



Tanium™ Network Quarantine User Guide

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Network Quarantine overview

With Network Quarantine, you can use your existing Network Access control (NAC) solution to control the communication of both managed and unmanaged endpoints (controlling unmanaged endpoints requires Tanium™ Discover).

NAC devices

With the Network Quarantine service, Tanium products can communicate with a NAC to isolate endpoints. Network Quarantine is supported for use with Cisco Identity Services Engine (ISE) to block by MAC address.

For more information, see [Configuring NACs on page 17](#).

Automated rules

If you are using ISE, you can create automated rules to find endpoints that need to be quarantined. Automated rules use saved questions to identify endpoints that are causing violations. You can then quarantine these endpoints. For more information, see [Quarantine with automated rules on page 23](#).

Product integration

Tanium Discover

When the Network Quarantine service is configured with Tanium Discover, you can also quarantine a MAC address directly from the Interfaces pages. For more information, see the [Tanium Discover User Guide](#).

Tanium™ Connect

Network Quarantine generates events when the NAC starts or stops, or when an endpoint is quarantined. You can send notifications about these events to destinations such as email, security information and event management (SIEM) software, or a file by creating a connection in Connect. For more information, see [Configuring notifications on page 26](#).

Getting started

Step 1: Install Network Quarantine

Install Network Quarantine.

For more information, see [Installing Network Quarantine on page 12](#).

Step 2: Configure a NAC

Configure a network access control (NAC) solution.

For more information, see [Configuring NACs on page 17](#).

Step 3: (Optional) Configure notifications

You can optionally configure notifications about NAC start and stop events or quarantine events.

For more information, see [Configuring notifications on page 26](#).

Step 4: Quarantine endpoints

Quarantine endpoints.

For more information, see [Quarantining endpoints on page 23](#).

If you set up integration with Tanium™ Discover, you can also quarantine endpoints from the Discover workbench.

Network Quarantine requirements

Review the requirements before you install and use Network Quarantine.

Tanium dependencies

Component	Requirement
Tanium™ Core Platform	Version 7.3.314.4250 or later
Tanium solutions	The following solutions are optional, but Network Quarantine requires the specified minimum versions to work with them: <ul style="list-style-type: none">• Tanium Connect 4.7.4 or later• Tanium Discover 2.7.0 or later

Tanium Module Server

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

Endpoints

Supported internet protocols

Network Quarantine supports only IPv4 addresses.

Supported operating systems

Same as Tanium Client support. See [Tanium Client Management User Guide: Client version and host system requirements](#).

Third-party software

Network Quarantine is supported for use with Cisco Identity Services Engine (ISE) 2.2 - 2.7 with Cisco Platform Exchange Grid (pxGrid) installed.



Cisco ISE 3.x or later and pxGrid 2.0 or later are not supported.

Host and network security requirements

Specific ports and processes are needed to run Network Quarantine.

Ports

The following ports are required for Network Quarantine communication.



















Source	Destination	Port	Protocol	Purpose
Module Server	Module Server (loopback)	17467	TCP	Internal purposes; not externally accessible.
	Cisco ISE	5222	TCP	Access to Cisco ISE, unless specified otherwise.

User role requirements

The following tables list the role permissions required to use Network Quarantine. To review a summary of the predefined roles, see [Set up Network Quarantine users on page 14](#).

For more information about role permissions and associated content sets, see [Tanium Console User Guide: Managing RBAC](#).

Network Quarantine user role permissions

Permission	Network Quarantine Administrator	Network Quarantine Approver	Network Quarantine Rule Author	Network Quarantine User	Network Quarantine Read Only User	Network Quarantine Service Account
Network Quarantine Certificates View, add or update configured certificates	 READ WRITE					
Network Quarantine Nacauditlog View audit log	 READ	 READ	 READ	 READ		
Network Quarantine NACs View, add or update configured NACs	 READ WRITE	 READ	 READ	 READ		

Network Quarantine user role permissions (continued)

Permission	Network Quarantine Administrator	Network Quarantine Approver	Network Quarantine Rule Author	Network Quarantine User	Network Quarantine Read Only User	Network Quarantine Service Account
Network Quarantine Quarantines View, quarantine or unquarantine quarantined endpoints	 READ WRITE	 READ	 READ	 READ WRITE	 READ	
Network Quarantine Requests View, approve and deny quarantine requests	 APPROVE READ DENY	 APPROVE READ DENY	 APPROVE READ DENY			
Network Quarantine Rules View and edit rules and targets; use service account to evaluate rules; start rule evaluation process	 READ WRITE RUN	 READ	 READ WRITE RUN			 EVALUATE
Network Quarantine Runs View rule evaluation runs	 READ	 READ	 READ			
Network Quarantine Settings View and configure service settings	 READ WRITE	 READ	 READ WRITE	 READ	 READ	
Network Quarantine View Network Quarantine shared service	 SHOW	 SHOW	 SHOW	 SHOW	 SHOW	

Provided Network Quarantine administration and platform content user role permissions

Permission	Role type	Network Quarantine Administrator	Network Quarantine Approver	Network Quarantine Rule Author	Network Quarantine User	Network Quarantine Read Only User	Network Quarantine Service Account
Computer Group	Administration	✓ READ	✓ READ	✓ READ	✗	✗	✓ READ
User	Administration	✓ READ	✗	✓ READ	✗	✗	✗
Plugin	Platform content	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE	✓ READ EXECUTE
Saved Question	Platform content	✓ READ	✗	✓ READ	✗	✗	✓ READ WRITE
Sensor	Platform content	✓ READ	✗	✓ READ	✗	✗	✓ READ

Optional roles for Network Quarantine

Role	Enables
Connect User	<p>For signed in user:</p> <ul style="list-style-type: none"> Configure connections for Network Quarantine event notifications <p>For service account:</p> <ul style="list-style-type: none"> Send Network Quarantine event notifications

For more information and descriptions of content sets and permissions, see the [Tanium Core Platform User Guide: Users and user groups](#).

Installing Network Quarantine

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

- **Automatic configuration with default settings** (Tanium Core Platform 7.4.2 or later only): Network Quarantine 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 Network Quarantine, see [Import Network Quarantine with default settings on page 12](#).
- **Manual configuration with custom settings**: After installing Network Quarantine, you must manually configure required settings. Select this option only if Network Quarantine requires settings that differ from the recommended default settings. For more information, see [Import Network Quarantine with custom settings on page 12](#).

Before you begin

- Read the [release notes](#).
- Review the [Network Quarantine requirements on page 8](#).
 - To import the Network Quarantine solution, you must be assigned the Administrator reserved role or a role that has the **Import Signed Content** permission.
 - To configure the Network Quarantine action group, you must be assigned the Administrator reserved role, Content Administrator reserved role, or a role that has the **Write Action Group** permission.

Import Network Quarantine with default settings

When you import Network Quarantine with automatic configuration, the following default setting is configured:

Setting	Default value
Service account	The service account is set to the account that you used to import the shared service. Configuring a unique service account for each Tanium solution is an extra security measure to consider in consultation with the security team of your organization. See Configure service account on page 14 .

To import Network Quarantine and configure default settings, see [Tanium Console User Guide: Import all modules and services](#). After the import, verify that the correct version is installed: see [Verify Network Quarantine version on page 13](#).

Import Network Quarantine with custom settings

To import Network Quarantine without automatically configuring default settings, be sure to clear the **Apply All Tanium recommended configurations** check box while performing the steps in [Tanium Console User Guide: Import, re-import, or update specific solutions](#). After the import, verify that the correct version is installed: see [Verify Network Quarantine version on page 13](#).


To configure the service account, see [Configure service account on page 14](#).

Upgrade Network Quarantine

For the steps to upgrade Network Quarantine, see [Tanium Console User Guide: Import, re-import, or update specific solutions](#). After the upgrade, verify that the correct version is installed: see [Verify Network Quarantine version on page 13](#).

Verify Network Quarantine version

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

1. Refresh your browser.
2. From the Main menu, go to **Administration > Shared Services > Network Quarantine** to open the Network Quarantine **Overview** page.
3. To display version information, click Info .

Configuring Network Quarantine

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

Configure Network Quarantine

Configure service account

The service account is a user that runs several background processes for Network Quarantine. This user requires the following roles and access:

- **Network Quarantine Service Account** role
- **Connect User** role, to send notifications with Connect
- Access to the saved questions that are used for the automated rules

For more information about Network Quarantine permissions, see [User role requirements on page 9](#).



If you imported Network Quarantine with default settings, the service account is set to the account that you used to perform the import. Configuring a unique service account for each Tanium solution is an extra security measure to consider in consultation with the security team of your organization.

1. On the Network Quarantine **Overview** page, click Settings and then click **Service Account** if needed.
2. Provide a user name and password, and then click **Save**.

Set up Network Quarantine users

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

To review specific permissions for each role, see [User role requirements on page 9](#).

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

Network Quarantine Administrator

Assign the **Network Quarantine Administrator** role to users who manage the configuration and deployment of Network Quarantine functionality, including configuration of certificates and NACs.

This role can perform the following tasks:

- Configure Network Quarantine service settings, including viewing, adding and updating configured certificates
- View, add and update NACs
- View, quarantine or unquarantine quarantined endpoints
- View, approve and deny quarantine requests

- View and edit automated rules and targets
- Start the rule evaluation process
- View the audit log

Network Quarantine Approver

Assign the **Network Quarantine Approver** role to users who manage the configuration and deployment of Network Quarantine functionality but do not need to configure certificates or NACs.

This role can perform the following tasks:

- View Network Quarantine service settings, except for configured certificates
- View configured NACs
- View quarantined endpoints
- View, approve and deny quarantine requests
- View automated rules and targets
- View rule evaluation runs
- View the audit log

Network Quarantine Rule Author

Assign the **Network Quarantine Rule Author** role to users who manage automated rules for and quarantine requests for Network Quarantine.

This role can perform the following tasks:

- View Network Quarantine service settings, except for configured certificates
- View configured NACs
- View quarantined endpoints
- View, approve and deny quarantine requests
- View and edit automated rules and targets
- Start the rule evaluation process and view rule evaluation runs
- View the audit log

Network Quarantine User

Assign the **Network Quarantine User** role to users who need to view Network Quarantine details and quarantine or unquarantine endpoints.

This role can perform the following tasks:

- View Network Quarantine service settings, except for configured certificates
- View configured NACs
- View, quarantine or unquarantine quarantined endpoints
- View, approve and deny quarantine requests
- View the audit log

Network Quarantine Read Only User

Assign the **Network Quarantine Read Only User** role to users who need to view quarantined endpoints.

This role can perform the following tasks:

- View Network Quarantine service settings, except for configured certificates and NACs
- View configured NACs
- View quarantined endpoints

Network Quarantine Service Account

Assign the **Network Quarantine Service Account** role to the account that configures system settings for Network Quarantine.

This role can perform several background processes for Network Quarantine, including evaluating rules.

Configuring NACs

Configure Cisco Identity Services Engine (ISE) pxGrid NAC. After a NAC is configured, you can begin to quarantine endpoints.

To create or edit NAC configurations, you must have the Network Quarantine Administrator role. See [User role requirements on page 9](#).

Cisco Identity Services Engine (ISE) pxGrid NAC

To configure a Cisco ISE pxGrid NAC, you can either use self-signed or server-signed certificates. After you configure the NAC, you can quarantine specific MAC addresses with the Adaptive Network Control (ANC) policies that are configured in ISE.

You can sign in to ISE with the user interface or with SSH.

Create server and client self-signed certificates

ISE can work with self-signed certificates for both server authentication and client authentication.

1. Get a self-signed certificate from the server. In the ISE UI, go to **Administration > Certificates > System Certificates**. If you need the certificate, export the public certificate from the UI.
2. Generate a self-signed certificate for the client.
 - a. See [Cisco Communities: Deploying Certificates with pxGrid](#).
 - b. In the ISE UI, go to **Administration > Certificates > System Certificates** and upload the certificate into the **Trusted Certificates** section.
3. If you changed pxGrid certificates, restart the ISE server. See [Cisco ISE Client Commands: Start/stop commands](#).
4. Make sure that you have the server certificate, client certificate, and client key to create the certificate configuration in Network Quarantine.

Generate a signed certificate

Generate a pxGrid certificate to provide as the certificate authority (CA) when you configure the NAC in Network Quarantine.

1. In the pxGrid UI, go to **Administration > pxGrid Services > Certificates**. Generate a single certificate (without a certificate signing request). For the Common Name (CN), use any identifying value, such as IP address. Choose the PEM download format. Enter a password for the certificate.
2. Click **Create** to download a ZIP file that contains the server certificate. Extract this ZIP file to get the server certificate that you need to configure in Network Quarantine.

Configure certificates in Network Quarantine

Create the client and server certificates in Network Quarantine.

1. From the Network Quarantine menu, go to **Configuration > Certificates**.
2. Create the client certificate.
 - a. Click **Create Certificate**.
 - b. Specify a name for the certificate.
 - c. For **Certificate Type**, select **Client Certificate**.
 - d. Upload the client certificate and key files.
 - e. If required, provide the passphrase for the private key file.
 - f. Click **Save**.

Create Certificate * Required

Details

Name *

Certificate Type *

Client Certificate ▼

Certificate *

iseSample1.crt X

Upload the server certificate and any CA certificates (if using self-signed certificates).

Key *

iseSample1.key X

(Cisco ISE pxGrid only) Upload a private key for client authentication

Passphrase

(Optional) Passphrase for the private key file

3. Create the server certificate.
 - a. Click **Create Certificate**.
 - b. Specify a name for the certificate.
 - c. For **Certificate Type**, select **Server Certificate / Certificate Chain**.
 - d. Upload the pxGrid certificate that you created in the pxGrid web admin UI. Click **Save**.

Create Certificate * Required

Details

Name *

Certificate Type *

Server Certificate / Certificate Chain ▼

Certificate(s) *

Upload Certificate File

rootSample.crt X

Upload the server certificate and any CA certificates (if using self-signed certificates).

Save **Cancel**

Configure pxGrid NAC

1. From the Network Quarantine menu, go to **Configuration > NACs > Create NAC**.
2. Specify a display name.
3. For the NAC Type, select **Cisco ISE pxGrid NAC**.

4. In the **Options** section, select **Start on Service Startup** to restart the NAC when the Network Quarantine service restarts. Select **Enabled** to enable and start the NAC.

Create Network Access Controller * Required

Details

Name *

Displays in menus. Use an easily identifiable name.

NAC Type *

pxGrid based NAC that communicates with Cisco Identity Services Engine (ISE)

Options

Start on Service Startup
When selected, the NAC restarts if the Network Quarantine service is restarted.

Enabled
When selected, enable this NAC and allow it to be started.

5. Specify the Cisco ISE pxGrid NAC connection details.
 - a. Specify the **pxGrid User Name** and **pxGrid URI**.
Do not modify the default **pxGrid Bind Resource**, **pxGrid Domain**, or **pxGrid Capabilities** values without guidance from Tanium or Cisco Support.
 - b. If you are using a self-signed certificate, clear **Check Server Identity**.
 - c. For the **Client Certificate**, select the client certificate that you configured.
 - d. For the **Server Certificate Chain**, select the server certificate that you configured.

6. (Optional) Update the **IQ Timeout** and **Refresh Interval** settings.
7. Start the NAC. Select the NAC from the list and click **Start**.

To edit NAC settings, you must stop the NAC first.

What to do next

After you configure a NAC in Network Quarantine, you can begin to quarantine endpoints. See [Quarantining endpoints on page 23](#).

Quarantining endpoints

After you configure a NAC, you can configure how endpoints are quarantined. You can set up automated rules to quarantine based on the results of a saved question on a computer group, or you can select individual MAC addresses.

Quarantine with automated rules

Automated rules use saved questions to query a computer group for a set of conditions. If an endpoint meets the conditions, it is added to the list of violations. From the violations page, you can choose to quarantine the endpoint by MAC address.

Add saved questions to Network Quarantine content set

Before you configure automated rules, you must decide on a saved question with which you are going to select the endpoints to quarantine. For example, you might create a saved question that returns endpoints that do not have a certain patch installed.

The saved question you use for a rule must meet the following requirements:

- Be in the Network Quarantine Content Set content set
- Return columns for the Computer Name and MAC Address sensors
- Be accessible by the service account user that you configured for the Network Quarantine service

To add saved question to the Network Quarantine Content Set, you can either choose the content set when you create the saved question, or you can edit a saved question to add it to the content set. For more information, see [Tanium Core Platform User Guide: Edit a saved question](#).

Create an automated rule

1. From the Network Quarantine menu, click **Automated Rules > Add rule**.
2. Enter a name for the rule, and choose the saved question on which you want to base the rule.

Create Automated Rule * Required

Rule Details
Select a saved question from which to build your rule.

Name *
Out of Compliance

Saved Question *
NQS Out of Compliance

Get Computer Name and MAC Address from all machines
Saved questions in the Network Quarantine content set that return Computer Name and Mac address.

Enablement Status
 Enabled

Rule Settings
 Use Global Defaults

Frequency *
6 Hours

Endpoint Results Limit *
100

Target
Select computer groups or set targeting criteria to identify computers.

Select Computer Groups

Computer Groups
1 selected

Computer Group	Quarantine Method	Remove
All Computers	quarantine on Mock Cisco ISE	X

Save **Cancel**

3. Select **Enabled** to enable the rule to be run on the specified frequency.
4. To use custom settings for frequency and endpoint results limit, clear **Use Global Defaults**, and enter the custom values.
5. Choose targets for the rule. Configure one or more computer groups that you want to target. For each computer group, indicate which configured NAC you want to use for the quarantine method.
6. Click **Save**.
7. Rules are run on the configured frequency. To run all of the rules now, click **Run Now**.

View and act on violations


After the rules have been run, a list of computers that meet the conditions of the saved questions are returned. To view all violations, go to the **Violations** tab in the **Issues** section of the Network Quarantine **Overview** page.

- To approve the quarantine of a device that is violating a defined rule, select the endpoint and click **Approve**.
- To keep the endpoint connected, select the endpoint and click **Deny**.
- To generate a CSV list of endpoints, select the endpoints and click **Export**.



If you want to configure automated approval of quarantines, contact Tanium Support for more information.

Configure global rule settings

By default, rules are evaluated every 6 hours, and if more than 100 endpoints are returned for a rule, an event is generated. To change these global settings from the Network Quarantine **Overview** page, click Settings , then the **Automated Rules** tab.

Quarantine an individual MAC address








1. On the **Quarantine** tab in the **Issues** section of the Network Quarantine **Overview** page, click **Create Quarantine**.
2. Use the available options to quarantine endpoints:
 - To quarantine endpoints with a Cisco Identity Services Engine (ISE) pxGrid NAC, enter a list of MAC addresses on which to apply the quarantine and choose the quarantine method to use. The Adaptive Network Control (ANC) policies are configured in ISE.
3. Click **Save**.
4. The MAC addresses that you indicated are listed in the **Quarantine** section of the Network Quarantine **Overview** page. To disable the quarantine on the endpoint, select the MAC address and click **Remove Quarantine**.

Quarantine in Discover

If you have Tanium Discover installed, you can also quarantine and remove quarantine for a MAC address. Go to an **Interfaces** page and select the rows that relate to the endpoints that you want to quarantine, then click **Quarantine** and choose the NAC that you want to use to quarantine the endpoint.

Quarantined MAC addresses are marked as blocked.

For more information, see [Tanium Discover User Guide](#).

Selected Items: 2 of 6					
	MAC	IP Address	Labels	Last Seen	
<input checked="" type="checkbox"/>	 00-50-56-F8-1E-04	192.168.157.254	Morrisvi...	2018-06-06 02:59:29	
<input type="checkbox"/>	 00-0C-29-CE-68-35	192.168.157.111	Emeryville	2018-06-27 22:47:11	
<input checked="" type="checkbox"/>	 00-50-56-EA-5B-19 	192.168.157.2		2018-06-27 22:47:11	
<input type="checkbox"/>	 00-0C-29-FB-92-EC	192.168.157.131		2018-06-27 22:47:11	
<input type="checkbox"/>	 00-50-56-F4-46-DD	192.168.157.254		2018-06-27 22:47:11	
<input type="checkbox"/>	 00-50-56-C0-00-08	192.168.157.1		2018-06-27 22:47:11	

Configuring notifications

You can create a connection in Tanium Connect to send a notification when the NAC starts or stops, when an endpoint is quarantined, when a rule match is returned for an endpoint, when a rule is approved or denied, and when rule match violation occurs. You can send these notifications to destinations such as email, SIEM, or Splunk.

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, and the Network Quarantine service account must have the **Connect User** role to send notifications. For more information about configuring user roles, see [Tanium Core Platform User Guide: Assign roles to a user](#).

Configure notifications in Connect

1. Create the connection.
 - a. From the Main menu, go to **Modules > Connect** to open the Connect **Overview** page. Click **Create Connection**.
 - b. Specify a name and description for the connection.

2. Configure the data source.
 - a. In the **Configuration** section, select the **Event** as the **Source**.
 - b. Choose the **Network Quarantine** event group, then select the events for which you want to generate a notification.

Configuration

Source

Event

Forwards events from Tanium solutions, such as Tanium™ Detect and Tanium™ Discover.

Event Group:

Network Quarantine

NAC Stopped
Fired when a NAC connector shuts down

NAC Started
Fired when a NAC connector starts

Address Quarantined
Fired when an address is quarantined

Address Unquarantined
Fired when an address is unquarantined

Rule Match
Fired when an automated rule matches an endpoint

Rule Request Approval or Denial
Fired when a quarantine request is approved or denied

Rule Match Limit Violation
Fired when a rule has been evaluated and has returned too many records.

3. 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 the [Tanium Connect User Guide](#). Complete the required fields and click **Create Connection**.

Troubleshooting Network Quarantine

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


Collect logs

The information is saved as a compressed ZIP file that you can download with your browser.

1. From the Network Quarantine **Overview** page, click Help , then click the **Troubleshooting** tab.
2. In the **Troubleshooting ZIP File** section, click **Download the File**.
A `networkquarantine-support.zip` file downloads to the local download directory.
3. Contact Tanium Support to determine the best option to send the ZIP file. For more information, see [Contact Tanium Support on page 29](#).

Tanium Network Quarantine maintains logging information in `networkquarantineNV.log` files in the `\Program Files\Tanium\Tanium Module Server\services\networkquarantine-files` directory. A new log file gets created each time the file size reaches 1 MB.

Configure log levels

1. From the Network Quarantine **Overview** page, click Help , then click the **Troubleshooting** tab.
2. In the **Logging Level** section, select the log level that you want to enable.

View audit log

The audit log contains all of the quarantine and unquarantine actions that occur on the configured NACs.

1. From the Network Quarantine menu, click **Audit log**.
2. You can filter the log by a specific MAC address, action, NAC name, and so on.
3. Click **Export** to save the current view of the audit log to a CSV file.

Fix SASLError not-authorized error


Problem

When a client connects to ISE with a certificate, ISE remembers that certificate and pins the certificate to the client. If that client then attempts to connect with a different client certificate, the connection is rejected with a `SASL:not-authorized` error.

Solution

1. In the ISE UI, go to **Administration > pxGrid Services > All Clients**.
2. Select the user and delete the session.
3. In Network Quarantine, start the NAC.

Uninstall Network Quarantine

1. From the Main menu, go to **Administration > Configuration > Solutions**.
2. In the **Content** section, select the **Network Quarantine** row.
3. Click Delete Selected  and then click **Uninstall** to complete the process.

Contact Tanium Support

To contact Tanium Support for help, sign in to <https://support.tanium.com>.