



Monitoring Cisco Tetration Analytics

Beta Version

Cisco: Tetration PowerPack version 103

Table of Contents

Introduction	3
What is Cisco Tetration Analytics?	4
What Does the Cisco: Tetration PowerPack Monitor?	4
Installing the Cisco: Tetration PowerPack	4
Configuration and Discovery	6
Configuring Cisco Tetration Analytics for Monitoring	6
Creating a Basic/Snippet Credential for Cisco Tetration Analytics	7
Creating a Basic/Snippet Credential for Cisco Tetration Analytics in the SL1 Classic User Interface	8
Discovering Cisco Tetration Analytics Devices	9
Viewing Cisco Tetration Analytics Component Devices	10

Chapter



1

Introduction

Overview

This manual describes how to monitor Cisco Tetration Analytics devices in SL1 using the Dynamic Applications in the *Cisco: Tetration PowerPack*.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon ().
- To view a page containing all of the menu options, click the Advanced menu icon ().

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

This chapter covers the following topics:

What is Cisco Tetration Analytics?	4
What Does the Cisco: Tetration PowerPack Monitor?	4
Installing the Cisco: Tetration PowerPack	4

NOTE: ScienceLogic provides this documentation for the convenience of ScienceLogic customers. Some of the configuration information contained herein pertains to third-party vendor software that is subject to change without notice to ScienceLogic. ScienceLogic makes every attempt to maintain accurate technical information and cannot be held responsible for defects or changes in third-party vendor software. There is no written or implied guarantee that information contained herein will work for all third-party variants. See the End User License Agreement (EULA) for more information.

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 SL1, 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 SL1 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 from a previous version of 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.)

IMPORTANT: The minimum required MySQL version is 5.6.0.

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the [ScienceLogic Support Site](#).
2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **[Actions]** button and choose *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPacks** page.

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



Chapter

2

Configuration and Discovery

Overview

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon ().
- To view a page containing all of the menu options, click the Advanced menu icon ().

The following sections describe how to configure and discover Cisco Tetration Analytics devices for monitoring by SL1 using the *Cisco: Tetration PowerPack*:

This chapter covers the following topics:

Configuring Cisco Tetration Analytics for Monitoring	6
Creating a Basic/Snippet Credential for Cisco Tetration Analytics	7
Discovering Cisco Tetration Analytics Devices	9
Viewing Cisco Tetration Analytics Component Devices	10

Configuring Cisco Tetration Analytics for Monitoring

Before you can use SL1 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 SL1 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.

API Keys

Create API Key

Description

Description (optional)

SW sensor management: API to configure/monitor status of SW sensors

HW sensor management: API to configure/monitor status of HW sensors

Queries on flows: API to query flows in Tetration cluster

At least one capability must be selected.

Create Cancel

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 SL1, you must configure a Basic/Snippet credential that SL1 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.

NOTE: If you are using an SL1 system prior to version 11.1.0, the new user interface does not include the **Duplicate** option for sample credential(s). ScienceLogic recommends that you use [the classic user interface and the Save As button](#) to create new credentials from sample credentials. This will prevent you from overwriting the sample credential(s).

To configure a credential for Cisco Tetration Analytics:

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

2. Locate the **Cisco: Tetration - Example** sample credential, click its **[Actions]** icon (⋮) and select **Duplicate**. A copy of the credential, called **Cisco: Tetration - Example copy** appears.
3. Click the **[Actions]** icon (⋮) for the **Cisco: Tetration - Example copy** credential and select **Edit/Test**. The **Edit Credential** modal page appears:

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.


NOTE: If you would like to test your credential using the Credential Tester panel, click **[Save & Test]**. For detailed instructions on using the Credential Tester panel, see the *Testing a Credential* section in the *Discovery and Credentials* manual.

Creating a Basic/Snippet Credential for Cisco Tetration Analytics in the SL1 Classic User Interface

To monitor Cisco Tetration Analytics in SL1, you must configure a Basic/Snippet credential that SL1 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.
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 SL1 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.

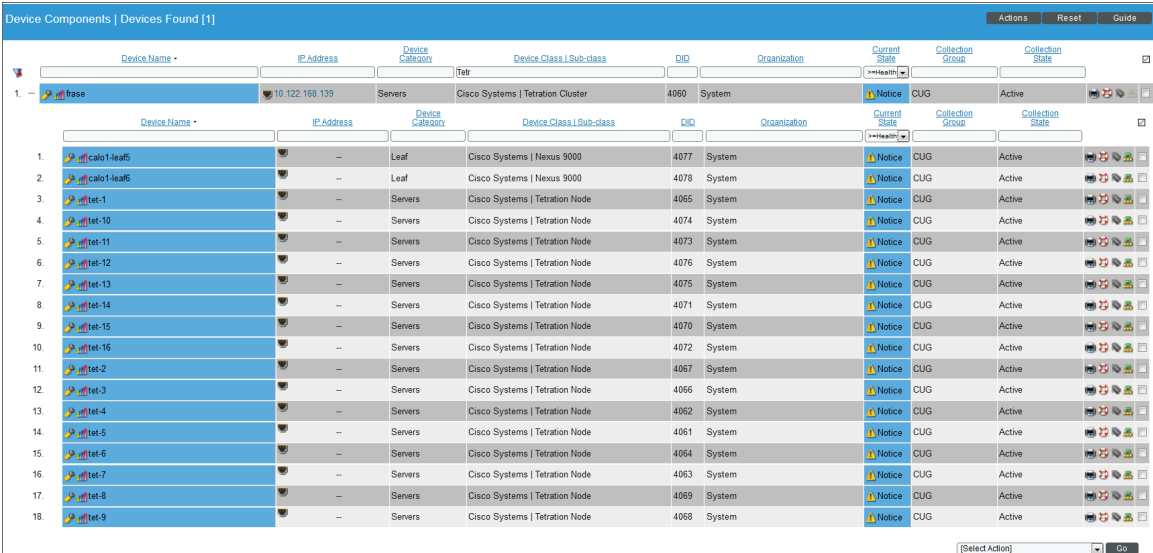
To discover the Tetration Analytics clusters that you want to monitor:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic 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:
 - **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:

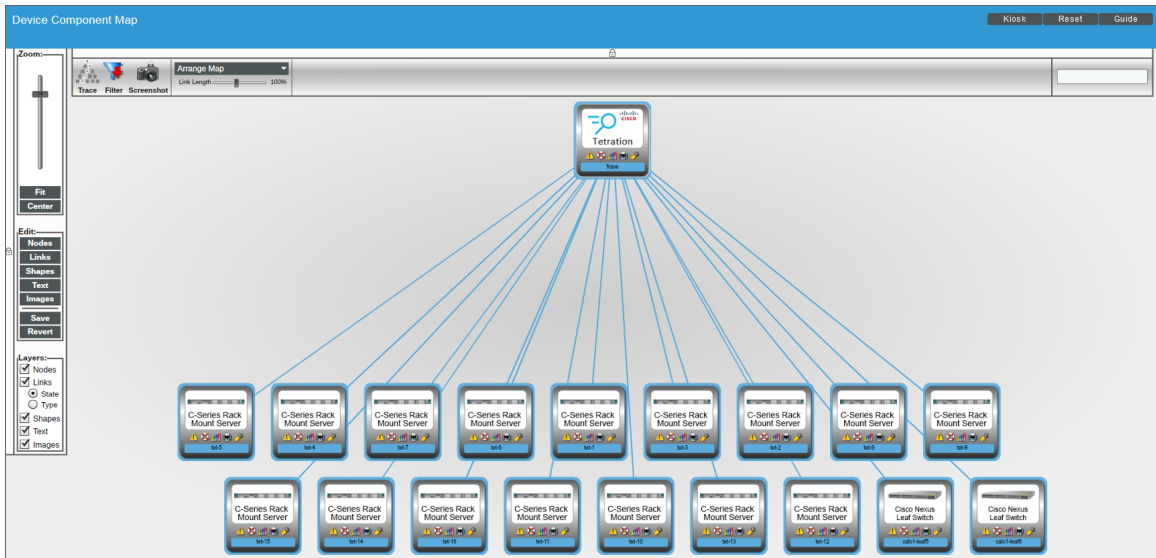
- The **Device View** modal page (click the bar-graph icon  for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device.
- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 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 (+):



The screenshot shows a web interface titled "Device Components | Devices Found [1]". It features a table with columns for Device Name, IP Address, Device Category, Device Class | Sub-class, DID, Organization, Current State, Collection Group, and Collection State. The table lists 18 devices, including a root device 'frase' and 17 child devices under the 'Servers' category. Each device row includes a bar graph icon and a plus sign icon for further actions.

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

- The **Component Map** page (Classic Maps > 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. SL1 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.



© 2003 - 2024, ScienceLogic, Inc.

All rights reserved.

LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC™ AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic™ has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic™ assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic™ may also make improvements and / or changes in the products or services described in this Site at any time without notice.

Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic™
- EM7™ and em7™
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management™

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com. For more information, see <https://sciencelogic.com/company/legal>.

ScienceLogic

800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010