

Monitoring F5 BIG-IP

F5 BIG-IP PowerPack version 103

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Chapter

Introduction

Overview

This manual describes how to monitor F5 Networks' BIG-IP Local Traffic Manager (LTM) devices in SL1 using the F5 BIG-IP PowerPack.

The following sections provide an overview of BIG-IP LTM devices and the F5 BIG-IP PowerPack:

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What is F5 BIG-IP LTM?

F5 Networks' BIG-IP Local Traffic Manager (LTM) devices manage local system traffic to ensure optimal network and application performance and increase the system's operational efficiency. BIG-IP LTM solutions include BIG-IP appliances, the VIPRION application delivery controller, and software-based BIG-IP Virtual Editions.

What Does the F5 BIG-IP PowerPack Monitor?

The F5 BIG-IP PowerPack enables you to monitor LTM configuration and performance metrics for virtual servers, pools, and member nodes, as well as other chassis and asset information.

The F5 BIG-IP PowerPack includes the following features:

- Dynamic Applications that discover and monitor F5 BIG-IP LTM devices
- Device Classes for each of the F5 BIG-IP LTM devices that the F5 BIG-IP PowerPack can monitor
- Event Policies and corresponding alerts that are triggered when F5 BIG-IP LTM devices meet certain status criteria

Installing the F5 BIG-IP PowerPack

Before completing the steps in this manual, you must import and install the latest version of the F5 BIG-IP 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 F5 BIG-IP Local Traffic Manager (LTM) services for monitoring by SL1 using the *F5 BIG-IP* PowerPack:

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Discovering an F5 BIG-IP System	7
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Prerequisites for Monitoring F5 BIG-IP

Before you can monitor F5 BIG-IP services using the F5 BIG-IP PowerPack, you must ensure that SL1 can communicate with BIG-IP using SNMP and you must know the SNMP community string for the BIG-IP system. SL1 can then use the data collected from BIG-IP to create device records for all components managed by BIG-IP.

Creating an SNMP Credential for F5 BIG-IP

To use the Dynamic Applications in the F5 BIG-IP PowerPack, you must first define an SNMP credential in SL1. This credential allows SL1 to communicate with the BIG-IP system.

To configure an SNMP credential for F5 BIG-IP:

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

- 2. Click the **[Actions]** button.
- 3. In the drop-down list that appears, select Create SNMP Credential. The **Credential Editor** page appears:

Credential Editor		×					
Create New SNMP Credential		Reset					
Basic Settings Prof	ile Name	SNMP Version					
Port [161	Timeout(ms)	Retries					
SNMP V1/V2 Settings SNMP Community (Read-Only) SNMP Community (Read/Write)							
SNMP V3 Settings Security Name		Security Passphrase					
Authentication Protocol	Security Level	SNMP v3 Engine ID					
Context Name	Privacy Protocol	Privacy Protocol Pass Phrase T					
	Save						

- 4. In the **SNMP Version** field, select SNMP V2.
- 5. In the **Profile Name** field, enter a name for the credential.
- 6. In the SNMP Community (Read Only) field, enter the community string for the BIG-IP system.
- 7. Optionally, supply values in the other fields in this page. In most cases, you can use the default values for the other fields.
- 8. Click the **[Save]** button.

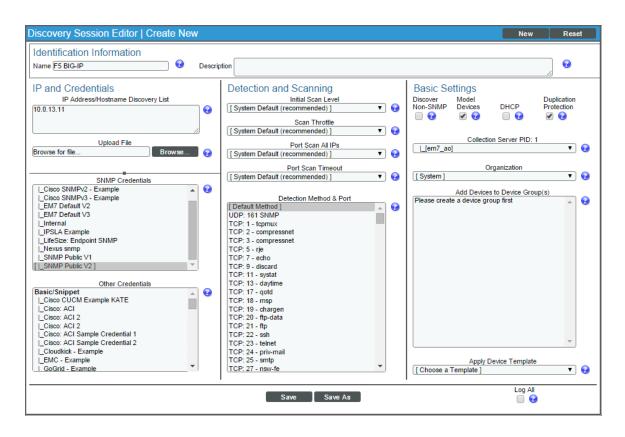
Discovering an F5 BIG-IP System

After you have created an SNMP credential for the F5 BIG-IP system that you want to monitor, you can create and run a discovery session that will discover the BIG-IP system and automatically align Dynamic Applications with the BIG-IP system.

To do so, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).

2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** window appears:



- 3. Enter values in the following fields:
 - IP Address Discovery List. Enter the IP address for the BIG-IP system.
 - SNMP Credentials. Select the SNMP Credential for the BIG-IP system.
- 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 and then close the Discovery Session Editor window.
- 6. The discovery session you created will appear at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (*F*) to run the discovery session.
- The Discovery Session window appears. When the BIG-IP system is discovered, you can click its device icon (I) to view the system device's properties.

Aligning F5 BIG-IP Dynamic Applications

The Dynamic Applications in the F5 BIG-IP PowerPack are divided into four types:

- **Count**. These Dynamic Applications poll BIG-IP to determine the number of component devices monitored by SL1.
- **Discovery**. These Dynamic Applications poll BIG-IP for new instances of component devices or changes to existing instances of component devices.
- **Configuration**. These Dynamic Applications retrieve configuration information about each component device and retrieve any changes to that configuration information.
- Performance. These Dynamic Applications poll BIG-IP for performance metrics.

The following Dynamic Applications are aligned automatically to the F5 BIG-IP system when you run discovery:

- F5: Viprion Chassis Slot Status
- F5 BIG-IP: Cluster Status
- F5 BIG-IP: CPU Configuration
- F5 BIG-IP: Disk Array Status
- F5 BIG-IP: Fan Status
- F5 BIG-IP: Interface Usage (64Bit)
- F5 BIG-IP: Performance
- F5 BIG-IP: Power Supply Status
- F5 BIG-IP: System Configuration
- F5 BIG-IP: Temperature
- F5 BIG-IP: vCMP VM Configuration
- F5 BIG-IP LTM: Node Configuration
- F5 BIG-IP LTM: Node Discovery
- F5 BIG-IP LTM: Node Performance
- F5 BIG-IP LTM: Pool Configuration
- F5 BIG-IP LTM: Pool Discovery: Non-Default Pools
- F5 BIG-IP LTM: Pool Discovery: Virtual Server Default Pools
- F5 BIG-IP LTM: Pool Member Configuration
- F5 BIG-IP LTM: Pool Member Discovery
- F5 BIG-IP LTM: Pool Member Performance
- F5 BIG-IP LTM: Pool Performance
- F5 BIG-IP LTM: Virtual Server Configuration
- F5 BIG-IP LTM: Virtual Server Discovery

- F5 BIG-IP LTM: Virtual Server Performance
- Host Resource: Configuration
- Net SNMP: CPU
- Net SNMP: Physical Memory
- Net SNMP: Swap
- CAUTION: To discover all of the component devices in the BIG-IP system, you must **manually align** the "F5 BIG-IP LTM: Service Discovery" Dynamic Application with the BIG-IP root device. For instructions on how to do this, see the section on Manually Aligning the Dynamic Application with the BIG-IP Root Device.

If these Dynamic Applications are not aligned during discovery, perform the following steps to add them manually:

- 1. Go to the **Device Properties** page (Registry > Devices > wrench icon) for the BIG-IP system.
- 2. Click the [Collections] tab. The Dynamic Application Collections page appears.
- 3. Click the **[Actions]** button and then select Add Dynamic Application. The **Dynamic Application Alignment** page appears:

Dynamic Application Alignment		Reset
Dynamic Applications	Credentials	
f5 Bulk Snippet Configuration: Bulk Snippet Performance: Database Performance: Database Performance: PowerShell Config: PowerShell Config: PowerShell Performance: Snippet Configuration: LF5 BIG-IP LTM: Virtual Server Discovery LF5 BIG-IP LTM: Virtual Server Discovery LF5 BIG-IP LTM: Pool Discovery: Virtual Server LF5 BIG-IP LTM: Pool Member Discovery LF5 BIG-IP LTM: Node Configuration LF5 BIG-IP LTM: Pool Member Configuration LF5 BIG-IP LTM: Pool Configuration LF5 BIG-IP LTM: Pool Discovery: Non-Default P Snippet Journal: Snippet Performance: LF5 BIG-IP LTM: Pool Performance LF5 BIG-IP LTM: Pool Performance LF5 BIG-IP LTM: Virtual Server Performance SNMP Configuration: LF5 BIG-IP: System Configuration Version: LF5 BIG-IP: System Configuration	Default: _Default SNMP Credential SNMP: _Cisco SNMPv3 - Example _Cisco SNMPv2 - Example _IPSLA Example _Nexus snmp _EM7 Default V2 _EM7 Default V2 _EM7 Default V3 _SNMP Public V1 _SNMP Public V1 _SNMP Public V1 _SNMP Public V2 _LifeSze: Endpoint SNMP _Internal Database: _EM7 Collector Database I_EM7 Collector Database SOAP/XML Host: _Amazon Web Services Credential _CUCM PerfmonService 8.0 Example _UCS _NetApp w/SSL Option Off _NetApp w/SSL Option I_Polycom - System _Polycom - Advanced _Polycom - Interface	

4. In the **Dynamic Applications** field, select the Dynamic Application that you want to align to the BIG-IP system.

- 5. In the Credentials field, select the SNMP credential for the BIG-IP system.
- 6. Click the [Save] button.

Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device

When you run discovery, the "F5 BIG-IP LTM: Component Counts" Dynamic Application is automatically aligned with the F5 BIG-IP system. This Dynamic Application enables you to determine the number of component devices in your BIG-IP system that will be discovered.

To determine the BIG-IP component device count:

- 1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
- 2. Click the wrench icon (*P*) for the BIG-IP system.
- 3. In the **Device Administration** panel, click the **[Collections]** tab. The **Dynamic Application Collections** page displays.
- 4. Click the plus icon (+) for the "F5 BIG-IP LTM: Component Counts" Dynamic Application. If collection for the Dynamic Application was successful, the graph icons (411) for the "F5 BIG-IP LTM: Component Counts" presentation objects are enabled:

Dynamic Application TM Collections						xpand	Actions	Reset	Guide
Dyn	amic Application	ID	Poll Frequen	cy	Typ	<u>e</u>		<u>Credential</u>	
F5 BIG-IP LTM: Component Counts		1223	15 mins	SI	NMP Performant	ce	Default SNN	IP Credent	ial 🥖
	Presentation Object •		Version	Pid	Found	Collecting	Group	Label	Precedence
+ mLTM Node Count			1	p_4399	yes	yes			0
+ mlLTM Pool Count			1	p_4401	yes	yes			0
+ MLTM Pool Member Count			1	p_4397	yes	yes			0
+ mLTM Virtual IP Count			1	p_4400	yes	yes			0
+ MLTM Virtual Server Count			1	p_4398	yes	yes			0
	Misc Collection Object •				Cid	Found	Collect	ing	Edited By
mDiscovery Object					o_13478	no	yes		
+ F5 BIG-IP: Interface Usage (64Bit)		1222	5 mins	S	NMP Performance	e	Default SNN	IP Credent	ial 🥖
+ F5 BIG-IP: Performance		1217	15 mins	SI	NMP Performant	ce .	Default SNN	IP Credent	ial 🥖
+ Net-SNMP: CPU		564	5 mins	SI	MP Performant	æ	Default SNN	IP Credent	ial 🥖
+ Net-SNMP: Physical Memory		565	5 mins	SI	NMP Performant	ce .	Default SNN	IP Credent	ial 🕖
+ Net-SNMP: Swap		566	5 mins	SI	MP Performant	ce .	Default SNN	IP Credent	ial 🥖
+ F5 BIG-IP: Disk Array Status		1221	60 mins	SI	NMP Configurati	on	Default SNN	IP Credent	ial 🕖
+ F5 BIG-IP: System Configuration		1215	360 mins	SI	NMP Configurati	on	Default SNN	IP Credent	ial 🥖
+ Host Resource: CPU Config		470	1440 mins	SI	NMP Configurati	on	Default SNN	IP Credent	ial 🥖
+ Host Resource: Software		467	120 mins	SI	NMP Configurati	on	Default SNN	IP Credent	ial 🥖
+ System Uptime: hrSystemUptime		932	5 mins	SI	NMP Configurati	on	Default SNN	IP Credent	ial 🕖
+ System Uptime: sysUptime		931	5 mins	SI	NMP Configurati	on	Default SNN	IP Credent	ial 🥖
+ F5 BIG-IP LTM: Service Discovery		1201	120 mins	Si	nippet Configurat	tion	Default SNN	IP Credent	ial 💋
+ Host Resource: Memory Config		469	1440 mins	Si	nippet Configurat	tion	Default SNN	IP Credent	ial 🥖
+ Support: File System		719	120 mins	SI	nippet Configurat	tion	Default SNN	IP Credent	ial 🥖
					[Select	Action]			Go Go
		Sav	e)						

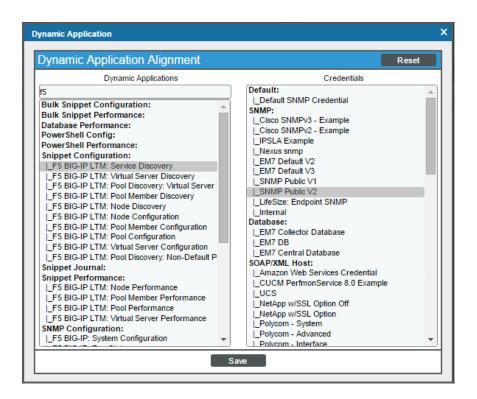
5. Click a graph icon (IIII) for any of the "F5 BIG-IP LTM: Component Counts" presentation objects to view the collected data for that presentation object. The **Device Performance** page displays the number of components that are being monitored.

Overview	Options Report	F5 BIG-IP LTM: Component Counts LTM Node Count	Reset Guide
File Systems	Zoom 6H 12H 1D Max		From: To:
Network Interfaces			
Net-SNMP: CPU			
 Net-SNMP: Physical Memory Net-SNMP: Swap 	21.04		
Net-SNMP: Swap F5 BIG-IP: Performance			
F5 BIG-IP: Interface Usage (64Bit)	21.02		
▼ F5 BIG-IP LTM: Component Counts			
LTM Pool Member Count			
LTM Virtual Server Count	21		2015-08-27 07:30:00
LTM Node Count			LTM Node Count: 21
LTM Pool Count	20.98		
	+		
	20.96		
	20.94		
		U	
	•		
		C Data Type/Label Graph Type Trend Mouse-over Min	Missed Max Avg Polls
	Date Range Selection:	V LTM Node line V 21 21	21 21 86
	Start 08/25/2015 08:46:37		
	End 08/27/2015 08:46:37		
	Presets Set Custom		
Find			

After verifying the number of component devices that will be discovered, perform the following steps to start component device discovery by aligning the "F5 BIG-IP LTM: Service Discovery" Dynamic Application with the BIG-IP root system:

- 1. Go to the **Device Properties** page (Registry > Devices > wrench icon) for the BIG-IP system.
- 2. Click the [Collections] tab. The Dynamic Application Collections page appears.

3. Click the **[Actions]** button and then select Add Dynamic Application. The **Dynamic Application Alignment** page appears:



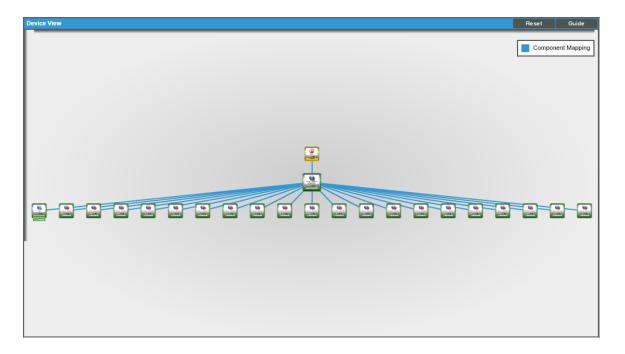
- 4. In the Dynamic Applications field, select F5 BIG-IP LTM: Service Discovery.
- 5. In the **Credentials** field, select the SNMP credential for the BIG-IP system.
- 6. Click the **[Save]** button.

Viewing Component Devices

When SL1 performs collection for the F5 BIG-IP system, SL1 will create component devices that represent each device and align other Dynamic Applications to those component devices. Some of the Dynamic Applications aligned to the component devices will also be used to create additional component devices. All component devices appear in the **Device Manager** page just like devices discovered using the ScienceLogic discovery process.

In addition to the **Device Manager** page, you can view the F5 BIG-IP system and all associated component devices in the following places in the user interface:

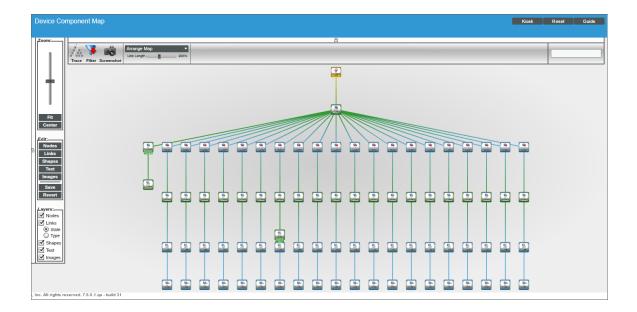
• The **Device View** modal page (click the bar-graph icon [**1**] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected 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 component devices associated with an F5 BIG-IP system, find the BIG-IP device and click its plus icon (+):

- 🤗 📶 Lab	-F5-BIG-IP.ga.sci	encelogic.local	10.0.13.11	Appl	cation F	5 Networks, Inc. I	BIG-IP Virtual Edition	1227	System		() Minor	CUG	Active	m 13 N
					Device						Current	Collection	Collection	
		ce Name *	IP Add		Category		ice Class Sub-class	DID		Organization	State	Group	State	
1. – 🥜	BIG-IP LTM Se	rvice	۳.	- 6	pplication	F5 Networks, Inc	c. BIG-IP Local Traffic Mana	iger 1228	System		A Healthy		Active	🖶 👯 🗞
		Device Name •	IP	Address	Device Category	De	evice Class Sub-class	DID		Organization	Current State	Collection Group	Collection State	
1. +	A this-is-ar	-extremely-long-pool-name-			Application		Inc. BIG-IP LTM Pool	1561	System		A Healthy		Active	📾 👯 🗞 :
2. —	A 11 vs-172-0	130-128-001			Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1578	System		A Notice	CUG	Active	📾 😂 🗞 j
					Dev						Current	Collection	Collection	
		Device Name *		IP Address	Cate		Device Class Sub-class	DI		Organization	State	Group	State	
	1. — 🥜 📶 PO	ol-172-030-000-001			Applicati		ks, Inc. BIG-IP LTM Pool	1599	System		A Healthy		Active	🖮 🗮 🗞 🧕
		Device Name •		IP Addr	iss C	Device ategory	Device Class Sub-class		DID	Organization	Current State	Collection Group	Collection State	
	1. – 🌛	mode-172-030-000-001:8	10		Appli		works, Inc. BIG-IP LTM Po	Membe 162	0 Syste	m	A Notice	CUG	Active	🖮 💢 🗞 🖉
						Device					Current	Collection	Collection	
		Device Nar			ddress	Category	Device Class Sub-clas		DID	Organization	State	Group	State	[
	1.	Ame-172-030-000	1-001		P	pplication F5 N	Networks, Inc. BIG-IP LTM	Node 16	540 Syst	em	A Notice	CUG	Active	🖶 🍀 👯 👼
3. +	Ant vs-172-0	130.128.002	۳		Application	E5 Networks	Inc. BIG-IP LTM Virtual Se	ver 1580	System		A Notice	CUG	Active	H 🗮 🖏 🖏
4. +	A vs-172-0				Application		Inc. BIG-IP LTM Virtual Se		System		A Notice		Active	
5. +	A 11 vs-172-0		Ű		Application		Inc. BIG-IP LTM Virtual Se		System		A Notice		Active	
6. +	- <u></u>				Application		Inc. BIG-IP LTM Virtual Se		System		A Notice		Active	
7. +					Application		Inc. BIG-IP LTM Virtual Se		System		A Notice		Active	
8. +	A 11 vs-172-0				Application	F5 Networks.	Inc. BIG-IP LTM Virtual Se	ver 1577	System		A Notice		Active	· · · · · · · · · · · · · · · · · · ·
9. +					Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1567	System		A Notice		Active	m 13 %
10. +	A 11 vs-172-0				Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1566	System		A Notice		Active	
11. +					Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1568	System		A Notice		Active	m 13 %
12. +		130-128-011			Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1569	System		A Notice		Active	
13. +	A 11/2-0	130-128-012			Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1581	System		A Notice		Active	m 13 %
14. +	A 11 vs-172-0				Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1571	System		A Notice		Active	
15. +					Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1572	System		A Notice		Active	m 13 %
16. +					Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1573	System		A Notice		Active	
17. +	A 11 vs-172-0				Application	F5 Networks,	Inc. BIG-IP LTM Virtual Se	ver 1574	System		/ Notice		Active	

The Device 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. SL1 automatically updates the Device Component Map as new component devices are discovered. SL1 also updates each map with the latest status and event information. To view the map for an F5 BIG-IP system, go to the Device Component Map page and select the map from the list in the left NavBar. To learn more about the Device Component Map page, see the Views manual.



Chapter



F5 BIG-IP Dashboards

Overview

The following sections describe the device dashboards that are included in the F5 BIG-IP PowerPack:

Device Dashboards	
F5: BIG-IP LTM Node	
F5: BIG-IP LTM Pool	
F5: BIG-IP LTM Pool Member	
F5: BIG-IP LTM Virtual Server	
F5: BIG-IP Root Device	

Device Dashboards

The F5 BIG-IP PowerPack includes device dashboards that provide summary information for F5 BIG-IP LTM component devices. Each of the device dashboards in the F5 BIG-IP PowerPack are set as the default device dashboard for the equivalent device class.

F5: BIG-IP LTM Node

Close	<u>S</u> ummary	<u>P</u> erformance	T <u>o</u> pology	<u>C</u> onfigs	Jo		Interfaces		
<u>L</u> ogs	<u>E</u> vents	<u>T</u> ickets	Software	Processes	Se	rvices	TCP/UDP Port	s Organization	
Device Dashboard:	F5: BIG-IP LTM Node	-							
Device Name ID Class	KMS_Server 66 F5 Networks, Inc.			C		Component Network.A BIG-IP LTM	pplication		
Organization					Uptime	0 days, 00:	00:00		NODE
	10.2.27.201			Group / C	ollector	CGU tetris	s-155		🔺 😂 📶 📾 🥜
	KMS_Server:1688								KMS Server
Device Hostname									KMIS_Server
Vitals [Current] Overall Health Notif Vitals [Average] Avail. (24 Hr.) Unde Latency (24 Hr.) Unkr	fined	8H 12H s and Events 1. Bit	18H 24H		Dailability	5D	7D 14D	21D 30D	45D 60D 90D
Bytes Sent / Recei	ved		Connection					Sessions	TCP Ports 📤
60mB			0.06Connect	tions				0.06Sessions	
50mB			0.05Connect	tions				0.05Sessions	
40mB			0.04Connect	tions				0.04Sessions	
30mB			0.03Connect	tions				0.03Sessions	
20mB			0.02Connect	tions					
10mB			0.01Connect	tions				0.02Sessions	
0mB 11:00	15:00	19:00	0Connect	tions 11:00	15	:00	19:00	0.01Sessions	

The F5: BIG-IP LTM Node device dashboard displays the following information:

- Vitals (Current)
- Vitals (Average)
- Tickets and Events
- Bytes Sent/Received
- Connections
- Sessions

F5: BIG-IP LTM Pool

Close Summary Performance Top Logs Events Tickets Device Dashboard: F5: BIG-IP LTM Pool ▼	bology <u>Configs</u> Identials Interfaces Interfaces Services TCP/UDP Ports	Organization
Device Name <redacted>.ice.dhs.gov.http ID 142 Class F5 Networks, Inc. Organization F5 Big IP Org 2 Root Device 10.2.7201 Parent Device BIG-IP LTM Service Device Hostname</redacted>	Managed Type Component Device Category Network Application Sub-Class BIG-IP LTM Pool Uptime 0 days, 00:00:00 Group / Collector CUG tetris-221	
₩ 1H 3H 6H 8H 12H 18H	24H 2D 3D 5D 7D 14D	21D 30D 45D 60D 90D
Vitals [Average] Avail. (24 Hr.) Undefined Latency (24 Hr.) Unknown ms Vitals [Average] Avail. (24 Hr.) Unknown ms Vitals [Average] Avail. (24 Hr.) Unknown ms Vitals [Average] Avail. (24 Hr.) Unknown ms Vitals [Average] Vitals [Average] Vit	ice ice vice	Elements Active Events 6 4 Cleared Events 23 4 Active Tickets [OWP] - 23 Resolved Tickets [OWP] - 23 Log Massages 34 3 Software Tiffes - 3 Process - 3 Bervices - 3 TCP Ports - 4
Bytes Sent / Received	Connections	Requests
70mB	0.07Connections	0.07Requests
80mB	0.08Connections	0.06Requests
50mB -	0.05Connections c	0.05Requests
40mB	0.04Connections	0.04Requests
30mB	0.03Connections	0.03Requests
20mB -	0.02Connections	0.02Requests
10mB	0.01Connections	0.01Requests
0mB	0Connections 12:00 16:00 20:00	
12:00 16:00 20:00	ice.dhs.gov.http: Current Connections From Server Side	0Requests 12:00 16:00 20:00
ice.dhs.gov.http: Bytes Sent To Server Side (B) ice.dhs.gov.http: Bytes Received from Server Side (B)	.ice.dhs.gov.http: Total Connections From Server Side .ice.dhs.gov.http: Maximum Connections From Server Side	ice.dhs.gov.http: Total Number of Requests (Requests)

The F5: BIG-IP LTM Pool device dashboard displays the following information:

- Vitals (Current)
- Vitals (Average)
- Tickets and Events
- Bytes Sent/Received
- Connections
- Requests

F5: BIG-IP LTM Pool Member

Close	<u>S</u> ummary	Performance	T <u>o</u> pology	<u>C</u> onfigs	Journals	Interface	s				
Logs	<u>Events</u>	Tickets	Software	Processes	Services	TCP/UDP P	orts Organization	1			
Device Dashboard: [F5: BIG-IP LTM Pool Member •											
ID 1 Class F Organization F Root Device 11 Parent Device Al Device Hostname	0.2.27.201				Network.Applica	ation of Member 0			MEMBER A 2 A E REDACTED	- 1533	•
1H 3H Vitals [Current] Overall Heath Critical Overall Heath Critical Vitals [Average] Avail. (24 Hr.) Undefin Latency (24 Hr.) Unknow	Tickets 1 1 2	A MAJOR: MINOR: *	18H 24H TM (10.2.27.201), P Test Event Test Event Test Event 7: Test Event	2D 3D	5D	7D 140) 21D 30		60D 90 ements Cleared Events Active Tickets (OWP) Resolved Tickets Log Messages Software Titles Processes	6 🔔 16 🧘 13 13 34 🗟 😜	
Bytes Sent / Received		_	Packets Sent /	Dessived		_	Connections		Services	- 🏶 .	-
70mB			0.07Packets	Received	_		07Connections				43
60mB			0.06Packets).08Connections				l
50mB			0.05Packets			c	0.05Connections				18
40mB			0.04Packets				0.04Connections				l
30mB			0.03Packets			c	0.03Connections				
20mB			0.02Packets			c	0.02Connections				l
10mB			0.01Packets			c	0Connections	04:00	08:00	12:00	
	08:00 7: Server Side Bytes 7: Server Side Bytes 7: PVA Bytes Sent (7: PVA Bytes Reciev	s Received (B) B)		04:00 53:87: Server Side Packt 53:87: Server Side Packt 53:87: PVA Packets Sent 53:87: PVA Packets Rec	ts Received (Pac (Packets)			I Connections rent Connectio ide Total Conn ide Current Co	(Connections) ns (Connections) ections (Connections nnections (Connections	i) ons)]

The F5: BIG-IP LTM Pool Member device dashboard displays the following information:

- Vitals (Current)
- Vitals (Average)
- Tickets and Events
- Bytes Sent/Received
- Packets Sent/Received
- Connections

F5: BIG-IP LTM Virtual Server

Close	<u>S</u> ummary	Performance	T <u>o</u> pology	<u>C</u> onfigs	Journals	Interfaces				
Logs Device Dashboar	Events d: F5: BIG-IP LTM Virtual Se	Tickets	Software	Processes	Services	TCP/UDP Ports	Organization			
Device Na Ci Organiza Root Dev	weight <redacted> 1D 105 sss F5 Networks, Inc. ion F5 Big IP Org 2 ice 10.2.27.201 ice BIG-IP LTM Service</redacted>			Ca Sub	d Type Componen tegory Network.Aj Class BIG-IP LTN Jptime 0 days, 00: Ullector CUG I tetris	oplication I Virtual Server 00:00				
⊠ 1н	3H 6H	BH 12H 1	18H 24H	2D 3D	5D	7D 14D	21D 30D	45D	60D 90D	•
Virtual Server Av	ailability 30. ¹ Mar /irtual Server Availability	Vitals [Current] Overall Health Vitals [Äverage] Avail. (24 Hr.) Latency (24 Hr.) 12:	Undefined	Tickets and Events 1. 2. 3. 4. 5.	CRITICAL: Test E MAJOR: Test Eve MINOR: Test Eve NOTICE: Test Ev HEALTHY: Test E	ent Int ent		A	Active Events 5 Cleared Events 31 ctive Tickets (OWP) Resolved Tickets Log Messages 137 Software Titles Processes Services	* * * * * * * * *
Bytes Sent / Red	eived		Packets Sent / F	Received			nections			
70mB			0.07Packets			0.070	onnections			
60mB			0.06Packets			0.060	onnections			
50mB			0.05Packets			0.050	onnections			
40mB			0.04Packets			0.040	Connections			
30mB			0.03Packets			0.030	Connections			
20mB			0.02Packets			0.020	Connections			
10mB			0.01Packets			0.010	Connections			
0mB	04:00	18:00 12		04:00	08:00	12:1	Connections	04:00	08:00	12:
- : Bytes	Sent To Client (B)			ets Sent To Client (Pa ets Received from Cli			- : Current Connect	ions from Client	Side (Connections)	

The F5: BIG-IP LTM Virtual Server device dashboard displays the following information:

- Virtual Server Availability
- Vitals (Current)
- Vitals (Average)
- Tickets and Events
- Bytes Sent/Received
- Packets Sent/Received
- Connections

F5: BIG-IP Root Device

Close Summary P Logs Events Device Dashboard: [F5: BIG-IP Root Device ▼]	erformance T <u>o</u> pology (<u>)</u> Tickets Software Pr	<u>C</u> onfigs do	Vinals Interfaces TCP/UDP Ports Orga	nization	
Device Name 10.2.27.201 IP Address / ID 10.2.27.201 I 72 Class / F5 Networks, Inc. Organization F5 Big IP Org 2 Collection Mode Active Description Device Hostname		Category Sub-Class Uptime Collection Time	Physical Device Network-Balancers BIG-IP Virtual Edition 0 days, 00:00:00 2020-03:30 12:13:00 CUG I tetris-221		BIG-IP ▲ ○ (1 ○) ² 10227.401
☑ 1H 3H 6H 8H Vitals [Current] Overall Health Critical ▲ Tickets at	12H 18H 24H	2D 3D	5D 7D 14D 21D	30D 45	D 60D 90D
Availability Okay 1. Latery 0.1520 ms 2. CPU 0% 3. Nemory 85.42% 4. Swap 2% 5. Vitals [Average] A.au.l (24 Hz) 100% Latery (24 Hz) 0.18 ms CPU (1 Hz) 0% Demony 114.186.46% Y	CRITICAL: Test Event MAJOR: Test Event Physical Memory has exceeded th NOTICE: Test Event F5 Status: Failover is in Standby i		y (86.4199183063%)		Cleared Events 103 ▲ Active Tickets [OWP] 20 Resolved Tickets 20 Log Messages Software Titles 30 Processes 30 Services 30
F5 Component Breakdown		E5 Men 100% 75%	nory Vitals	F5 CPU Vitals	
0 100 200	300 400 500 Pool Member Count	800 0% -	04:00 08:00	25% 12:0 0%	06:00 12:0
LTM Virtual Server Count]	— Memory (%) — Swap (%)		CPU (%)

The F5: BIG-IP LTM Root Device device dashboard displays the following information:

- Vitals (Current)
- Vitals (Average)
- Tickets and Events
- F5 Component Breakdown
- F5 Memory Vitals
- F5 CPU Vitals

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