the **Recent & Upcoming Imports chart** in the **Activity** section.

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Interfaces might appear in saved question results before they appear in Discover data. To view Discover interfaces in Interact, from the Main menu, go to **Modules** > **Interact** > **Overview** and filter for `Discover` in the **Saved Questions** section. The following saved questions are available for Discover:

- **Discover - Managed Interfaces**
- **Discover - Managed Interfaces Include IPv6**
- **Discover - Unmanaged Interfaces**
- **Discover - Unmanaged Interfaces Include IPv6**

Click a saved question to view the **Question Results** grid.

Important: Duplicate MAC addresses can prevent interfaces from appearing in Discover data. To sort by MAC Address in **Question Results**, click the **Network Adapters: MAC Address** column.

Important: Sensor errors can prevent Discover from reporting managed interfaces. To view sensor errors in **Question Results**, in the Console header, hover over  and select **Preferences**. Confirm **Hide Error Results from Questions** is not selected. For more information, see Tanium Console User Guide: Managing sensors for collecting endpoint data.

For more information, see Tanium Interact User Guide: Saved questions.

FAQ: Why is the number of managed interfaces higher than the client status?

If you compare the number of managed interfaces in Discover, you might notice that the number is often higher than the number of Tanium Clients that are reported on the Client Status page.

This disparity is expected. Interfaces are unique MAC addresses. One Tanium Client with multiple network interface controllers (NICs) displays as multiple interfaces in Discover. Virtualization software can increase the number of interfaces reported for a computer, if the computer has multiple virtual machines running.

You can also view the Environment Status section in Tanium Console to view the discrepancy between the number of managed interfaces and the Total Endpoints.

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Remove Npcap from endpoints

About this task

You can deploy an action to remove Npcap from an endpoint or computer group.

1. In Interact, target the computers from which you want to remove Npcap.
    - For computers with Npcap installed using Discover 4.3 or later, ask a targeting question:

      ```
      Get Endpoint Configuration - Tools Status from all machines with Is Windows equals True
      ```

    - For all other computers with Npcap installed or if you are not sure how Npcap was installed, ask a targeting question: `Get Discover - Installed Npcap Version from all machines`
2. In the results, select **Npcap** (if using the Endpoint Configuration package) or the versions (if using the Discover package), and select the targets from which you want to remove Npcap. For more information, see Tanium Interact User Guide: Managing question results in Interact.
3. Click **Deploy Action**.
4. On the **Deploy Action** page, select the package:
    - If using the Endpoint Configuration package, do the following:
        a. Enter `Endpoint Configuration - Uninstall` in the **Deployment Package** box, and select **Endpoint Configuration - Uninstall Tool [Windows]**.
        b. For **Tool Name**, select **Npcap**.
        c. (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 using the Discover package, do the following:
        a. Enter `Discover - Uninstall Npcap` in the **Deployment Package** box.

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b. (Optional) By default, the package only uninstalls Tanium-installed versions of Npcap. To uninstall all installations of Npcap, select **Remove Any Npcap Version**.

5. Click **Show preview to continue**.
6. A results grid appears at the bottom of the page to show the targeted endpoints for your action. If you are satisfied with the results, click **Deploy Action**.

Remove Discover tools from endpoints

About this task

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

1. In Interact, target the endpoints from which you want to remove the tools. For example, ask a question that targets a specific operating system:`Get Endpoint Configuration - Tools Status from all machines with Is Windows equals true`
2. In the results, select the row for Discover, drill down as necessary, and select the targets from which you want to remove Discover 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 Discover.
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.

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> **Note:**
> If reinstallation is blocked, you must unblock it manually:
>
> - To allow Discover 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 Discover 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. (Optional) To also remove any tools that were dependencies of the Discover 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.

   > **Tip:** 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 Discover

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1. From the Main menu, go to **Administration** > **Configuration** > **Solutions**.
2. Select the checkbox in the Discover section and then click **Uninstall** and follow the process.
3. Delete any remaining Discover-related scheduled actions and action groups. For more information, see Tanium Console User Guide: Delete an action group.
4. Check for Discover artifacts on your endpoints. Ask the question: `Get Endpoint Configuration - Tools Status Details having Endpoint Configuration - Tools Status Details:Tool Name contains Discover from all machines with Endpoint Configuration - Tools Status:Tool Name contains Discover`. To remove the tools from the endpoints that the question returns, see Remove Discover tools from endpoints on page 129.
5. Check for Discover plugin schedules. From the Main menu, go to **Administration** > **Configuration** > **Plugins**. In the **Plugin Schedules** section, if plugin schedules exist for Discover, contact Tanium Support.



Note: After you uninstall Discover, Tanium no longer installs the Discover and **discover-cx** endpoint tools to new endpoints. The uninstall does not automatically remove endpoint tools from existing endpoints. For more information about how to remove the Discover and **discover-cx** endpoint tools from existing managed endpoints, see Tanium Endpoint Configuration User Guide: Uninstall tools installed by Endpoint Configuration.

Contact Tanium Support

To contact Tanium Support for help, sign in to the Tanium Customer Community.

For more information about submitting a support case, see Case Submission Form.

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Reference: Discover endpoint tools

Note: Each solution includes a tool with the same name as the solution that appears in the Endpoint Configuration Toolset manifest but that does not appear in the following table. This tool is not deployed to the endpoint itself, but it manages the endpoint tooling dependencies for the solution, as listed in the table.

Endpoint tools for Tanium Discover

Tool	Description
core-cx	Provides a management framework API for all other Client Extensions and exposes operating system metrics
cx-config	Provides installation and configuration of extensions on an endpoint
discover-cx	Performs distributed ARP, NDP, Ping, Nmap scans, and satellite Nmap scans
extras-cx	Provides a helper library that contains re-usable functions for various client extensions to use
Nmap	Network mapping tool used for certain scans in Comply and Discover
Npcap	Records process and command-line events on supported Windows endpoints to assist with Nmap scans

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Reference: Data returned by profile type

Unique data is returned from profile scans. This data depends on the profile type and the scan that was performed. For example, level 4 discovery returns operating system information about the found interfaces, but other levels of discovery methods do not.

Information returned on interface pages for each profile types

	Level 1 (ARP)	Level 2 (Ping)	Level 3 (Nmap)	Level 4 (Nmap+Host)	Satellite	Returned for managed interfaces
Computer Id	✓	✓	✓	✓	✓	✓
Discovery Method	✓	✓	✓	✓	✓	✓
First Managed	✗	✗	✗	✗	✗	✓ 1
First Seen	✓	✓	✓	✓	✓	✓
Hostname	✓	✓	✓	✓	✓	✓
Interfaces Number of interfaces that use the specific label. Only appears on the **Labels** page.	✓	✓	✓	✓	✓	✓
IP Address	✓	✓	✓	✓	✓	✓

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	Level 1 (ARP)	Level 2 (Ping)	Level 3 (Nmap)	Level 4 (Nmap+Host)	Satellite	Returned for managed interfaces
Is Locally Administered MAC Value is `True` if the MAC address is assigned by a network administrator or software;.for example, when randomizing the address for privacy reasons. Locally-administered MAC addresses contain no information about the manufacturer of the interface, and the addresses might not be unique. Value is `False` if the address is universally administered, assigned by the manufacturer, and intended to be permanent and unique. Value is `null` if the interface has no MAC address.					 2	
Is Managed Value is `1` for any managed interfaces, `0` for unmanaged.						
Labels Labels are applied to interfaces after they are imported by a profile. For more information, see Labels on page 94.	n/a	n/a	n/a	n/a	n/a	n/a
Last Discovered The last time the interface was found. This attribute is used to determine when an interface is flagged as Lost.	 (connected results only)					

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	Level 1 (ARP)	Level 2 (Ping)	Level 3 (Nmap)	Level 4 (Nmap+Host)	Satellite	Returned for managed interfaces
Last Managed The last time that the interface was returned as a managed interface. This attribute is used to determine when an interface is flagged as Lost.	✗	✗	✗	✗	✗	✓
Last Seen The last time the interface was found with any discovery method. All discovery methods return this value. This attribute is not used to determine when an interface is flagged as Lost.	✓	✓	✓	✓	✓	✓
Locations Location as determined by the uploaded CSV file. Locations are applied to interfaces after they are imported by a discovery method. For more information, see Locations on page 89.	✓	✓	✓	✓	✓	✓
MAC	✓	✓	✓	✓	✓ 2	✓
Manually Ignored An interface that was marked as ignored by clicking **Ignore**.	✓	✓	✓	✓	✓	✓
Manufacturer The network card manufacturer, derived from the MAC address. If the MAC address is randomized, unknown, or unrecognized, this value	✓	✓	✓	✓	✓ 2	✓

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	Level 1 (ARP)	Level 2 (Ping)	Level 3 (Nmap)	Level 4 (Nmap+Host)	Satellite	Returned for managed interfaces
appears as `Unknown`.						
NAT IP Address	✓	✓	✓	✓	✓	✓
Open Ports The most common 1000 ports that get scanned by Nmap, or from a list of ports provided in the discovery method configuration.	✗	✗	✗	✓	✓	✓
OS Generation `Nmap (Level 4)`: An estimate of OS version from OS fingerprinting. Consider carefully if you choose OS Generation as a label condition. OS generation is not displayed for managed interfaces.	✗	✗	✗	✓	✓	✗
OS Platform The operating system.	✗	✓ 3	✗	✓	✓	✓
Profile Name The profiles that found the interface.	✓	✓	✓	✓	✓	✓
Unmanageable Unmanageable interfaces are on devices that cannot run the Tanium Client. By default, unmanageable interfaces have an OS Platform that is not supported by the Tanium Client, defined by the **Unmanageable OS Platforms** predefined automatic label.	✗	✗	✗	✓	✓	✓

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	Level 1 (ARP)	Level 2 (Ping)	Level 3 (Nmap)	Level 4 (Nmap+Host)	Satellite	Returned for managed interfaces

[1] First managed returned only for interfaces that changed from unmanaged to managed

[2] For satellite scans, `MAC` and `Manufacturer` are returned only if the scan runs on the same network as the satellite

[3] Solaris endpoints do not detect OS platform

Note: The following information might appear on the **Interfaces** page for interfaces that were discovered through the deprecated centralized scanning method: **Cloud Provider**, **Cloud Tags**, **Discovery Method-AwsApi**, **Discovery Method-CentralizedNmap**, **Image Id**, **Instance Id**, **Instance State**, **Instance Type**, **Launch Time**, **Owner ID**, **Virtual Network Id**, and **Zone**. For accurate results, only refer to information provided by supported scan types.

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Reference: Discover columns for Connect exports

Use the following table to map the columns sent through Connect export jobs to the columns in the Discover database.

Tip: For more information about descriptions of the Discover columns, see Reference: Data returned by profile type on page 133.

Discover columns sent through Connect export jobs

Discover column	Exported name through Connect	Description
Computer Id	TaniumComputerId	Custom Tanium ID for endpoints that have the Tanium Client. If an endpoint does not have the Tanium Client, the value is 0.
Discovery Method	Arp Ndp Nmap Ping Connected	For each discovery method, the value is TRUE if Discover found the endpoint using that method. Otherwise, the value is FALSE. For any given endpoint, more than one discovery method can be TRUE.
First Managed	FirstManagedAt	The first time that the managed endpoint responded to Discover saved questions as part of the Discover import cycle.
First Seen	CreatedAt	The time when the endpoint was initially discovered and created in the Discover database.
Hostname	HostName	The hostname of the endpoint.
IP Address	IpAddress	The IP address of the endpoint.

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Discover column	Exported name through Connect	Description
Is Locally Administered MAC	IsLocallyAdministeredMAC	Boolean to indicate if the MAC address is assigned by a network administrator or software.
Is Managed	Managed	Boolean to indicate if the endpoint is managed.
Labels	Labels	Any custom labels assigned to the endpoint. For more information about labels, see Labels on page 94 .
Last Discovered	LastDiscoveredAt	The most recent time the endpoint was detected by a Discover scan.
Last Managed	LastManagedAt	For interfaces that were previously managed, this column contains the most recent time that the endpoint had the Tanium Client and answered Discover saved questions.
Last Seen	UpdatedAt	The time when the Discover scan detected a change in any column definition value for the endpoint.
Locations	Locations	The location of the endpoint. This field only populates if you import locations in Discover . For more information about locations, see Locations on page 89 .
MAC	MacAddress	The MAC address of the endpoint.
Manufacturer	MacOrganization	The organization to which the MAC address belongs.
NAT IP Address	NatIpAddress	The NAT IP address, if applicable.
Open Ports	Ports	Open ports on the endpoint.
OS Generation	OsGeneration	Specific generation or version of the operating system on the endpoint.
OS Platform	Os	The operating system on the endpoint.
Profile Name	Profile	The scan profile that discovered the endpoint. For more information about profiles, see Configure profile for satellite scan on page 70 .
SatelliteDecId	SatelliteDecId	The ID of the satellite that discovered the interface during a satellite scan, if any.

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Discover column	Exported name through Connect	Description
SatelliteName	SatelliteName	The name of the satellite that discovered the interface during a satellite scan, if any.
SatelliteNmap	SatelliteNmap	Boolean to indicate if the endpoint was discovered by a satellite Nmap scan.
Unmanageable	Unmanageable	Possible values: • 0 - Managed or manageable (automatically marked) • 1 - Unmanageable (automatically marked) • 2 - Manageable (manually marked) • 3 - Unmanageable (manually marked)

Note: Exported data in Connect also contains an **id** column. This column does not appear in the Discover workbench.

Note: The exported data might contain the following Discover columns for interfaces that were discovered through the deprecated centralized scanning method: **Cloud Provider**, **Cloud Tags**, **Discovery Method-AwsApi**, **Discovery Method-CentralizedNmap**, **Image Id**, **Instance Id**, **Instance State**, **Instance Type**, **Launch Time**, **Owner ID**, **Virtual Network Id**, and **Zone**. For accurate results, only use data provided by supported scan types.

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Reference: Gateway examples for Discover

Tanium Gateway provides a GraphQL API integration point for Tanium solutions, including Discover. Discover queries and mutations retrieve information about Discover labels and interfaces, create or delete labels, or update labels applied to interfaces.

Discover requests have the following feature-specific dependencies at the specified minimum versions:

- Discover 4.8.298 or later is required to submit a request involving Discover interfaces or labels (`mutation.discoverInterfaceAddLabel`, `mutation.discoverInterfaceRemoveLabel`, `mutation.discoverLabelCreate`, `mutation.discoverLabelDelete`, `query.discoverInterface`, `query.discoverInterfaces`, `query.discoverLabel`, `query.discoverLabels`).

For more information about how to view additional Gateway example syntax, see Tanium Gateway User Guide: Reference: Filter syntax and Tanium Gateway User Guide: Reference: Gateway examples.

Discover query filter syntax

Discover queries that request labels or interfaces using `discoverLabels` or `discoverInterfaces` support the `path` and `value` filter fields.

For more information on syntax, see `FieldFilter` in the **Documentation Explorer** pane of the query explorer.

Single column

You can filter on field values. Define a filter object using one of the following syntaxes:

```
discoverInterfaces(filter:
  {
    path: "field-path",
    op: "operator-value",
    value: "field-value"
```

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```
  }
)
```

```
discoverLabels(filter:
  {
    path: "field-path",
    op: "operator-value",
    value: "field-value"
  }
)
```

Use dot notation for sub-fields not at the root level.

For example, the following query retrieves labels with a `createdTime value` greater than `2023-01-01` and returns the labels:

```
query exampleGetLabels {
  discoverLabels(filter: {path: "createdTime", op: GT, value: "2023-01-01"}) {
    edges {
      node {
        name
        type
        createdTime
        modifiedTime
      }
    }
  }
}
```

Multiple columns

You can filter on multiple Discover-related columns. Define a filter object using one of the following syntaxes:

```
discoverInterfaces(filter:
  {any: boolean,
    filters: [
      {path: "field-path-1", op: "operator-1", value: "filter-value-1"},
      {path: "field-path-2", op: "operator-2", value: "filter-value-2"},
      {path: "field-path-n", op: "operator-n", value: "filter-value-n"}
    ]
  }
)
```

```
discoverLabels(filter:
  {any: boolean,
    filters: [
      {path: "field-path-1", op: "operator-1", value: "filter-value-1"},
      {path: "field-path-2", op: "operator-2", value: "filter-value-2"},
      {path: "field-path-n", op: "operator-n", value: "filter-value-n"}
    ]
  }
)
```

Use dot notation for sub-fields not at the root level.

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For example, the following query retrieves interfaces associated with the label `Example_label` and an osPlatform of `Linux`, and returns matching interfaces:

```
query exampleGetInterfaces {
  discoverInterfaces(
    filter: {any: false, filters: [{path: "labels.name", op: EQ, value: "Example_label"},
{path: "osPlatform", op: EQ, value: "Linux"}]}
  ) {
    edges {
      node {
        id
        labels
        osPlatform
      }
    }
  }
}
```

Add Discover labels to Discover interfaces

`(mutation.discoverInterfaceAddLabel)`

About this task

The `discoverInterfaceAddLabel` mutation requires Discover 4.8.298 or later and the **Discover Tag write** permission.

The following mutation manually adds one or more standard labels to one or more specified interfaces. This mutation does not support automatic evaluation to apply labels.

```
mutation exampleAddInterfaceLabel($labelNames: [String!]!, $interfaceIDs: [ID!]!) {
  discoverInterfaceAddLabel(input: {names: $labelNames, interfaceIDs: $interfaceIDs}) {
    success
    error {
      message
    }
    cursor
  }
}
```

Include the interface variables in the **Variables** panel or in your variables dictionary:

```
{
  "labelNames": [
    "example_label",
    "example_label_2"
  ],
  "interfaceIDs": [
    12345,
    67890
  ]
}
```

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Example response:

```
{
  "data": {
    "discoverInterfaceAddLabel": {
      "success": true,
      "error": null,
      "cursor": null
    }
  }
}
```

If your mutation request returns a cursor, the label is not yet added to the interfaces that you specify. You can pass the cursor as input to a subsequent `discoverInterfaceAddLabel` mutation to determine the status of the initial request.

```
mutation exampleAddInterfaceLabel($labelNames: [String!]!, $interfaceIDs: [ID!]!) {
  discoverInterfaceAddLabel(
    input: {
      labelNames: $labelNames,
      interfaceIDs: $interfaceIDs
      cursor: "Mg=="
    }
  ) {
    success
    error {
      message
    }
    cursor
  }
}
```

Create a Discover label

`(mutation.discoverLabelCreate)`

About this task

The `discoverLabelCreate` mutation requires Discover 4.8.298 or later and the **Discover Tag Write** permission. If you define at least one Discover location, this also requires the **Discover Location Permissions Write** permission.

Note: Using Gateway, you can create a standard-type Discover label that you use to manually mark interfaces. You cannot create an automatic-type label that applies to interfaces based on configured criteria. To configure an automatic label to apply to interfaces, see Tanium Discover User Guide - Automatically label interfaces.

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The following mutation creates a standard-type label.

```
mutation exampleCreateInterfaceLabel($labelName: String!) {
  discoverLabelCreate(input: {name: $labelName}) {
    label {
      name
      type
      createdTime
      modifiedTime
    }
    error {
      message
    }
  }
}
```

Include the name variable in the **Variables** panel or in your variables dictionary:

```
{
  "labelName": "Example_label"
}
```

Example response:

```
{
  "data": {
    "discoverLabelCreate": {
      "label": {
        "name": "Example_label",
        "type": "STANDARD",
        "createdTime": "2023-03-29T13:42:22.760Z",
        "modifiedTime": "2023-03-29T13:42:22.760Z"
      },
      "error": null
    }
  }
}
```

Delete a Discover label by name

`(mutation.discoverLabelDelete)`

About this task

The `discoverLabelDelete` mutation requires Discover 4.8.298 or later and the **Discover Tag write** permission. If you define at least one Discover location, this also requires the **Discover Location Permissions write** permission.

The following mutation deletes a label. If you delete a label, the label is removed from all the related interfaces.

```
mutation exampleDeleteInterfaceLabel($labelName: String!) {
```

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```
  discoverLabelDelete(ref: {name: $labelName}) {
    name
    error {
      message
    }
  }
}
```

Include the name variable in the **Variables** panel or in your variables dictionary:

```
{
  "labelName": "Example_label"
}
```

Example response:

```
{
  "data": {
    "discoverLabelDelete": {
      "name": "Example_label",
      "error": null
    }
  }
}
```

Get a Discover interface by ID

`(query.discoverInterface)`

About this task

The `discoverInterface` query requires Discover 4.8.298 or later and the **Discover Asset read** permission. If you define at least one Discover location, this also requires either the **User Group read** permission (returns only matching interfaces to which the user group membership allows access) or the **Discover Location Permissions write** permission (returns all matching interfaces).

Discover versions earlier than 4.11 do not support the `locallyAdministeredMacAddress` field to determine whether a MAC address is locally administered.

The following query retrieves the Discover interface with the ID of `123`.

```
query exampleGetSpecificInterface($id: ID!) {
  discoverInterface(ref: {id: $id}) {
    id
    macAddress
    manufacturer
    locallyAdministeredMacAddress
    hostnames
    ipAddresses
    labels {
      name
```

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```
      type
      createdTime
      modifiedTime
    }
    osPlatform
    openPorts
    discoveryMethods
    lastSeenTime
    computerId
    natIPAddresses
    osGeneration
    profiles {
      name
    }
    firstSeenTime
    firstManagedTime
    lastManagedTime
    lastDiscoveredTime
    isManaged
    isUnmanageable
    isIgnored
    satellites {
      id
      name
    }
  }
}
```

Include the ID variable in the **Variables** panel or in your variables dictionary:

```
{
  "id": "123"
}
```

Example response:

```
{
  "data": {
    "discoverInterface": {
      "id": "123",
      "macAddress": "01-23-45-67-89-AB",
      "manufacturer": "Microsoft Corporation",
      "locallyAdministeredMacAddress": false,
      "hostnames": [
        "USB-81.lan.oxfordcs.com"
      ],
      "ipAddresses": [
        "192.2.2.0"
      ],
      "labels": [
        {
          "name": "M11_Unmanaged_not_Unmanageable",
          "type": "AUTOMATIC",
          "createdTime": "2022-03-15T13:08:37.177Z",
          "modifiedTime": "2022-03-15T13:08:37.177Z"
        },
        {
          "name": "Client Install Pending Fixed",
          "type": "AUTOMATIC",
          "createdTime": "2024-06-25T17:39:34.843Z",
          "modifiedTime": "2024-06-25T17:39:34.843Z"
```

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```
        },
        {
          "name": "cM_4351_repro",
          "type": "AUTOMATIC",
          "createdTime": "2024-09-30T17:33:10.861Z",
          "modifiedTime": "2024-09-30T17:33:10.861Z"
        },
        {
          "name": "dain_test",
          "type": "STANDARD",
          "createdTime": "2024-11-21T18:44:53.944Z",
          "modifiedTime": "2024-11-21T18:44:53.944Z"
        }
      ],
      "osPlatform": "Windows",
      "openPorts": [
        135,
        139,
        445,
        3389,
        5357,
        49152,
        49153,
        49154,
        49155,
        49156,
        49167
      ],
      "discoveryMethods": [
        "ARP",
        "CONNECTED",
        "PING",
        "NMAP"
      ],
      "lastSeenTime": "2026-03-25T18:39:06.401Z",
      "computerId": null,
      "natIPAddresses": [
        "198.50.20.200"
      ],
      "osGeneration": null,
      "profiles": [
        {
          "name": "Bad CIDR profile"
        },
        {
          "name": "FXF - Discover Test"
        },
        {
          "name": "SS-NMAP-HomeLab"
        }
      ],
      "firstSeenTime": "2022-09-28T14:16:10.000Z",
      "firstManagedTime": null,
      "lastManagedTime": null,
      "lastDiscoveredTime": "2026-03-25T18:39:06.397Z",
      "isManaged": false,
      "isUnmanageable": false,
      "isIgnored": false,
      "satellites": []
    }
  }
}
```


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Get multiple Discover interfaces

(query.discoverInterfaces)

About this task

The `discoverInterfaces` query requires Discover 4.8.298 or later and the **Discover Asset read** permission. If you define at least one Discover location, this also requires either the **User Group read** permission (returns only matching interfaces to which the user group membership allows access) or the **Discover Location Permissions write** permission (returns all matching interfaces).

Discover versions earlier than 4.11 do not support the `locallyAdministeredMacAddress` field to determine whether a MAC address is locally administered.

The following query retrieves the first `2` Discover interfaces.

```
query exampleGetInterfaces($first: Int) {
  discoverInterfaces(first: $first) {
    edges {
      node {
        id
        macAddress
        manufacturer
        locallyAdministeredMacAddress
        hostnames
        ipAddresses
        labels {
          name
          type
          createdTime
          modifiedTime
        }
        osPlatform
        openPorts
        discoveryMethods
        lastSeenTime
        computerId
        natIPAddresses
        osGeneration
        profiles {
          name
        }
        firstSeenTime
        firstManagedTime
        lastManagedTime
        lastDiscoveredTime
        isManaged
        isUnmanageable
        isIgnored
        satellites {
          id
          name
        }
      }
```

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```
    }
  }
}
```

Include the pagination variable in the **Variables** panel or in your variables dictionary:

```
{
  "first": 2
}
```

Example response:

```
{
  "data": {
    "discoverInterfaces": {
      "edges": [
        {
          "node": {
            "id": "1234",
            "macAddress": "01-23-45-67-89-AB",
            "manufacturer": "VMware, Inc.",
            "locallyAdministeredMacAddress": false,
            "hostnames": [],
            "ipAddresses": [
              "192.0.20.10"
            ],
            "labels": [
              {
                "name": "Example label 1",
                "type": "AUTOMATIC",
                "createdTime": "2020-05-20T14:48:30.259Z",
                "modifiedTime": "2025-07-07T19:58:02.976Z"
              },
              {
                "name": "Example label 2",
                "type": "AUTOMATIC",
                "createdTime": "2022-03-15T13:08:37.177Z",
                "modifiedTime": "2022-03-15T13:08:37.177Z"
              },
              {
                "name": "Example label 3",
                "type": "STANDARD",
                "createdTime": "2026-03-17T13:10:32.462Z",
                "modifiedTime": "2026-03-17T13:10:32.462Z"
              }
            ],
            "osPlatform": "Windows",
            "openPorts": null,
            "discoveryMethods": [
              "ARP",
              "CONNECTED",
              "PING",
              "NMAP",
              "SATELLITE_NMAP",
              "NDP"
            ],
            "lastSeenTime": "2026-03-25T18:39:06.401Z",
            "computerId": null,
            "natIPAddresses": [
              "198.50.100.10"
            ],
```

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```
          "osGeneration": "10",
          "profiles": [
            {
              "name": "Example profile 1"
            },
            {
              "name": "Example profile 2"
            },
            {
              "name": "Example profile 3"
            }
          ],
          "firstSeenTime": "2021-07-20T01:28:49.000Z",
          "firstManagedTime": "2023-08-14T12:09:41.000Z",
          "lastManagedTime": "2024-01-12T16:47:20.796Z",
          "lastDiscoveredTime": "2026-03-25T16:39:05.325Z",
          "isManaged": false,
          "isUnmanageable": false,
          "isIgnored": false,
          "satellites": [
            {
              "id": "b58a6c1a-79c6-46e5-903d-7975974ef349",
              "name": "satellite-ubuntu24-intel-test1"
            }
          ]
        }
      },
      {
        "node": {
          "id": "4567",
          "macAddress": "CD-EF-01-23-45-67",
          "manufacturer": "VMware, Inc.",
          "locallyAdministeredMacAddress": false,
          "hostnames": [],
          "ipAddresses": [
            "192.10.20.30"
          ],
          "labels": [
            {
              "name": "Example label 2",
              "type": "AUTOMATIC",
              "createdTime": "2022-03-15T13:08:37.177Z",
              "modifiedTime": "2022-03-15T13:08:37.177Z"
            },
            {
              "name": "Example label 4",
              "type": "AUTOMATIC",
              "createdTime": "2024-03-28T19:05:55.605Z",
              "modifiedTime": "2024-03-28T19:05:55.605Z"
            },
            {
              "name": "Example label 5",
              "type": "AUTOMATIC",
              "createdTime": "2024-06-25T17:39:34.843Z",
              "modifiedTime": "2024-06-25T17:39:34.843Z"
            }
          ],
          "osPlatform": "Windows",
          "openPorts": [
            22,
            135,
            139,
            445,
            3389,
```


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```
              5357
            ],
            "discoveryMethods": [
              "ARP",
              "CONNECTED",
              "PING",
              "NMAP",
              "NDP"
            ],
            "lastSeenTime": "2026-03-25T18:39:06.401Z",
            "computerId": null,
            "natIPAddresses": [
              "20.70.20.190"
            ],
            "osGeneration": "10",
            "profiles": [
              {
                "name": "Example profile 2"
              },
              {
                "name": "Example profile 4"
              },
              {
                "name": "Example profile 5"
              }
            ],
            "firstSeenTime": "2022-08-05T16:48:40.000Z",
            "firstManagedTime": null,
            "lastManagedTime": null,
            "lastDiscoveredTime": "2026-03-25T18:39:06.397Z",
            "isManaged": false,
            "isUnmanageable": false,
            "isIgnored": false,
            "satellites": []
          }
        }
      ]
    }
  }
}
```


Get a Discover label by name

`(query.discoverLabel)`

About this task

The `discoverLabel` query requires Discover 4.8.298 or later and the **Discover Asset read** permission.

The following query retrieves the Discover label with the name of `Example_label`.

```
query exampleGetSpecificLabel($name: String!) {
  discoverLabel(ref: {name: $name}) {
    name
    type
    createdTime
```

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```
    modifiedTime
    interfaceCounts {
      managed
      unmanaged
      total
      unmanageable
    }
  }
}
```

Include the name variable in the **Variables** panel or in your variables dictionary:

```
{
  "name": "Example_label"
}
```

Example response:

```
{
  "data": {
    "discoverLabel": {
      "name": "Example label 1",
      "type": "AUTOMATIC",
      "createdTime": "2024-07-23T18:51:58.230Z",
      "modifiedTime": "2024-07-23T18:51:58.230Z",
      "interfaceCounts": {
        "managed": 0,
        "unmanaged": 0,
        "total": 0,
        "unmanageable": 0
      }
    }
  }
}
```

Get multiple Discover labels

`(query.discoverLabels)`

About this task

The `discoverLabels` query requires Discover 4.8.298 or later and the **Discover Asset read** permission.

The following query retrieves the first `2` Discover labels.

```
query exampleGetLabels($first: Int) {
  discoverLabels(first: $first) {
    edges {
      node {
        name
        type
        createdTime
        interfaceCounts {
```

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```
          managed
          unmanaged
          total
          unmanageable
        }
        modifiedTime
      }
    }
  }
}
```

Include the pagination variable in the **Variables** panel or in your variables dictionary:

```
{
  "first": 2
}
```

Example response:

```
{
  "data": {
    "discoverLabels": {
      "edges": [
        {
          "node": {
            "name": "Example label 1",
            "type": "AUTOMATIC",
            "createdTime": "2024-07-23T18:51:58.230Z",
            "interfaceCounts": {
              "managed": 0,
              "unmanaged": 0,
              "total": 0,
              "unmanageable": 0
            },
            "modifiedTime": "2024-07-23T18:51:58.230Z"
          }
        },
        {
          "node": {
            "name": "Example label 2",
            "type": "AUTOMATIC",
            "createdTime": "2020-05-20T14:48:30.268Z",
            "interfaceCounts": {
              "managed": 0,
              "unmanaged": 0,
              "total": 0,
              "unmanageable": 0
            },
            "modifiedTime": "2020-05-20T14:48:30.268Z"
          }
        }
      ]
    }
  }
}
```

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Remove Discover labels from Discover interfaces

`(mutation.discoverInterfaceRemoveLabel)`

About this task

The `discoverInterfaceRemoveLabel` mutation requires Discover 4.8.298 or later and the **Discover Tag write** permission.

The following mutation manually removes one or more standard labels from one or more specified interfaces.

```
mutation exampleRemoveInterfaceLabel($labelNames: [String!]!, $interfaceIDs: [ID!]!) {
  discoverInterfaceRemoveLabel(input: {names: $labelNames, interfaceIDs: $interfaceIDs}) {
    success
    error {
      message
    }
    cursor
  }
}
```

Include the interface variables in the **Variables** panel or in your variables dictionary:

```
{
  "labelNames": [
    "example_label",
    "example_label_2"
  ],
  "interfaceIDs": [
    12345,
    67890
  ]
}
```

Example response:

```
{
  "data": {
    "discoverInterfaceRemoveLabel": {
      "success": true,
      "error": null,
      "cursor": null
    }
  }
}
```

If your mutation request returns a cursor, the label is not yet removed from the interfaces that you specify. You can pass the cursor as input to a subsequent `discoverInterfaceRemoveLabel` mutation to determine the status of the initial request.

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```
mutation exampleRemoveInterfaceLabel($labelNames: [String!]!, $interfaceIDs: [ID!]!) {
  discoverInterfaceRemoveLabel(
    input: {
      labelNames: $labelNames,
      interfaceIDs: $interfaceIDs
      cursor: "Mg=="
    }
  ) {
    success
    error {
      message
    }
    cursor
  }
}
```

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