

Monitoring Cisco Viptela

Cisco: Viptela PowerPack version 102

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Chapter

Introduction

Overview

This manual describes how to monitor Cisco Viptela devices in SL1 using the Cisco Viptela PowerPack.

The following sections provide an overview of Cisco Viptela devices and the Cisco Viptela PowerPack:

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What is Cisco Viptela?

Cisco Viptela provides a cloud-based, software-defined wide area networking (SD-WAN) solution. Cisco Viptela includes advanced routing, segmentation, and security capabilities for enterprise networks. Cisco Viptela's cloud-based network management and orchestration technologies help you deploy and manage the latest WAN architectures.

What Does the Cisco: Viptela PowerPack Monitor?

To monitor Cisco Viptela resources using the ScienceLogic platform, you must install the Cisco ViptelaPowerPack. This PowerPack enables you to discover, model, and collect data about Viptela resources.

The Cisco Viptela PowerPack includes:

- Example credentials that you can use as templates to create SOAP/XML credentials to connect to Viptela
- The "Cisco: Viptela vManage Template" for aligning all dynamic applications to the root component device
- Dynamic Applications to discover, model, and monitor performance metrics or collect configuration data for the following Cisco Viptela resources:
 - vManage
 - vSmart Controller
 - vEdge Routers
 - vBond Orchestrator
- Device Classes for each type of Cisco Viptela device monitored:
 - vBond Orchestrator
 - vEdge
 - vEdge Cloud
 - vEdge 100
 - vEdge 1000
 - vEdge 5000
 - vEdge 2000
 - vEdge 100-B
 - vEdge 100-M
 - vEdge 100-WM
 - vEdge Container
 - vManage
 - vSmart Controller

- Event Policies and corresponding alerts that are triggered when Viptela resources meet certain status criteria
- Dashboards that display information about Cisco Viptela component devices

Installing the Cisco Viptela PowerPack

Before completing the steps in this manual, you must import and install the latest version of the Cisco Viptela 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.)

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:

Import PowerPack™		×
Browse for file License:	Browse	

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

NOTE: If you exit the **PowerPack Installer** modal 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. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuration and Discovery

Overview

The following sections describe how to configure and discover Cisco Viptela resources for monitoring by SL1 using the Cisco Viptela PowerPack:

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Prerequisite for Monitoring Cisco Viptela

To configure the SL1 system to monitor Cisco Viptela resources using the Cisco Viptela PowerPack, you must first know the credentials (username and password) for a user account that has access to the Cisco Viptela system. The user account must have read-all access.

Configuring a Credential for Cisco Viptela

To configure SL1 to monitor Cisco Viptela devices, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the Cisco Viptela PowerPack) to use your Cisco Viptela user account to retrieve information from the Cisco Viptela devices.

The PowerPack includes an example SOAP/XML credential that you can edit for your own use.

To configure a SOAP/XML credential to access Cisco Viptela:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Locate the Viptela Credential Example SOAP/XML credential, and then click its wrench icon (*P*). The Edit SOAP/XML Credential modal page appears:

Edit SOAP/XML Credential #80	New Reset
Basic Settings Profile Name Content Encoding Method HTTP Version Viptela Credential Example [[text/xml] [POST] [[HTTP/1.1]] URL [http(s)://Host:Port/Path %D = Aligned Device Address %N = Aligned Device Host Name] Inttps://URL:443 HTTP Auth User HTTP Auth Password Timeout (seconds) <username> [10</username>	Soap Options Embedded Password [%P] Embed Value [%1] Embed Value [%2] False Embed Value [%3] Embed Value [%4]
Proxy Settings Hostname/IP Port User Password CURL Options CAINFO CAPATH CLOSEPOLICY CONNECTTIMEOUT COOKIEFILE	HTTP Headers + Add a header
Save Save As	

- 3. Complete the following fields:
 - Profile Name. Type a name for the Cisco Viptela credential.
 - Content Encoding. Select text/xml.
 - Method. Select POST.
 - HTTP Version. Select HTTP/1.1.
 - URL. Type the URL and port for the Cisco Viptela system, using the following format: https://URL:443. For example, https://my.viptela.system:443.
 - HTTP Auth User. Type the Cisco Viptela account username.
 - HTTP Auth Password. Type the Cisco Viptela account password.
 - Timeout (seconds). Type "10".
- 4. For the remaining fields, use the default values, and then click the [Save As] button.

Creating a Cisco Viptela Virtual Device

Because the Cisco Viptela service does not have a static IP address, you cannot discover a Cisco Viptela device using discovery. Instead, you must create a **virtual device** that represents the Cisco Viptela service. A virtual device is a user-defined container that represents a device or service that cannot be discovered by SL1. You can use the virtual device to store information gathered by policies or Dynamic Applications.

To create a virtual device that represents your Cisco Viptela service:

- 1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
- 2. Click the **[Actions]** button and select Create Virtual Device from the menu. The **Virtual Device** modal page appears:

Virtual Device			×
Create Virtual Device		Reset	
Device Name	[192.0.2.0]		
Organization	System	\sim	
Device Class	Cisco Systems Viptela vManage	\sim	
Collector	CUG	\sim	
	Add		
			_

- 3. Complete the following fields:
 - **Device Name**. Type the system IP address of the Cisco Viptela vManage device. The ScienceLogic API request uses this IP address instead of the device name.
 - **Organization**. Select the organization for this device. The organization you associate with the device limits the users that will be able to view and edit the device. Typically, only members of the organization will be able to view and edit the device.
 - Device Class. Select Cisco Systems Viptela | vManage.
 - Collector. Select the collector group that will monitor the device.
- 4. Click **[Add]** to create the virtual device.

Aligning Dynamic Applications to the Virtual Device

A *device template* allows you to save a device configuration and apply it to multiple devices. The *Cisco Viptela*PowerPack includes the "Cisco: Viptela vManage Template," which enables the SL1 to align all Dynamic Applications to the root component device.

Configuring the Device Template

Before you can use the "Cisco: Viptela vManage Template," you need to configure the template so that each dynamic application in the template aligns with the **credential you created earlier**.

To configure the Viptela device template:

- 1. Go to the **Configuration Templates** page (Registry > Devices > Templates).
- 2. Locate the "Cisco: Viptela vManage Template" and click its wrench icon (***). The **Device Template Editor** modal page appears.
- 3. Click the [Dyn Apps] tab. The Editing Dynamic Application Subtemplates page appears:

Device Template Editor Editing Dynam	ic Application Subtemplates (Click field lal	bels to enable/disable them)		New Reset
Templa	te Name Cisco: Viptela vManage Template			
Config Interface	CV Policies Port Policies	Svc Policies Proc Policies	Dyn Apps	Logs
Subtemplate Selection 1. App: Cisco: Viptela Component Cc 2. App: Cisco: Viptela Events	Template Application Behavior All devices (align new applications and updated)	Align Dynamic Application With ate collection states)		V
App: Cisco: Viptela vManage Device App: Cisco: Viptela vManage Con Cisco: Viptela vSmart Contro App: Cisco: Viptela vSmart Contro App: Cisco: Viptela vEdge Contain Cisco: Viptela vEdge Cisco: Viptel	Dynamic Application Settings Cisco: Viptela Component Counts	Dynamic Application		~
 App: Cisco: Viptela vBond Discov 4 App: Cisco: Viptela Events Cachir 4 App: Cisco: Viptela vManage System 	Cred Viptela Credential Example	entials 🗸	Every 1 Minute	Poll Rate
		Dynamic Application Presentation Object(s)	
	BFD Count by Device state Control Count by Device state OMP Count by Device state vBond Count by Device state vEdge Count by Device state vSmart Count by Device state	Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled		
	Dynamic Application Thresholds Raw Data Retention	· · · · ·	90 days	
	Daily Rollup Retention	Save As	730 days 365 days	`

- 4. In the **Credentials** drop-down list, select the credential that you created for Viptela.
- 5. Click the next Dynamic Application listed in the **Subtemplate Selection** section on the left side of the page and then select the credential you created in the **Credentials** field.
- 6. Repeat step 5 until you have selected that credential in the **Credentials** field for all of the Dynamic Applications listed in the **Subtemplate Selection** section.
- 7. Click [Save].

Using the Device Template to Align Dynamic Applications to the Component Device

After you have configured the "Cisco: Viptela vManage Template" so that each dynamic application in the template aligns with the credential you created, you can use that template to align the Dynamic Applications to the root component device for Cisco Viptela.

To use the "Viptela vManage Template" to align Dynamic Applications:

- 1. Go to the **Device Manager** page (Registry > Devices > Device Manager.
- 2. On the **Device Manager** page, select the checkbox for the root component device.

vice Manager Devices Found											Actions Report	Res	et Gui	de
Device Name •		IP Address	Device Category	Device Class Sub-class		Organization	Current State	~	Collection Group	Collectio State	D <u>SNMP</u> Credential	SNMP Versio	<u>n</u>	
Am 10.10.10.10	۳		Network.Services	Cisco Systems Viptela vManage	80	SILO	Critical	<u>*</u>	CUG2	Active			• • •	
🥭 📶 🏯 🚆 Branch 1-Router 1	۳	-	Network.Router	Cisco Systems Viptela vEdge Cloud	87	SILO	Major	▲	CUG2	Unavailable	-		📾 😂 🗞 💼	1
🥜 📶 进 进 Branch 1-Router 2			Network.Router	Cisco Systems Viptela vEdge Cloud	86	SILO	Major	<u>.</u>	CUG2	Unavailable				j
🤌 📶 🚉 💂 DC1-Router1	۳		Network.Router	Cisco Systems Viptela vEdge Cloud	91	SILO	Major	▲	CUG2	Unavailable	-			ï
→ 創 是 是 DC1-Router2	۳		Network.Router	Cisco Systems Viptela vEdge Cloud	89	SILO	Major	≜	CUG2	Unavailable	-		1 N N 1	1
🥜 📶 🚉 🗸 DC2-Router1	۳		Network.Router	Cisco Systems Viptela vEdge Cloud	88	SILO	Major	▲	CUG2	Unavailable	-			1
🤌 📶 🚉 🚆 DC2-Router2	۳		Network.Router	Cisco Systems Viptela vEdge Cloud	90	SILO	Major	4	CUG2	Unavailable			🖶 💐 🗞 🛅	1
🤌 📶 🚊 🚊 vBond-1	۳		Network.Services	Cisco Systems Viptela vBond Orchestrator	84	SILO	Major	▲	CUG2	Unavailable	-			1
🤌 📶 🚊 🚊 vBond-2	۳		Network.Services	Cisco Systems Viptela vBond Orchestrator	85	SILO	Major	1	CUG2	Unavailable	[Select Action]			Î
🔑 🚮 🚉 🤹 vEdge Container	۳	-	Network.Services	Cisco Systems Viptela vEdge Container	83	SILO	Healthy	L	CUG2	Active	Administration:			
<i>∲</i> :∰ 🚊 vSmart-1	۳		Network.Services	Cisco Systems Viptela vSmart Controller	81	SILO	Major	▲	CUG2	Unavailable	_DELETE Selecte		IS	
🥕 🚮 🚊 🚆 vSmart-2	۳		Network Services	Cisco Systems Viptela vSmart Controller	82	SILO	Major	٨	CUG2	Unavailable	_MODIFY By Tem CLEAR Device Lo			
											_CREATE Asset R _SCHEDULE Maint _FIND Collection I Change Collection S _Active Disabled	tenance Label Du	plicates	
											Change User Mainte	nance	Mode:	
											_Enabled with Co			
											_Enabled without	: Collecti	on	
											_Disabled			
											Change Collector Gr	oup:		
											CUG Automation	n		
											Move To Organizatio			
											_backend			
											LMODIFY By Template		V Go	j

3. In the **Select Actions** field, in the lower right, select the option MODIFY by Template and click the **[Go]** button. The **Device Template Editor** page appears:

Device Terr	nplate Editor Applying Template to De	evices Config T	'emplate Se	ttings (Click field labels	to enable/disa	ble them)	Reset
Template	New / One-off Template	Save When App	olied & Confin	med Template	Name		
Con	New / One-off Template	cies Po	ort Policies	Svc Policies	Proc Poli	cies Dyn Apps	Logs
Access &						Device Preferences	
Devic		\sim				Auto-Clear Events	Scan All IPs
	Cisco: Viptela vManage Template	\sim	SNMP Write	None	\sim		
Avai	Host Agent: Dynamic Applications	\sim	Avail Port	ICMP	\sim	Accept All Logs	Dynamic Discovery
La	Support: Apply Applications Support: Discovery Template		Latency Port	TCMP			
Avail	UCS Template					Daily Port Scans	Preserve Hostname
- Crui	VMware vSphere Template		Collector Grp	(c) (c)			
			collector Grp	CUG2	\sim	Auto-Update	Disable Asset Update
	Coll. Type Standard	\sim					
	Critical Ping Disabled	\sim				Bypass Interface	
	Event Mask Disabled	\sim				Inventory	
Device Re	tention & Basic Thresholds						
	System Latency	1	00 ms	Daily Rollup Bandwidth Data			730 days
				Hourly Rollup Bandwidth Data	÷.	I	120 days
Availa	bility Packet Size		56 bytes	Raw Performance	ý	1 I	7 days
Avail	lability Ping Count	•	1 pings	Daily Rollup Performance Data	1	· · · · · · · · · · · · · · · · · · ·	730 days
Interface	Inventory Settings						
	Interface Inventory	600		Maximum Allows	ed . in	· · · (10000 interfaces
				uhhià -			

- 4. Complete the following fields:
 - In the **Template** drop-down list, select Cisco: Viptela vManage Template.
 - In the **Credentials** drop-down list, select the credential you created earlier.
- 5. Click the **[Apply]** button, and then click **[Confirm]** to align the Dynamic Applications to the root component device.

Viewing Information About the Cisco Viptela System

You can view all the devices, virtual devices, and component devices in the Cisco Viptela system in the following places in the user interface:

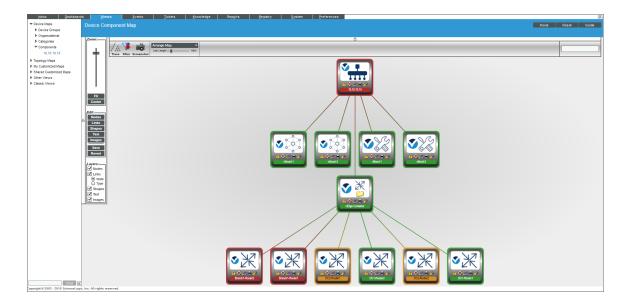
 All devices, virtual devices, and component devices appear in the Device Manager page (Registry > Devices > Device Manager).

ice Manager Devices Found [12]									Ac	tions Report	Re	set Gu	uide
Device Name +	IP Address	Device Category	Device Class Sub-class		Oroanization	Current State	~	Collection Group	Collection State	SNMP Credential	SNMP Version)	6
A 10.10.10.10	۳	Network.Services	Cisco Systems Viptela Manage	80	SILO	Critical	<u>.</u> c	CUG2	Active	-		• • • •	
🥜 📶 🚉 🚆 Branch 1-Router 1	۰. ۳	Network.Router	Cisco Systems Viptela vEdge Cloud	87	SILO	Critical	<u> </u>	CUG2	Active	-		📾 😂 🗞 🔟	
🥜 📶 基 基 Branch 1-Router2	۰. ۳	Network.Router	Cisco Systems Viptela vEdge Cloud	86	SILO	Critical	<u>1</u> c	CUG2	Active	-			1
🥜 📶 🚉 🚉 DC1-Router1	۰. ۳	Network.Router	Cisco Systems Viptela vEdge Cloud	91	SILO	Healthy	۵	CUG2	Active	-		📾 😂 🗞 📑	[
	·	Network.Router	Cisco Systems Viptela vEdge Cloud	89	SILO	Healthy	<u>ı</u>	CUG2	Active	-	-	🖶 🕇 🗞 📑) [
Am 🚑 🚆 DC2-Router1	۰. ۳	Network.Router	Cisco Systems Viptela vEdge Cloud	88	SILO	Healthy	۸. c	CUG2	Active	-		🖷 🕄 🗞 📰	1 [
🤌 📶 🛃 🚊 DC2-Router2	·	Network.Router	Cisco Systems Viptela vEdge Cloud	90	SILO	Healthy	<u>1</u>) (CUG2	Active	-		🝽 🕇 🗞 📑] [
🥜 📶 💐 💐 vBond-1	۰. ۳	Network.Services	Cisco Systems Viptela vBond Orchestrator	84	SILO	Healthy	۸.	CUG2	Active	-		🗎 🕄 🗞 📑	
🤌 📶 🚉 🚉 vBond-2	· -	Network.Services	Cisco Systems Viptela vBond Orchestrator	85	SILO	Healthy	<u>1</u>) (CUG2	Active	-		🖶 🕇 🗞 📑	
🥜 📶 💐 🌺 vEdge Container		Network.Services	Cisco Systems Viptela vEdge Container	83	SILO	Healthy	۵ 🔬	CUG2	Active	-		🖶 👯 🗞 🔳	[
	۳	Network.Services	Cisco Systems Viptela vSmart Controller	81	SILO	Healthy	<u>1</u>	CUG2	Active	-	-	🖶 🕇 🗞 📑	1
🥜 📶 🏯 🌺 vSmart-2	۳	Network.Services	Cisco Systems Viptela vSmart Controller	82	SILO	Healthy	۵	CUG2	Active	-		🖶 🕇 🗞 🔢	1

• 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 component devices associated with Cisco Viptela, find the Cisco Viptela root device and click its plus icon (+):

¥ 1. – <mark>⊮ni</mark>]10.10.	Device Name •	P Address	Device Category							
1. — 🥕 🚮 10.10.)	Device Class Sub-class		Organization	Current State	Collection Group	Collection State	E
	.10.10		Services	Cisco Systems Viptela Manage	80	SILO	A Critical	CUG2	Active	10 10 10 10
	Device Name •	P Address	Device Category	Device Class I Sub-class		Organization	Current State	Collection Group	Collection State	
1. 🤌 🚮 🔪	vBond-1		Services	Cisco Systems Viptela vBond Orchestrator	84	SILO		CUG2	Active	
2. 🤌 🚮 V	vBond-2	۰. ۳	Services	Cisco Systems Viptela vBond Orchestrator	85	SILO	🛦 Healthy	CUG2	Active	10 10 10 <u>10</u> 10 10 10 10 10 10 10 10 10 10 10 10 10
3. — 🤌 🚮 🛛	vEdge Container	· ·	Services	Cisco Systems Viptela vEdge Container	83	SILO	🛦 Healthy	CUG2	Active	10 10 10 A
	Device Name •	P Address	Device Category	Device Class Sub-class	00	Organization	Current State	Collection Group	Collection State	Ø
1.	🛃 🏢 Branch 1-Router 1		Router	Cisco Systems Viptela vEdge Cloud	87	SILO	A Critical	CUG2	Active	
2.	Branch1-Router2	•	Router	Cisco Systems Viptela vEdge Cloud	86	SILO	🛕 Critical	CUG2	Active	📾 🎝 🗞 🗖 🗆
3.	DC1-Router1	• -	Router	Cisco Systems Viptela vEdge Cloud	91	SILO	🛦 Healthy	CUG2	Active	🖶 🍀 🗞 🗖
4. 🧧	DC1-Router2 👔 🖞	۰. ۳	Router	Cisco Systems Viptela vEdge Cloud	89	SILO	🛦 Healthy	CUG2	Active	📾 👯 🗞 🚨 🗌
5. 🧧	DC2-Router1	۰. ۳	Router	Cisco Systems Viptela vEdge Cloud	88	SILO	🛦 Healthy	CUG2	Active	🖶 🔀 🗞 🔜 🗌
6.	DC2-Router2	۰. ۳	Router	Cisco Systems Viptela vEdge Cloud	90	SILO	🛦 Healthy	CUG2	Active	🖶 👯 🗞 🚨 🗌
4. 🥜 ailly	vSmart-1	•	Services	Cisco Systems Viptela vSmart Controller	81	SILO	🛦 Healthy	CUG2	Active	🖶 👯 🗞 📠 🗌
5. 🥜 🚮 🛛	vSmart-2	.	Services	Cisco Systems Viptela vSmart Controller	82	SILO	🛦 Healthy	CUG2	Active	10 🐱 N 🚠 🗆

The Device 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 for Cisco Viptela devices, 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.



Chapter



Dashboards

Overview

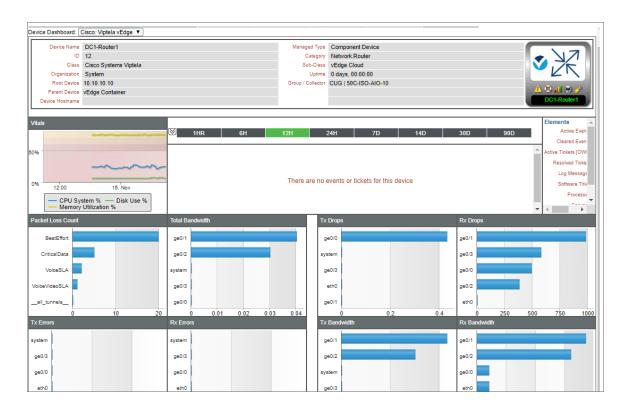
The Cisco: Viptela PowerPack contains dashboards that present data related to different aspects of a Cisco Viptela system.

The following sections describe each of these dashboards:

Cisco Viptela vEdge Dashboard	.15
Cisco Viptela vManage Dashboard	16
Cisco Viptela vSmart and vBond Dashboard	.17

Cisco Viptela vEdge Dashboard

The Cisco: Viptela PowerPack includes a dashboard that provides summary information for vEdge Router component devices.

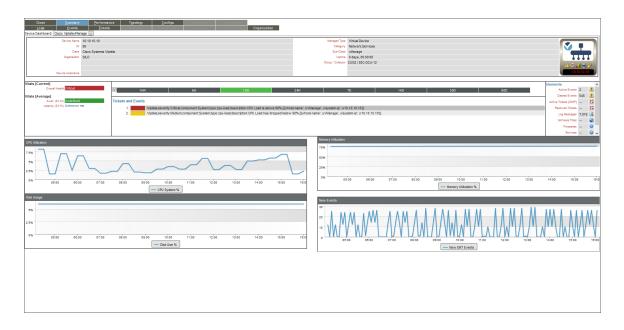


The Cisco: Viptela vEdge dashboard displays the following information:

- Vitals: CPU system percentage, disk use percentage, and memory utilization percentage
- Packet loss count
- Total bandwidth by interface
- Tx drops by interface
- Rx drops by interface
- Tx errors by interface
- Rx errors by interface
- Tx bandwidth by interface
- Rx bandwidth by interface

Cisco Viptela vManage Dashboard

The Cisco: Viptela PowerPack includes a dashboard that provides summary information for vManage component devices.



The Cisco: Viptela vManage dashboard displays the following information:

- CPU utilization
- Memory utilization
- Disk usage
- New event counts

Cisco Viptela vSmart and vBond Dashboard

The Cisco: Viptela PowerPack includes a dashboard that provides summary information for vSmart and vBond component devices.



The Cisco: Viptela vSmartvBond dashboard displays the following information:

- CPU utilization
- Memory utilization
- Disk usage
- Process counts

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

International: +1-703-354-1010