



Monitoring F5 BIG-IP

F5 BIG-IP PowerPack version 103

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Chapter

1

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*:

What is F5 BIG-IP LTM?	3
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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

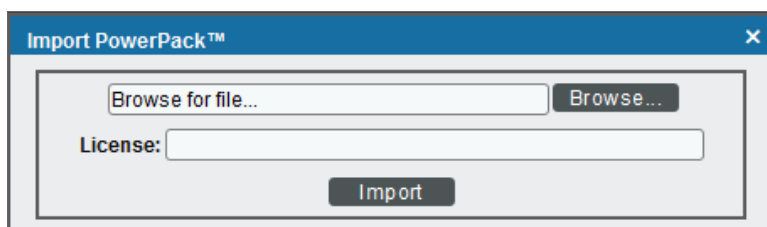
Installing the F5 BIG-IP PowerPack

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:



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*:

<i>Prerequisites for Monitoring F5 BIG-IP</i>	6
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<i>Discovering an F5 BIG-IP System</i>	7
<i>Aligning F5 BIG-IP Dynamic Applications</i>	9
<i>Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device</i>	11
<i>Viewing Component Devices</i>	13

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:

The screenshot shows the 'Credential Editor' window with the following sections:

- Basic Settings:** Profile Name (text input), SNMP Version (dropdown menu showing '[SNMP V2]'), Port (text input with '161'), Timeout(ms) (text input with '1500'), and Retries (text input with '1').
- SNMP V1/V2 Settings:** SNMP Community (Read-Only) (text input) and SNMP Community (Read/Write) (text input).
- SNMP V3 Settings:** Security Name (text input), Security Passphrase (text input), Authentication Protocol (dropdown menu showing '[MD5]'), Security Level (dropdown menu showing '[Authentication Only]'), SNMP v3 Engine ID (text input), Context Name (text input), Privacy Protocol (dropdown menu showing '[DES]'), and Privacy Protocol Pass Phrase (text input).

Buttons for 'Reset' and 'Save' are visible at the top right and bottom center of the form, respectively.

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.

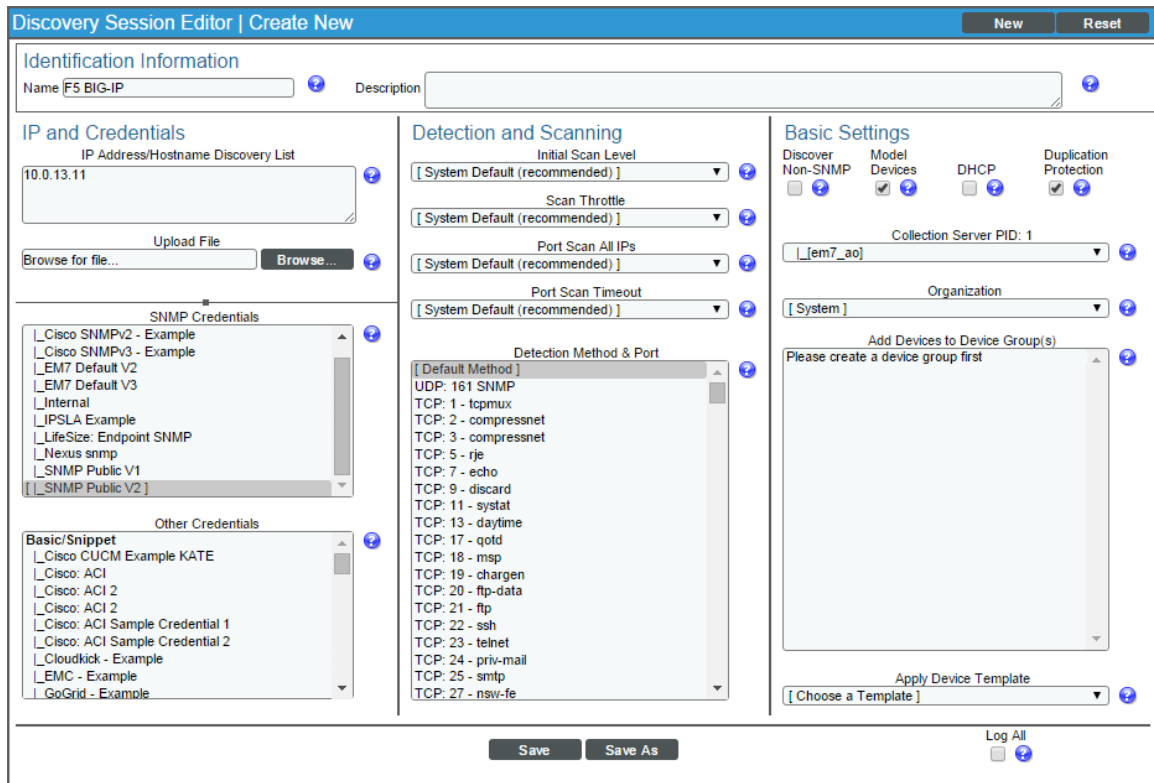
Discovering an F5 BIG-IP System

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).

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



- 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.
- 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.
- Click the **[Save]** button and then close the **Discovery Session Editor** window.
- The discovery session you created will appear at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (⚡) to run the discovery session.
- The **Discovery Session** window appears. When the BIG-IP system is discovered, you can click its device icon (🖨️) 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:

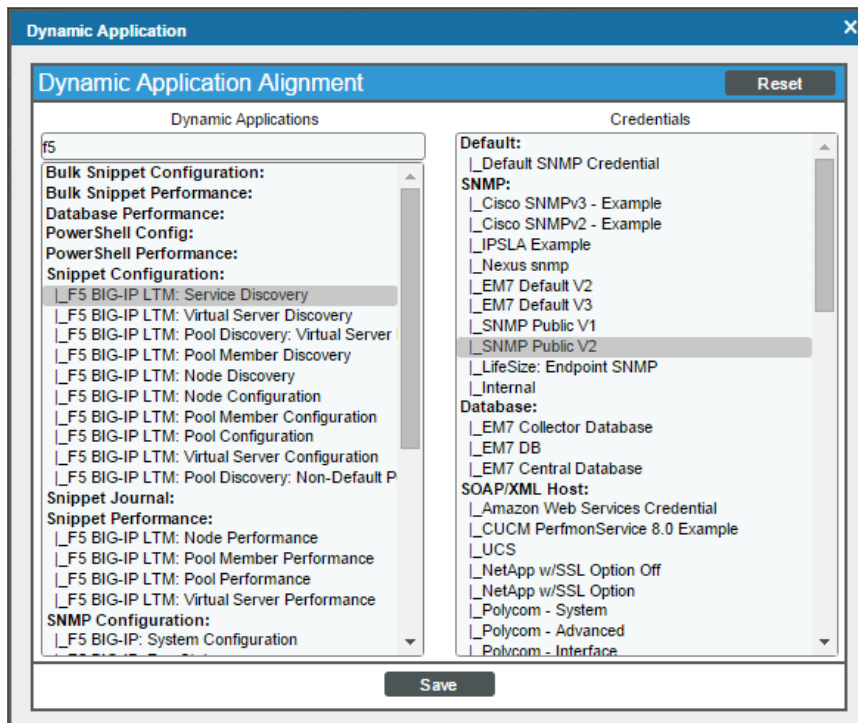
- F5: Viprion Chassis Slot Status
- F5 BIG-IP: Cluster Status
- F5 BIG-IP: CPU Configuration
- F5 BIG-IP: Disk Array Status
- F5 BIG-IP: Fan Status
- F5 BIG-IP: Interface Usage (64Bit)
- F5 BIG-IP: Performance
- F5 BIG-IP: Power Supply Status
- F5 BIG-IP: System Configuration
- F5 BIG-IP: Temperature
- 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:





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.

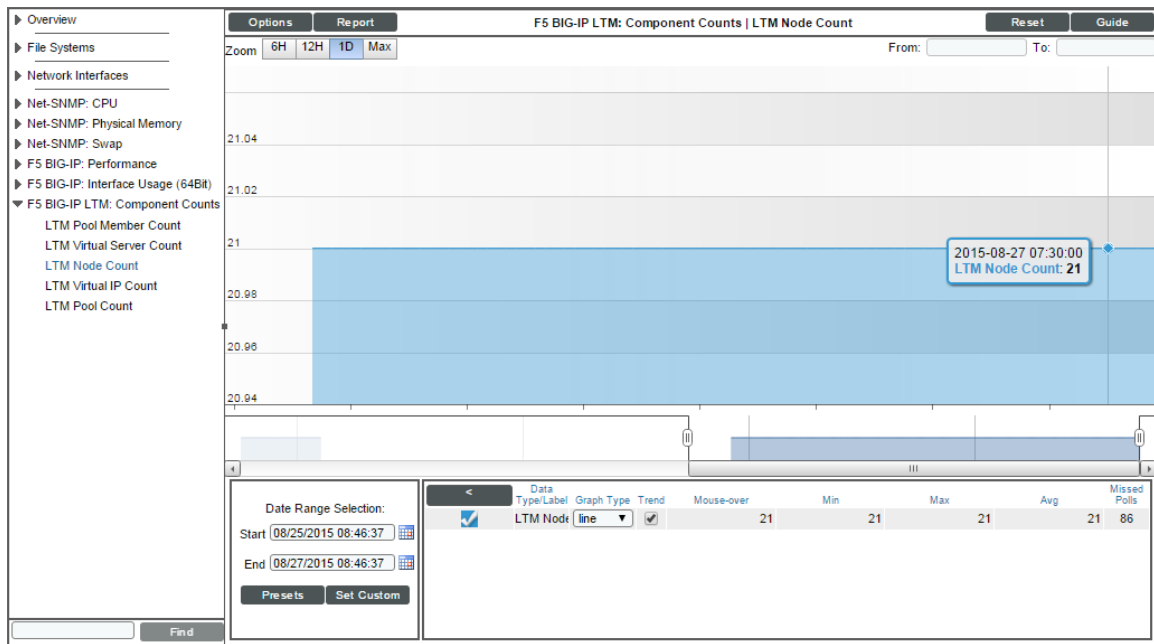
To determine the BIG-IP component device count:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. Click the wrench icon () 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 () for the "F5 BIG-IP LTM: Component Counts" presentation objects are enabled:

Dynamic Application™ Collections										Expand	Actions	Reset	Guide				
Dynamic Application	ID	Poll Frequency	Type	Credential													
- F5 BIG-IP LTM: Component Counts	1223	15 mins	SNMP Performance	Default SNMP Credential							<input type="checkbox"/>						
Presentation Object *										Version	Pid	Found	Collecting	Group	Label	Precedence	
+  LTM Node Count		1	p_4399	yes	yes	--	--	0	<input checked="" type="checkbox"/>								
+  LTM Pool Count		1	p_4401	yes	yes	--	--	0	<input checked="" type="checkbox"/>								
+  LTM Pool Member Count		1	p_4397	yes	yes	--	--	0	<input checked="" type="checkbox"/>								
+  LTM Virtual IP Count		1	p_4400	yes	yes	--	--	0	<input checked="" type="checkbox"/>								
+  LTM Virtual Server Count		1	p_4398	yes	yes	--	--	0	<input checked="" type="checkbox"/>								
Misc Collection Object *										Cid	Found	Collecting	Edited By				
+  Discovery Object					o_13478	no	yes	--	<input checked="" type="checkbox"/>								
+ F5 BIG-IP: Interface Usage (64Bit)	1222	5 mins	SNMP Performance	Default SNMP Credential							<input type="checkbox"/>						
+ F5 BIG-IP: Performance	1217	15 mins	SNMP Performance	Default SNMP Credential							<input type="checkbox"/>						
+ Net-SNMP: CPU	564	5 mins	SNMP Performance	Default SNMP Credential							<input type="checkbox"/>						
+ Net-SNMP: Physical Memory	565	5 mins	SNMP Performance	Default SNMP Credential							<input type="checkbox"/>						
+ Net-SNMP: Swap	566	5 mins	SNMP Performance	Default SNMP Credential							<input type="checkbox"/>						
+ F5 BIG-IP: Disk Array Status	1221	60 mins	SNMP Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ F5 BIG-IP: System Configuration	1215	360 mins	SNMP Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ Host Resource: CPU Config	470	1440 mins	SNMP Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ Host Resource: Software	467	120 mins	SNMP Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ System Uptime: hrSystemUptime	932	5 mins	SNMP Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ System Uptime: sysUptime	931	5 mins	SNMP Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ F5 BIG-IP LTM: Service Discovery	1201	120 mins	Snippet Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ Host Resource: Memory Config	469	1440 mins	Snippet Configuration	Default SNMP Credential							<input type="checkbox"/>						
+ Support: File System	719	120 mins	Snippet Configuration	Default SNMP Credential							<input type="checkbox"/>						

[Select Action]

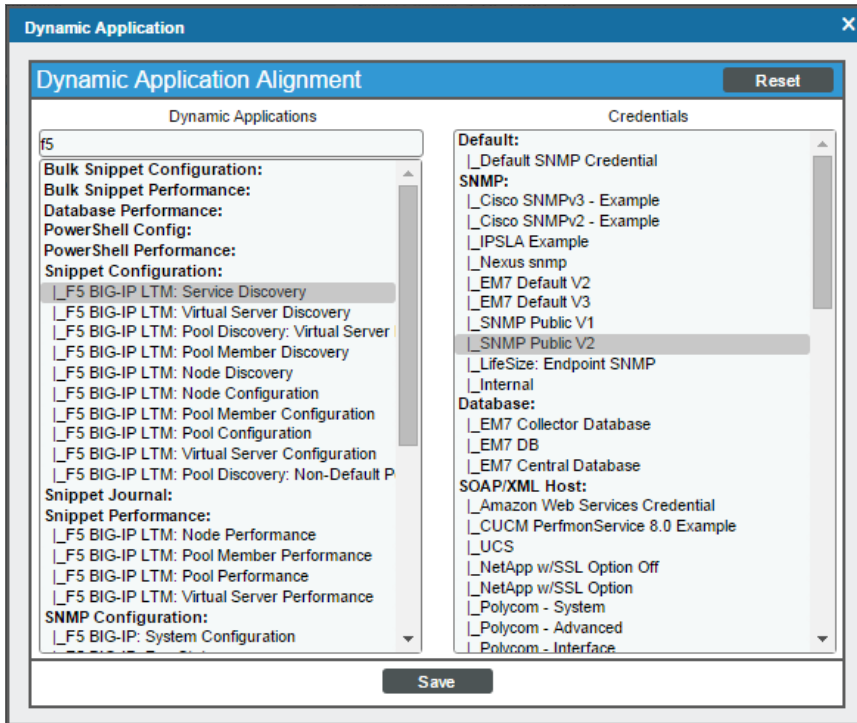
- Click a graph icon (📊) for any of the "F5 BIG-IP LTM: Component Counts" presentation objects to view the collected data for that presentation object. The **Device Performance** page displays the number of components that are being monitored.



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:

- Go to the **Device Properties** page (Registry > Devices > wrench icon) for the BIG-IP system.
- 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:




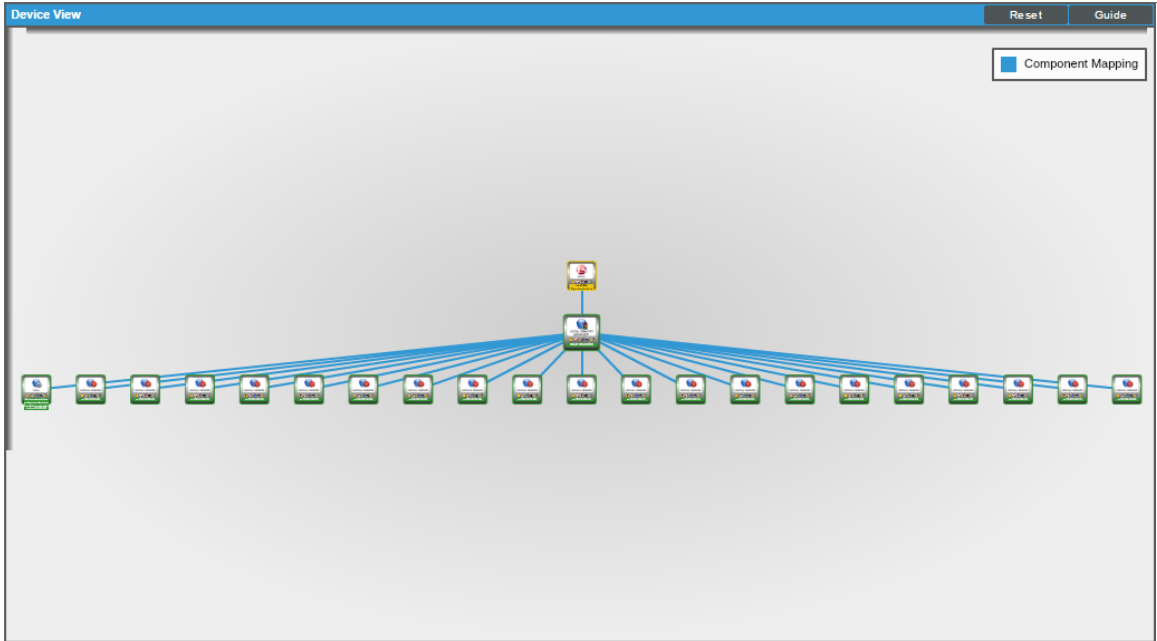
4. In the **Dynamic Applications** field, select *F5 BIG-IP LTM: Service Discovery*.
5. In the **Credentials** field, select the SNMP credential for the BIG-IP system.
6. Click the **[Save]** button.

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 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:

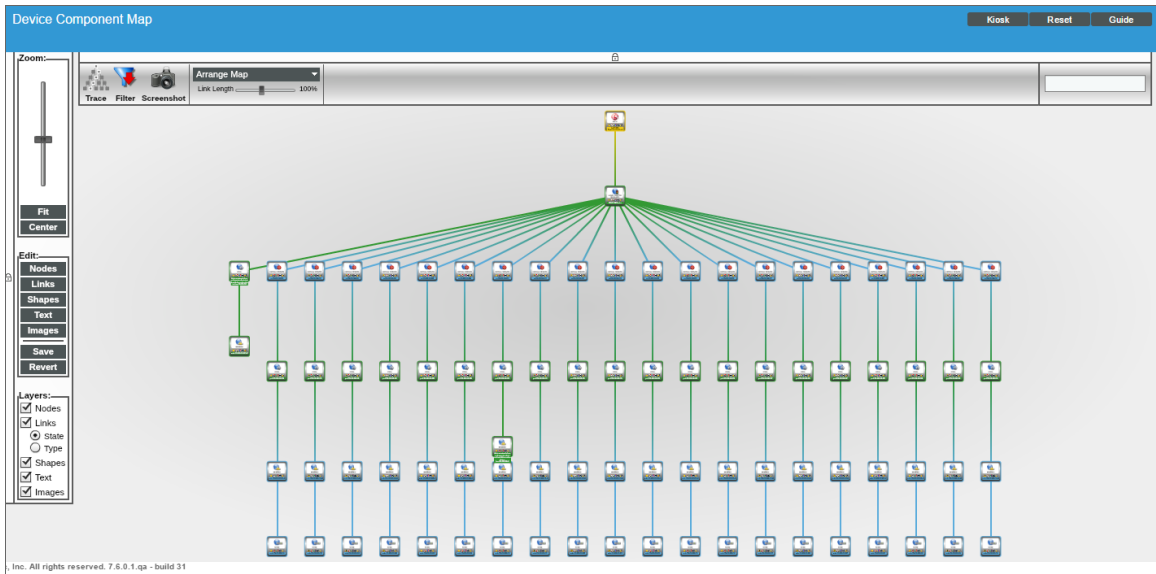


- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with an F5 BIG-IP system, find the BIG-IP device and click its plus icon (+):

The screenshot shows the 'Device Components | Devices Found [9]' page. The 'BIG-IP LTM Service' is expanded, showing a list of child devices. The table below represents the data shown in the screenshot.

Device Name	IP Address	Device Category	Device Class Sub-class	DID	System	Organization	Current State	Collection Group	Collection State
BIG-IP LTM Service	--	Application	F5 Networks, Inc. BIG-IP Local Traffic Manager	1228	System	Organization	Healthy	CUG	Active
pool-172-030-000-001	--	Application	F5 Networks, Inc. BIG-IP LTM Pool	1561	System	Organization	Healthy	CUG	Active
node-172-030-001-80	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1578	System	Organization	Notice	CUG	Active
node-172-030-000-001	--	Application	F5 Networks, Inc. BIG-IP LTM Pool	1599	System	Organization	Healthy	CUG	Active
node-172-030-001-80	--	Application	F5 Networks, Inc. BIG-IP LTM Pool Membe	1620	System	Organization	Notice	CUG	Active
node-172-030-000-001	--	Application	F5 Networks, Inc. BIG-IP LTM Node	1640	System	Organization	Notice	CUG	Active
vs-172-030-128-002	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1590	System	Organization	Notice	CUG	Active
vs-172-030-128-003	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1576	System	Organization	Notice	CUG	Active
vs-172-030-128-004	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1564	System	Organization	Notice	CUG	Active
vs-172-030-128-005	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1570	System	Organization	Notice	CUG	Active
vs-172-030-128-006	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1579	System	Organization	Notice	CUG	Active
vs-172-030-128-007	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1577	System	Organization	Notice	CUG	Active
vs-172-030-128-008	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1567	System	Organization	Notice	CUG	Active
vs-172-030-128-009	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1566	System	Organization	Notice	CUG	Active
vs-172-030-128-010	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1568	System	Organization	Notice	CUG	Active
vs-172-030-128-011	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1569	System	Organization	Notice	CUG	Active
vs-172-030-128-012	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1561	System	Organization	Notice	CUG	Active
vs-172-030-128-013	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1571	System	Organization	Notice	CUG	Active
vs-172-030-128-014	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1572	System	Organization	Notice	CUG	Active
vs-172-030-128-015	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1573	System	Organization	Notice	CUG	Active
vs-172-030-128-016	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1574	System	Organization	Notice	CUG	Active
vs-172-030-128-017	--	Application	F5 Networks, Inc. BIG-IP LTM Virtual Server	1575	System	Organization	Notice	CUG	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

3

F5 BIG-IP Dashboards

Overview

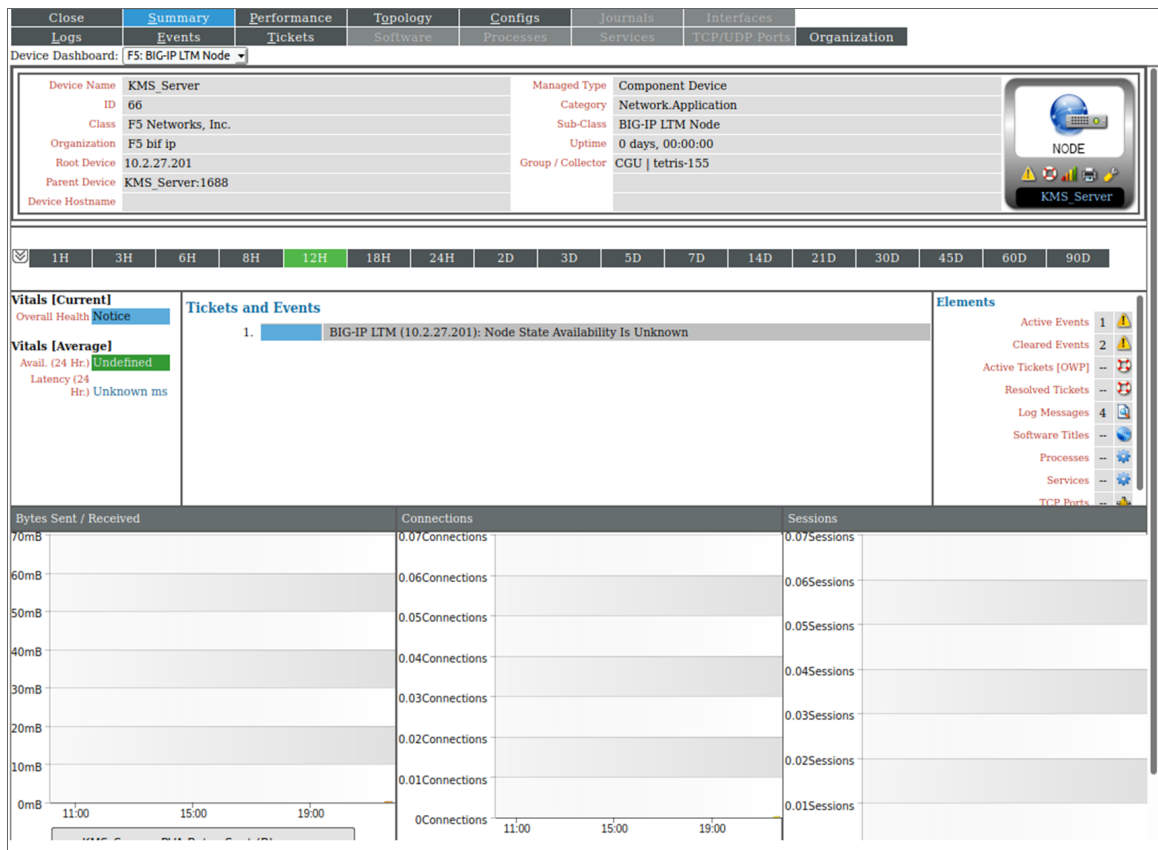
The following sections describe the device dashboards that are included in the *F5 BIG-IP* PowerPack:

<i>Device Dashboards</i>	16
<i>F5: BIG-IP LTM Node</i>	17
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<i>F5: BIG-IP Root Device</i>	21

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.

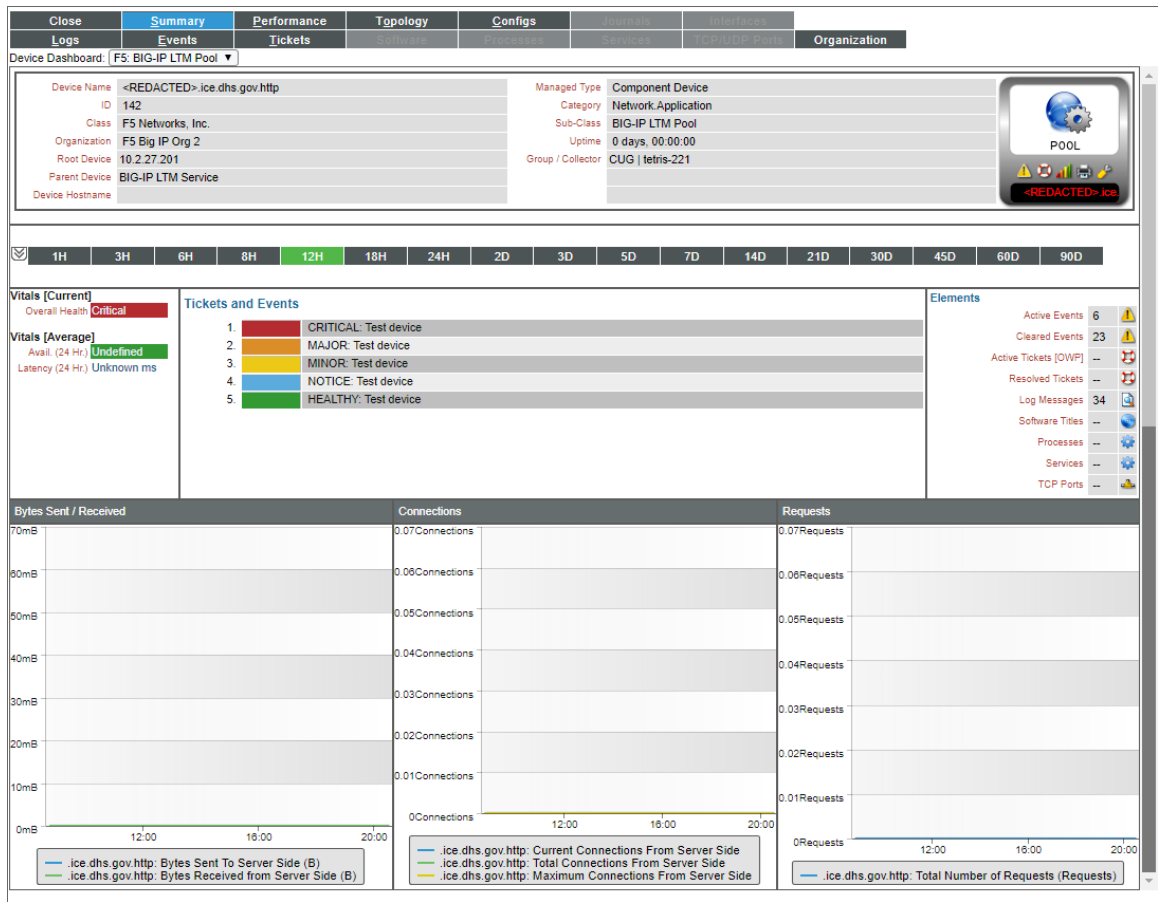
F5: BIG-IP LTM Node



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

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

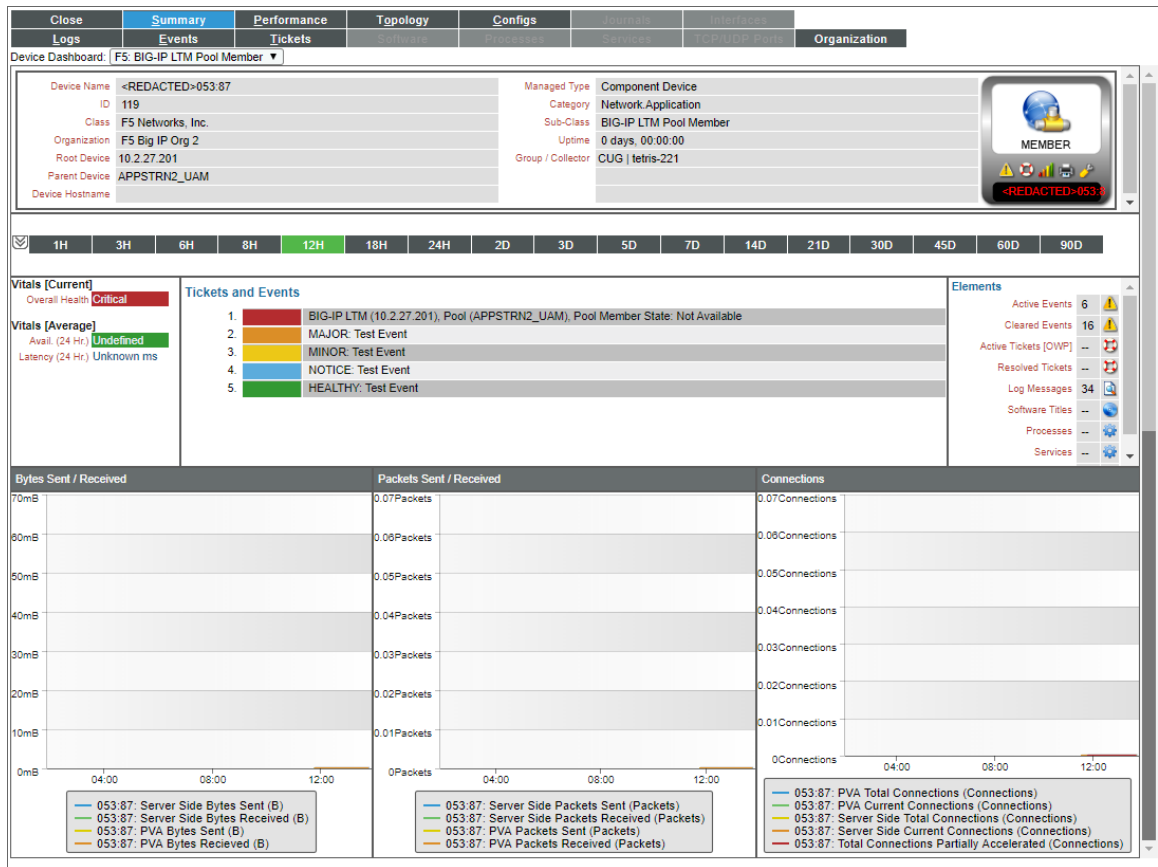
F5: BIG-IP LTM Pool



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

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

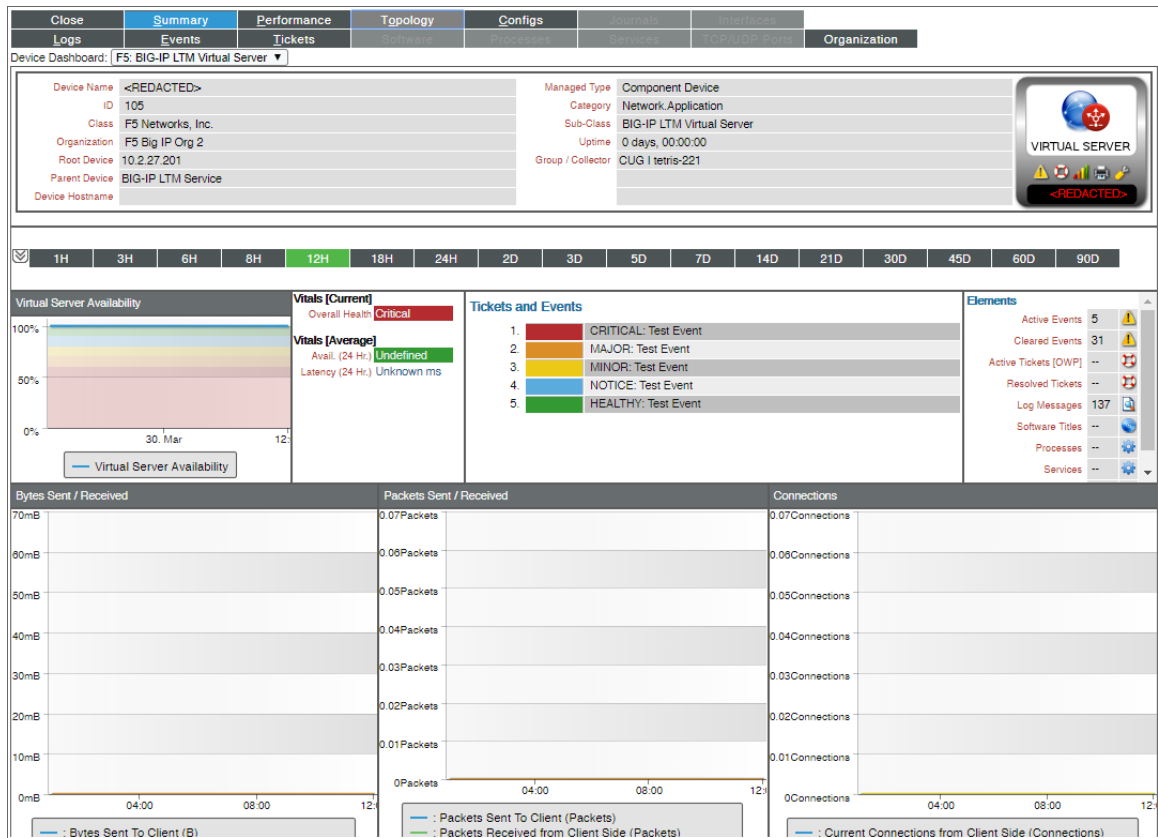
F5: BIG-IP LTM Pool Member



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

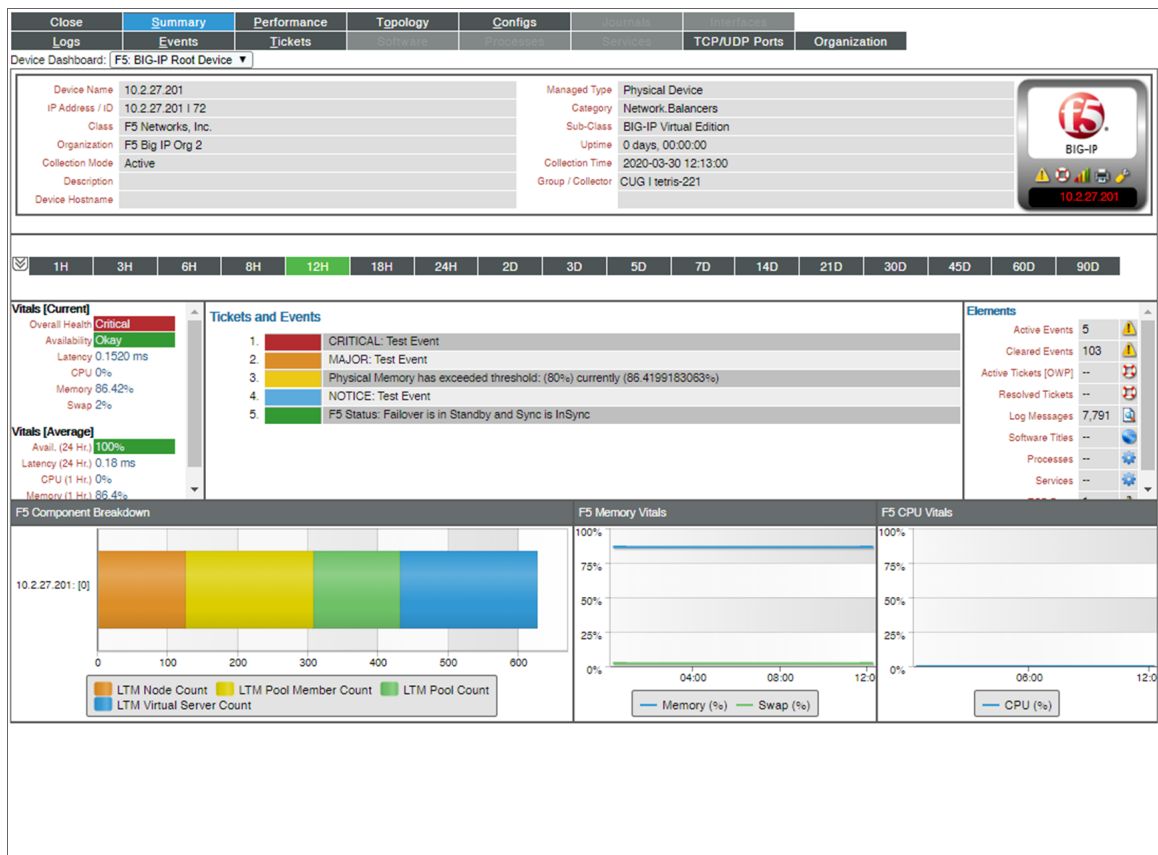
F5: BIG-IP LTM Virtual Server



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



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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