



Monitoring Cisco Tetration Analytics

Beta Version

Cisco: Tetration PowerPack version 101, revision 2

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Chapter

1

Introduction

Overview

This manual describes how to monitor Cisco Tetration Analytics devices in the ScienceLogic platform using the Dynamic Applications in the *Cisco: Tetration PowerPack*.

The following sections provide an overview of Cisco Tetration Analytics and the *Cisco Tetration PowerPack*:

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What is Cisco Tetration Analytics?

Cisco Tetration Analytics provides complete visibility into data center applications. It uses unsupervised machine learning techniques to generate application behavior insights and automated white-list policies for granular segmentation.

What Does the Cisco: Tetration PowerPack Monitor?

To monitor Tetration Analytics using the ScienceLogic platform, you must install the *Cisco: Tetration* PowerPack. This PowerPack includes:

- A sample credential you can use to create credentials to connect to Tetration Analytics clusters
- Dynamic Applications to discover, model, and collect configuration data for Tetration Analytics clusters and component devices
- Device Classes for each of the Tetration Analytics components the ScienceLogic platform monitors

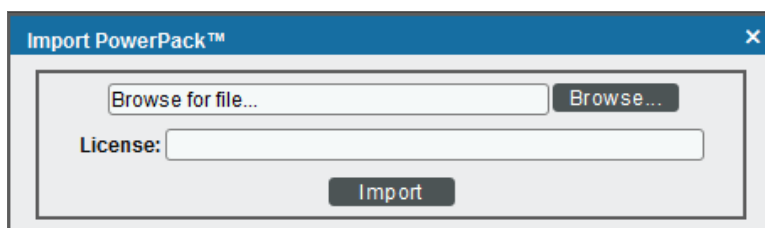
Installing the Cisco: Tetration PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Cisco: Tetration* PowerPack.

TIP: By default, installing a new version of a PowerPack overwrites all content in that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the **System Administration** manual.)

To download and install a PowerPack:

1. Download the PowerPack from the [ScienceLogic Customer Portal](#).
2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*.
4. The **Import PowerPack** dialog box appears:



5. Click the **[Browse]** button and navigate to the PowerPack file.
6. When the **PowerPack Installer** modal page appears, click the **[Install]** button to install the PowerPack.

NOTE: If you exit the **PowerPack Installer** modal page without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPack Manager** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal page. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Configuring Cisco Tetration Analytics Monitoring

Overview

The following sections describe how to configure and discover Cisco Tetration Analytics devices for monitoring by the ScienceLogic Platform using the *Cisco: Tetration PowerPack*:

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Configuring Cisco Tetration Analytics for Monitoring

Before you can use the ScienceLogic platform to monitor Cisco Tetration Analytics, you must first generate a Tetration Analytics API key and secret password. You will then use this API key and secret password to [create a Basic/Snippet credential](#) that enables the platform to communicate with and monitor Tetration Analytics clusters.

To configure Cisco Tetration Analytics for monitoring:

1. Log in to the Cisco Tetration Analytics web interface with a **site_admin** or **customer_support** account.
2. Go to **Settings > API Keys**, and then click **[Create API Key]**.

3. Type a **Description** and select the checkbox of the appropriate API key capability.



4. Click [**Create**].
5. The API key appears. Copy and save the key value.

NOTE: API keys are visible only to the user that created them.

6. The secret password appears. Copy and save the password value.

WARNING: The secret password value appears only once and cannot be recovered. If you forget or lose the password value, you must generate a new API key with a different password value.

Creating a Basic/Snippet Credential for Cisco Tetration Analytics

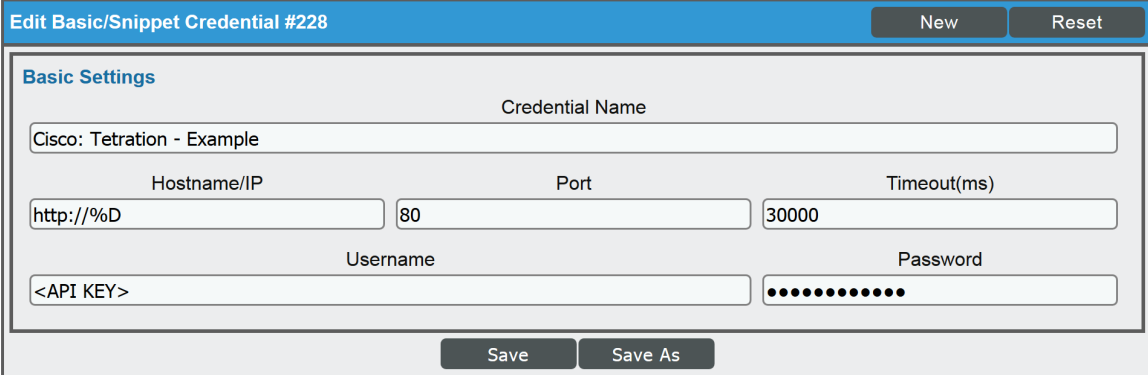
To monitor Cisco Tetration Analytics in the ScienceLogic platform, you must configure a Basic/Snippet credential that the platform can use to discover and communicate with Tetration Analytics clusters.

The *Cisco: Tetration PowerPack* includes an example credential (*Cisco: Tetration - Example*) that you can use to create a Basic/Snippet credential for monitoring Tetration Analytics.

To configure a credential for Cisco Tetration Analytics:

1. Go to the **Credential Management** page (System > Manage > Credentials).

2. Click the wrench icon () for *Cisco: Tetration - Example*. The **Credential Editor** page appears:



The screenshot shows the 'Edit Basic/Snippet Credential #228' window. It has a blue header with 'New' and 'Reset' buttons. The main area is titled 'Basic Settings' and contains several input fields: 'Credential Name' (Cisco: Tetration - Example), 'Hostname/IP' (http://%D), 'Port' (80), 'Timeout(ms)' (30000), 'Username' (<API KEY>), and 'Password' (masked with dots). At the bottom are 'Save' and 'Save As' buttons.

3. Supply values in the following fields:
 - **Credential Name**. Type a new name for the credential.
 - **Hostname/IP**. Type "http://%D".
 - **Username**. Type the Tetration Analytics API key *you previously generated*.
 - **Password**. Type the Tetration Analytics API secret password you previously generated.
4. Click the **[Save As]** button.

Discovering Cisco Tetration Analytics Devices

To monitor Cisco Tetration Analytics devices, you must run a discovery session to discover the Tetration Analytics clusters that the ScienceLogic platform will use as the root devices for monitoring the devices.

Several minutes after the discovery session has completed, the Dynamic Applications in the *Cisco: Tetration* PowerPack should automatically align to the cluster root devices and then discover, model, and monitor the remaining component devices.

To discover the Tetration Analytics clusters that you want to monitor:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
2. In the **Discovery Control Panel**, click the **[Create]** button. The **Discovery Session Editor** page appears.

3. In the **Discovery Session Editor** page, define values in the following fields:

The screenshot shows the 'Discovery Session Editor | Editing Session [41]' window. It is divided into several sections:


- Identification Information:** Fields for Name (set) and Description.
- IP and Credentials:**
 - IP Address/Hostname Discovery List:** A text box containing 'frase.cisco.com' and a 'Browse for file...' button.
 - SNMP Credentials:** A list of credentials including 'Cisco SNMPv2 - Example', 'Cisco SNMPv3 - Example', 'Cisco: CSP SNMP Port 161 Example', 'Cisco: CSP SNMP Port 1610 Examp', 'Cisco: UCSC SNMP Example', and 'csp161'.
 - Other Credentials:** A list of credentials including 'Cisco: CSP set', 'Cisco: MSE Credential', 'Cisco: Tetration', 'Cisco: Tetration - Example', 'Citrix XenServer - Example', and 'Cloudkick - Example'.
- Detection and Scanning:**
 - Initial Scan Level:** [System Default (recommended)]
 - Scan Throttle:** [System Default (recommended)]
 - Port Scan All IPs:** [System Default (recommended)]
 - Port Scan Timeout:** [System Default (recommended)]
 - Detection Method & Port:** A list including '[Default Method]', 'UDP: 161 SNMP', 'TCP: 1 - tcpmux', 'TCP: 2 - compressnet', 'TCP: 3 - compressnet', and 'TCP: 5 - rie'.
 - Interface Inventory Timeout (ms):** 600000
 - Maximum Allowed Interfaces:** 10000
 - Bypass Interface Inventory:**
- Basic Settings:**
 - Discover Non-SNMP:**
 - Model Devices:**
 - DHCP:**
 - Duplication Protection:**
 - Collection Server PID:** 7
 - Organization:** [System]
 - Add Devices to Device Group(s):** A list of device groups including 'None', 'Cloud Center', 'cloudcenterenant', 'cloudcentererm', 'DC-AMER-GDC-Live Ticketing-NonTCA-Group', 'DC-AMER-GDC-Live Ticketing-TCA-Group', 'DC-APJC-GDC-Live Ticketing-NonTCA-Group', 'DC-APJC-GDC-Live Ticketing-TCA-Group', 'DC-EMEAR-GDC-Live Ticketing-NonTCA-Group', 'DC-EMEAR-GDC-Live Ticketing-TCA-Group', and 'FDN-AMER-GDC-Live Ticketing-NonTCA-Group'.
 - Apply Device Template:** [Choose a Template]

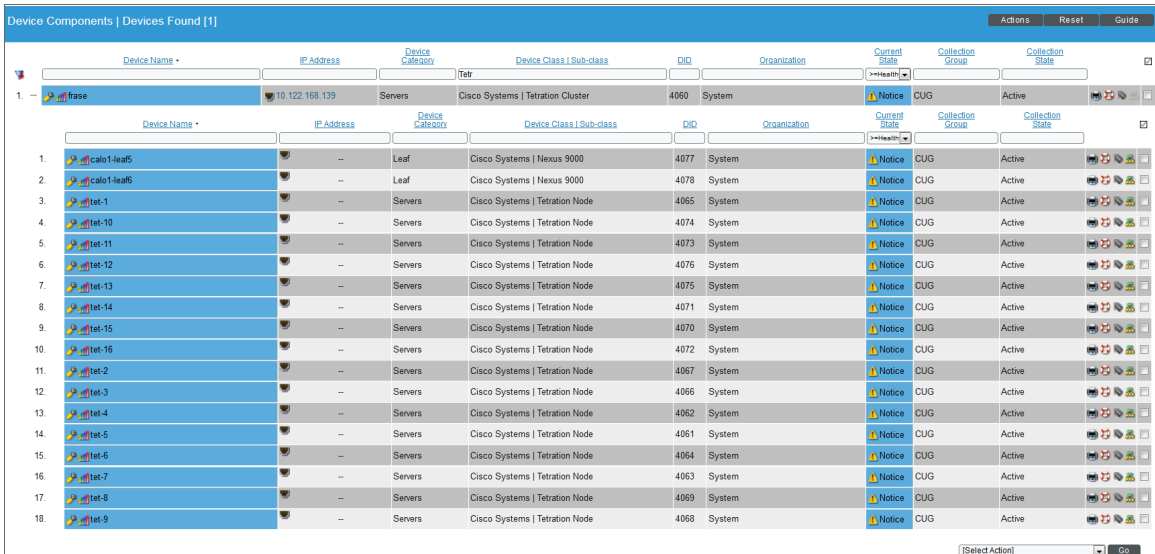
At the bottom, there are 'Save' and 'Save As' buttons, and a 'Log All' checkbox.

- **IP Address/Hostname Discovery List.** Enter the IP address(es) or hostname(s) for the cluster root device(s) you want to discover.
 - **Other Credentials.** Select the **Basic/Snippet credential you created** for the device clusters.
 - **Discover Non-SNMP.** Select this checkbox.
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
 5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.
 6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (⚡) to run the discovery session.
 7. The **Discovery Session** window appears. When the cluster root device(s) are discovered, you can click the device icon (🖨️) to view the **Device Properties** page for each device.

Viewing Cisco Tetration Analytics Component Devices

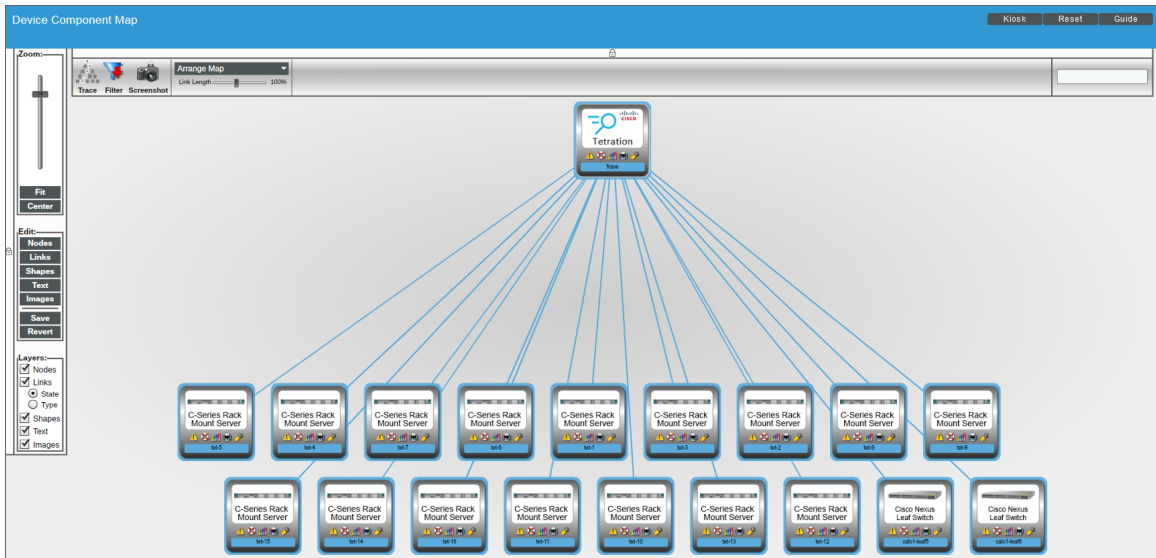
In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view Cisco Tetration Analytics component devices in the following places in the user interface:

- The **Device View** modal page (click the bar-graph icon  for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device.
- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the Tetration Analytics component devices, find the Tetration Analytics cluster device and click its plus icon (+):



Device Name	IP Address	Device Category	Device Class Sub-class	DID	Organization	Current State	Collection Group	Collection State
1. -- tase	10.122.168.139	Servers	Cisco Systems Tetration Cluster	4060	System	Notice	CUG	Active
1. calo1-leaf5	--	Leaf	Cisco Systems Nexus 9000	4077	System	Notice	CUG	Active
2. calo1-leaf6	--	Leaf	Cisco Systems Nexus 9000	4078	System	Notice	CUG	Active
3. tet-1	--	Servers	Cisco Systems Tetration Node	4065	System	Notice	CUG	Active
4. tet-10	--	Servers	Cisco Systems Tetration Node	4074	System	Notice	CUG	Active
5. tet-11	--	Servers	Cisco Systems Tetration Node	4073	System	Notice	CUG	Active
6. tet-12	--	Servers	Cisco Systems Tetration Node	4076	System	Notice	CUG	Active
7. tet-13	--	Servers	Cisco Systems Tetration Node	4075	System	Notice	CUG	Active
8. tet-14	--	Servers	Cisco Systems Tetration Node	4071	System	Notice	CUG	Active
9. tet-15	--	Servers	Cisco Systems Tetration Node	4070	System	Notice	CUG	Active
10. tet-16	--	Servers	Cisco Systems Tetration Node	4072	System	Notice	CUG	Active
11. tet-2	--	Servers	Cisco Systems Tetration Node	4067	System	Notice	CUG	Active
12. tet-3	--	Servers	Cisco Systems Tetration Node	4066	System	Notice	CUG	Active
13. tet-4	--	Servers	Cisco Systems Tetration Node	4062	System	Notice	CUG	Active
14. tet-5	--	Servers	Cisco Systems Tetration Node	4061	System	Notice	CUG	Active
15. tet-6	--	Servers	Cisco Systems Tetration Node	4064	System	Notice	CUG	Active
16. tet-7	--	Servers	Cisco Systems Tetration Node	4063	System	Notice	CUG	Active
17. tet-8	--	Servers	Cisco Systems Tetration Node	4069	System	Notice	CUG	Active
18. tet-9	--	Servers	Cisco Systems Tetration Node	4068	System	Notice	CUG	Active

- The **Component Map** page (Views > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. The ScienceLogic platform automatically updates the **Component Map** as new component devices are discovered. The platform also updates each map with the latest status and event information. To view the map, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the **Views** manual.



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