



---

# Monitoring F5 BIG-IP

F5 BIG-IP PowerPack version 104

---

# Table of Contents

<b>Introduction</b> .....	<b>3</b>
What is F5 BIG-IP LTM? .....	3
What Does the F5 BIG-IP PowerPack Monitor? .....	4
Installing the F5 BIG-IP PowerPack .....	4
<b>Configuration and Discovery</b> .....	<b>6</b>
Prerequisites for Monitoring F5 BIG-IP .....	6
Creating an SNMP Credential for F5 BIG-IP .....	7
Creating an SNMP Credential for F5 BIG-IP in the SL1 Classic User Interface .....	7
Discovering an F5 BIG-IP System .....	8
Discovering an F5 BIG-IP System in the SL1 Classic User Interface .....	10
Aligning F5 BIG-IP Dynamic Applications .....	11
Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device .....	14
Aligning F5 BIG-IP Dynamic Applications in the SL1 Classic User Interface .....	16
Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device in the SL1 Classic User Interface .....	18
Viewing Component Devices .....	20
Viewing Component Devices in the SL1 Classic User Interface .....	22
<b>F5 BIG-IP Dashboards</b> .....	<b>25</b>
Device Dashboards .....	25
F5: BIG-IP LTM Node .....	26
F5: BIG-IP LTM Pool .....	27
F5: BIG-IP LTM Pool Member .....	28
F5: BIG-IP LTM Virtual Server .....	29
F5: BIG-IP Root Device .....	30

---

# 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*:

This chapter covers the following topics:

<a href="#">What is F5 BIG-IP LTM?</a> .....	3
<a href="#">What Does the F5 BIG-IP PowerPack Monitor?</a> .....	4
<a href="#">Installing the F5 BIG-IP PowerPack</a> .....	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 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

---

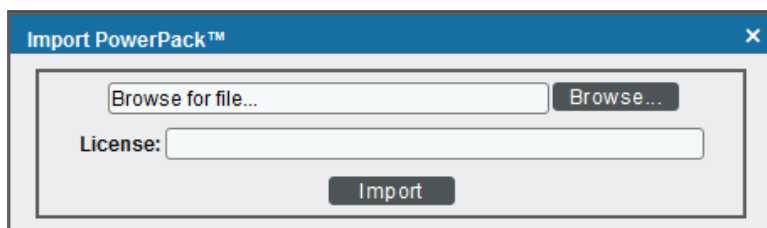
## Installing the F5 BIG-IP PowerPack

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 Support Site at <https://support.sciencelogic.com/s/powerpacks>.
2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*. The **Import PowerPack** dialog box appears:



4. Click the **[Browse]** button and navigate to the PowerPack file.
5. 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*:

This chapter covers the following topics:

<i>Prerequisites for Monitoring F5 BIG-IP</i> .....	6
<i>Creating an SNMP Credential for F5 BIG-IP</i> .....	7
<i>Discovering an F5 BIG-IP System</i> .....	8
<i>Aligning F5 BIG-IP Dynamic Applications</i> .....	11
<i>Viewing Component Devices</i> .....	20

---

### 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 **Credentials** page (Manage > Credentials).
2. Click the **[Create New]** button.
3. In the drop-down list that appears, select *Create SNMP Credential*. The **Credential Editor** page appears:

The screenshot shows the 'Create Credential' dialog box. It has a title bar with 'Create Credential' and a close button. The main area is divided into two panels. The left panel contains fields for 'Name', 'All Organizations' (with a toggle), 'Select the organizations the credential belongs to', 'Timeout (ms)' (1500), 'SNMP Version' (SNMP V2), 'SNMP Retries' (1), 'Port' (161), and two 'SNMP Community' fields (Read Only and Read/Write). The right panel is titled 'Credential Tester' and has 'Select Credential Test', 'Select Collector' (CUG | s11alo2: 10.128.68.27), and 'IP or Hostname to test' fields, along with a 'Test Credential' button. A 'Close' button is at the bottom right.

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

## Creating an SNMP Credential for F5 BIG-IP in the SL1 Classic User Interface

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 title 'Create New SNMP Credential'. It features a 'Reset' button in the top right corner. The form is organized into three main sections: 'Basic Settings', 'SNMP V1/V2 Settings', and 'SNMP V3 Settings'.  
- **Basic Settings:** Includes a 'Profile Name' text field, an 'SNMP Version' dropdown menu (currently set to '[ SNMP V2 ]'), a 'Port' text field (value: 161), a 'Timeout(ms)' text field (value: 1500), and a 'Retries' text field (value: 1).  
- **SNMP V1/V2 Settings:** Includes two text fields for 'SNMP Community (Read-Only)' and 'SNMP Community (Read/Write)'.  
- **SNMP V3 Settings:** Includes text fields for 'Security Name' and 'Security Passphrase', dropdown menus for 'Authentication Protocol' (value: '[ MD5 ]') and 'Security Level' (value: '[ Authentication Only ]'), a text field for 'SNMP v3 Engine ID', a text field for 'Context Name', a dropdown menu for 'Privacy Protocol' (value: '[ DES ]'), and a text field for 'Privacy Protocol Pass Phrase'.  
A 'Save' button is located at the bottom center of the form.

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.

---

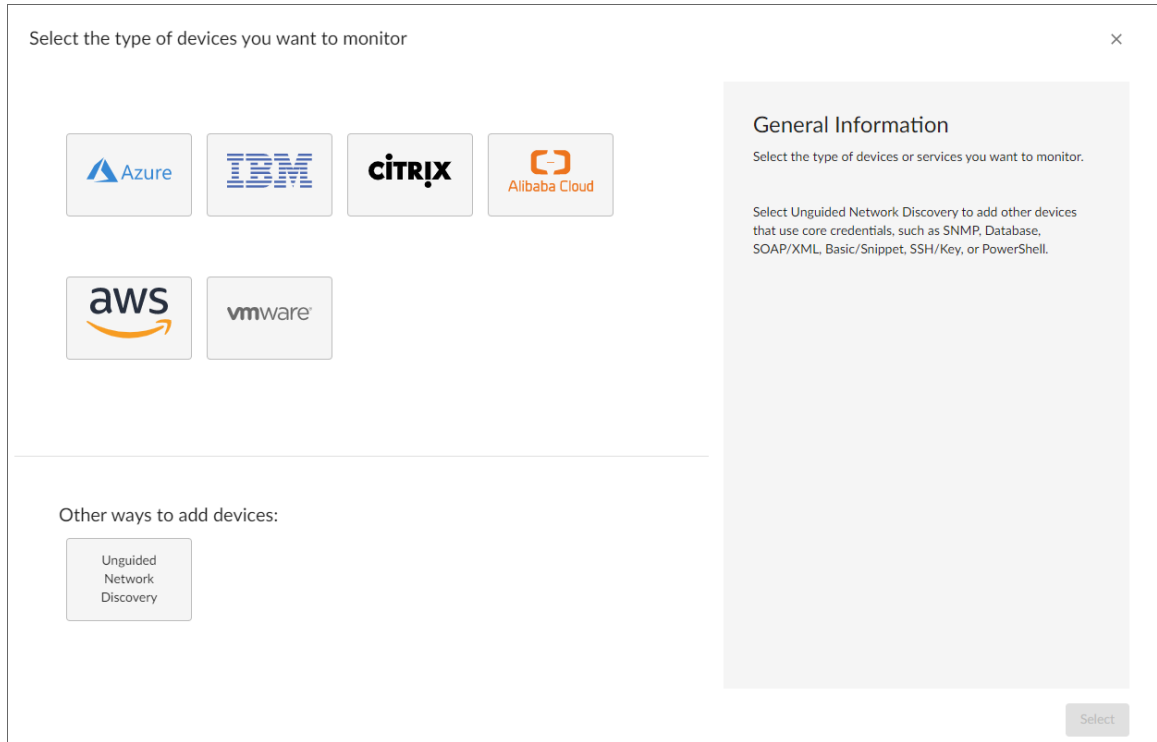
## Discovering an F5 BIG-IP System

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 Session** page (Devices > Discovery Sessions).
2. Click the **[Add Devices]** button to create a new discovery session. You will be redirected to a self-guided service where you can add devices.



3. Select **[Unguided Network Discovery]**, then click the **Select** button. You will be redirected to a page where you can create and create a Discovery Session that will discover the BIG-IP system and automatically align Dynamic Applications with the BIG-IP system. This is a 3-step process.
4. Enter a name for your Discovery Session in the **Discovery Session Name** field and select an organization from the **Select the organization to add discovered devices to** drop-down field.

The screenshot shows a multi-step form titled 'Discovery Session Editor'. The current step is 'Step 1: Basic Information'. The form includes the following fields:

- Discovery Session Name\***: A required text input field.
- Description (Optional)**: An optional text input field.
- Select the organization to add discovered devices to...\***: A dropdown menu with a downward arrow.

Navigation buttons are located at the bottom: a 'Back' button on the left and a 'Next' button on the right.

5. Select the SNMP credential(s) that connected your devices, then click the **Next** button.
6. Select an IP or Hostname, then click the **[Save and Run]** button. The **Discovery Logs** window will appear.
7. When the BIG-IP system is discovered, you can click the device name to view the system device's properties.

## Discovering an F5 BIG-IP System in the SL1 Classic User Interface

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 (Devices > Discovery Sessions).
2. Click the **[Add Devices]** button to create a new discovery session. The **Discovery Session Editor** window appears:

The screenshot shows the 'Discovery Session Editor | Create New' window. It has a title bar with 'New' and 'Reset' buttons. The main content is organized into four columns:

- Identification Information:** Fields for 'Name' and 'Description'.
- IP and Credentials:** Includes 'IP Address/Hostname Discovery List' with an 'Upload File' button and a 'Browse for file...' button. Below are 'SNMP Credentials' and 'Other Credentials' lists.
- Detection and Scanning:** Contains several dropdown menus for 'Initial Scan Level', 'Scan Throttle', 'Port Scan All IPs', and 'Port Scan Timeout'. A 'Detection Method & Port' list is visible, with 'UDP: 161 SNMP' selected. Below are input fields for 'Interface Inventory Timeout (ms)' (600000) and 'Maximum Allowed Interfaces' (10000), and a 'Bypass Interface Inventory' checkbox.
- Basic Settings:** Includes checkboxes for 'Discover Non-SNMP', 'Model Devices' (checked), and 'DHCP'. There are also input fields for 'Device Model Cache TTL (h)' (2) and 'Collection Server PID' (ayoung-dist-cu-251), a dropdown for 'Organization' ([ System ]), and a section for 'Add Devices to Device Group(s)' with a list containing 'None Servers'. At the bottom is an 'Apply Device Template' dropdown.

At the bottom of the window, there is a 'Save' button and a 'Log All' checkbox.

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 (⚡) to run the discovery session.
7. 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.

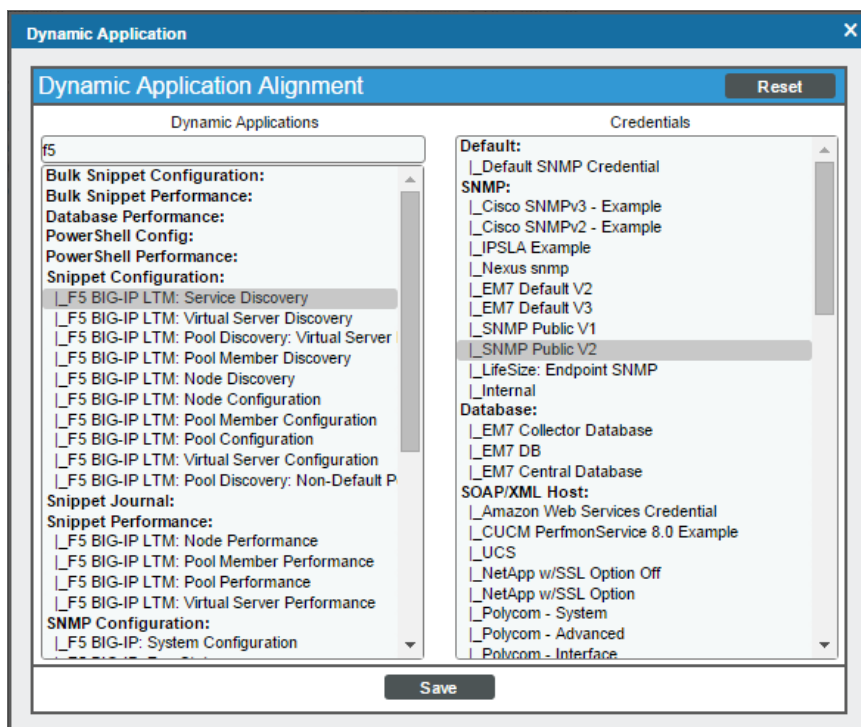
The following Dynamic Applications are aligned automatically to the F5 BIG-IP system when you run discovery:

- 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 Manager** page (Devices > Device Manager) 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.

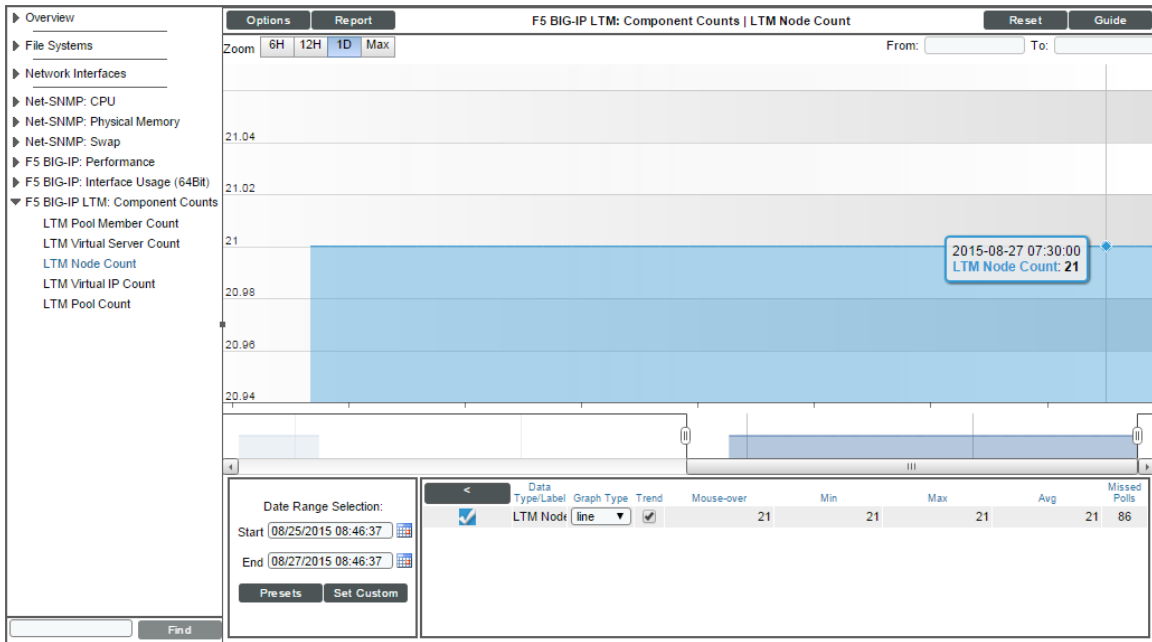
To determine the BIG-IP component device count:

1. Go to the **Device Manager** page (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													
Presentation Object •										Version	Pid	Found	Collecting	Group	Label	Precedence	<input checked="" type="checkbox"/>
+  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	<input checked="" type="checkbox"/>			
 Discovery Object				p_13478	no	yes	--		<input checked="" type="checkbox"/>								
+ F5 BIG-IP: Interface Usage (64Bit)	1222	5 mins	SNMP Performance	Default SNMP Credential													
+ F5 BIG-IP: Performance	1217	15 mins	SNMP Performance	Default SNMP Credential													
+ Net-SNMP: CPU	564	5 mins	SNMP Performance	Default SNMP Credential													
+ Net-SNMP: Physical Memory	565	5 mins	SNMP Performance	Default SNMP Credential													
+ Net-SNMP: Swap	566	5 mins	SNMP Performance	Default SNMP Credential													
+ F5 BIG-IP: Disk Array Status	1221	60 mins	SNMP Configuration	Default SNMP Credential													
+ F5 BIG-IP: System Configuration	1215	360 mins	SNMP Configuration	Default SNMP Credential													
+ Host Resource: CPU Config	470	1440 mins	SNMP Configuration	Default SNMP Credential													
+ Host Resource: Software	467	120 mins	SNMP Configuration	Default SNMP Credential													
+ System Uptime: hrSystemUptime	932	5 mins	SNMP Configuration	Default SNMP Credential													
+ System Uptime: sysUptime	931	5 mins	SNMP Configuration	Default SNMP Credential													
+ F5 BIG-IP LTM: Service Discovery	1201	120 mins	Snippet Configuration	Default SNMP Credential													
+ Host Resource: Memory Config	469	1440 mins	Snippet Configuration	Default SNMP Credential													
+ Support: File System	719	120 mins	Snippet Configuration	Default SNMP Credential													

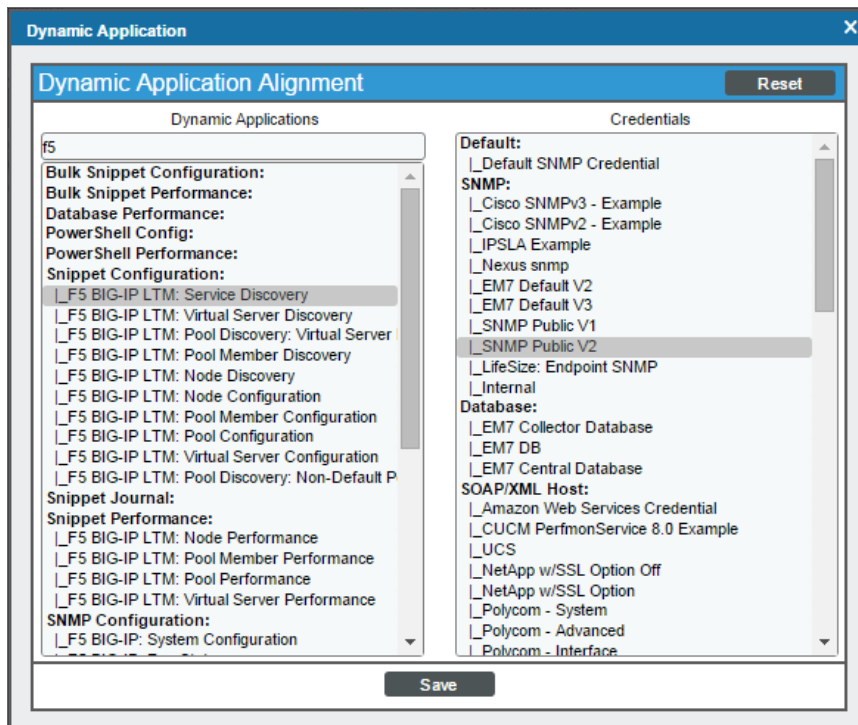
[Select Action]

5. 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:

1. Go to the **Device Manager** page (Devices > Device Manager).
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.

## Aligning F5 BIG-IP Dynamic Applications in the SL1 Classic User Interface

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



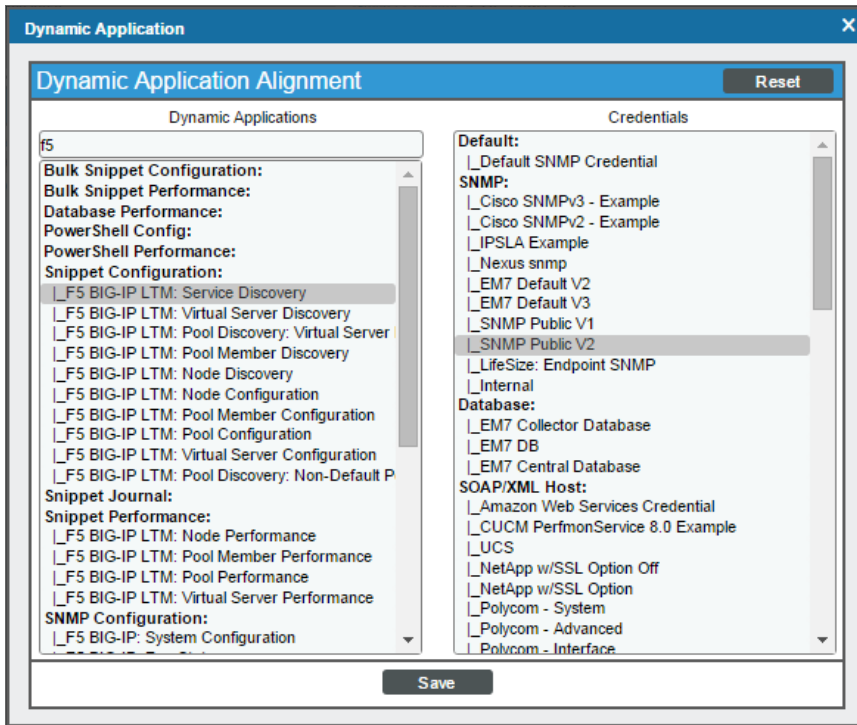
- F5 BIG-IP: Disk Array Status
- F5 BIG-IP: Fan Status
- F5 BIG-IP: Interface Usage (64Bit)
- F5 BIG-IP: Performance
- F5 BIG-IP: Power Supply Status
- F5 BIG-IP: System Configuration
- F5 BIG-IP: Temperature
- F5 BIG-IP: vCMP VM Configuration
- F5 BIG-IP LTM: Node Configuration
- F5 BIG-IP LTM: Node 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.

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



- In the **Dynamic Applications** field, select the Dynamic Application that you want to align to the BIG-IP system.
- In the **Credentials** field, select the SNMP credential for the BIG-IP system.
- Click the **[Save]** button.

## Manually Aligning the "F5 BIG IP LTM: Service Discovery" Dynamic Application with the BIG-IP Root Device in the SL1 Classic User Interface

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.

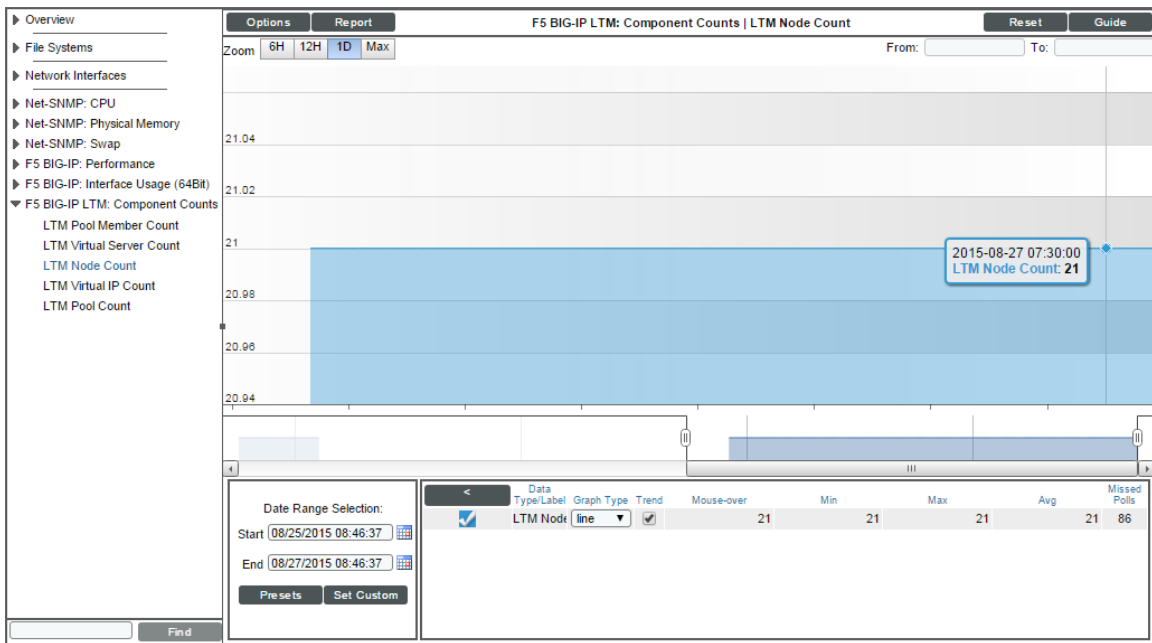
To determine the BIG-IP component device count:

- Go to the **Device Manager** page (Registry > Devices > Device Manager).
- Click the wrench icon (🔧) for the BIG-IP system.
- In the **Device Administration** panel, click the **[Collections]** tab. The **Dynamic Application Collections** page displays.

- 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:

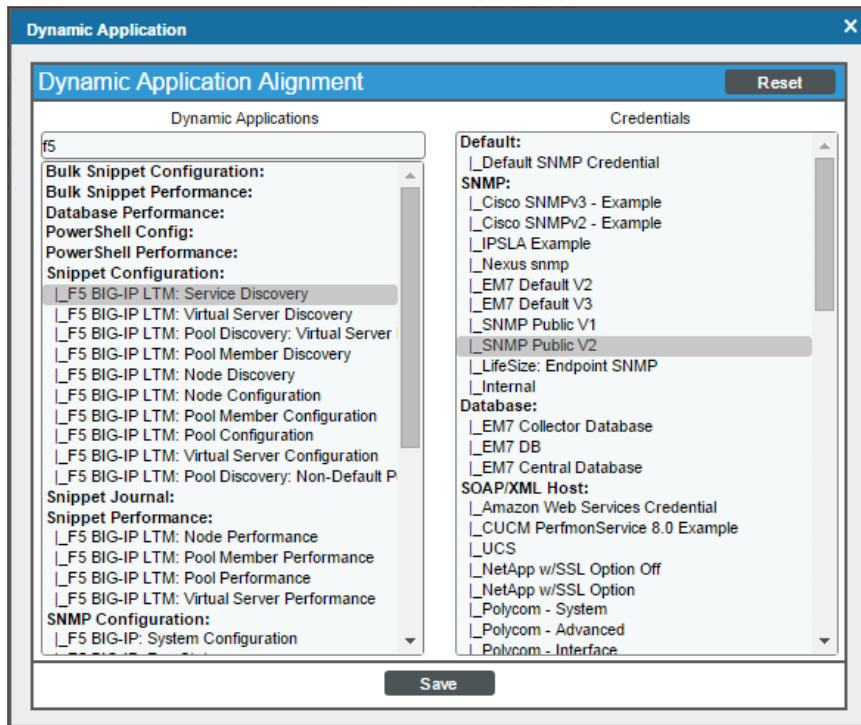
Dynamic Application™ Collections										Expand	Actions	Reset	Guide			
Dynamic Application										ID	Poll Frequency	Type	Credential			
F5 BIG-IP LTM: Component Counts										1223	15 mins	SNMP Performance	Default SNMP Credential			
Presentation Object •										Version	Pid	Found	Collecting	Group	Label	Precedence
+ 📊	LTM Node Count	1	p_4399	yes	yes	--	--	0	✓							
+ 📊	LTM Pool Count	1	p_4401	yes	yes	--	--	0	✓							
+ 📊	LTM Pool Member Count	1	p_4397	yes	yes	--	--	0	✓							
+ 📊	LTM Virtual IP Count	1	p_4400	yes	yes	--	--	0	✓							
+ 📊	LTM Virtual Server Count	1	p_4398	yes	yes	--	--	0	✓							
Misc Collection Object •										Cid	Found	Collecting	Edited By			
📊	Discovery Object		o_13478	no	yes	--	--		✓							
+ 📊	F5 BIG-IP: Interface Usage (64Bit)	1222	5 mins	SNMP Performance	Default SNMP Credential				✓							
+ 📊	F5 BIG-IP: Performance	1217	15 mins	SNMP Performance	Default SNMP Credential				✓							
+ 📊	Net-SNMP: CPU	564	5 mins	SNMP Performance	Default SNMP Credential				✓							
+ 📊	Net-SNMP: Physical Memory	585	5 mins	SNMP Performance	Default SNMP Credential				✓							
+ 📊	Net-SNMP: Swap	566	5 mins	SNMP Performance	Default SNMP Credential				✓							
+ 📊	F5 BIG-IP: Disk Array Status	1221	60 mins	SNMP Configuration	Default SNMP Credential				✓							
+ 📊	F5 BIG-IP: System Configuration	1215	360 mins	SNMP Configuration	Default SNMP Credential				✓							
+ 📊	Host Resource: CPU Config	470	1440 mins	SNMP Configuration	Default SNMP Credential				✓							
+ 📊	Host Resource: Software	467	120 mins	SNMP Configuration	Default SNMP Credential				✓							
+ 📊	System Uptime: hrSystemUptime	932	5 mins	SNMP Configuration	Default SNMP Credential				✓							
+ 📊	System Uptime: sysUptime	931	5 mins	SNMP Configuration	Default SNMP Credential				✓							
+ 📊	F5 BIG-IP LTM: Service Discovery	1201	120 mins	Snippet Configuration	Default SNMP Credential				✓							
+ 📊	Host Resource: Memory Config	469	1440 mins	Snippet Configuration	Default SNMP Credential				✓							
+ 📊	Support: File System	719	120 mins	Snippet Configuration	Default SNMP Credential				✓							

- 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:

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.

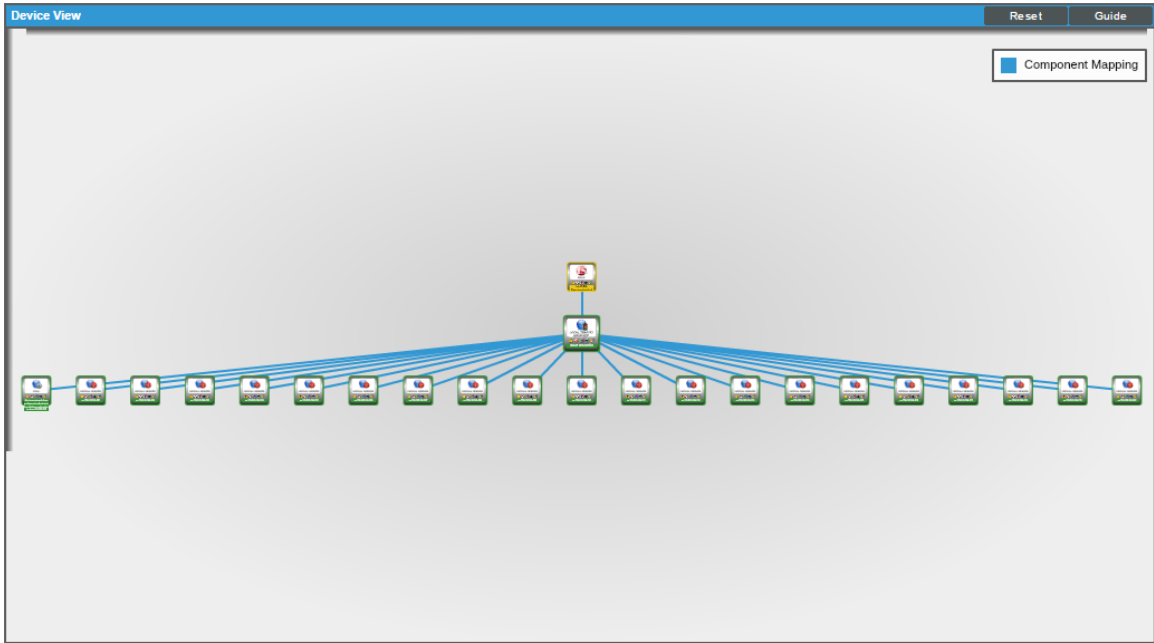
---

## 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 Investigator** page (Devices > Map) modal page 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:

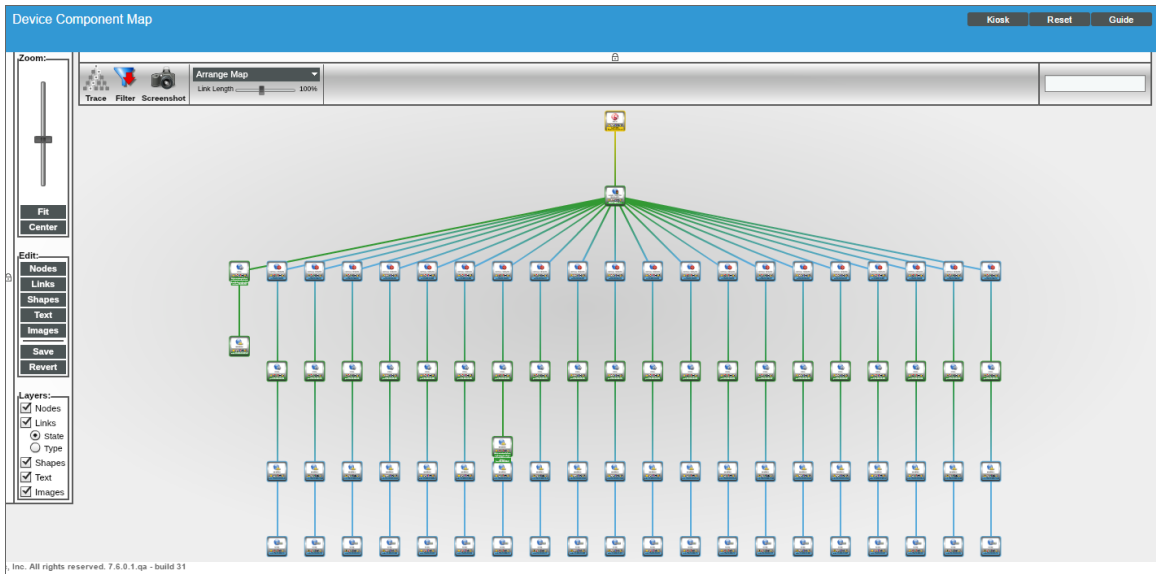


- The **Device Components** page (Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices 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 virtual servers. The table below represents the data shown in the screenshot.

Device Name	IP Address	Application	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		Healthy	CUG	Active
pool-172-030-000-001	--	Application	F5 Networks, Inc.	BIG-IP LTM Pool	1599	System		Healthy	CUG	Active
node-172-030-000-001	--	Application	F5 Networks, Inc.	BIG-IP LTM Pool Member	1620	System		Notice	CUG	Active
vs-172-030-128-002	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1590	System		Notice	CUG	Active
vs-172-030-128-003	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1576	System		Notice	CUG	Active
vs-172-030-128-004	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1564	System		Notice	CUG	Active
vs-172-030-128-005	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1570	System		Notice	CUG	Active
vs-172-030-128-006	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1579	System		Notice	CUG	Active
vs-172-030-128-007	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1577	System		Notice	CUG	Active
vs-172-030-128-008	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1567	System		Notice	CUG	Active
vs-172-030-128-010	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1568	System		Notice	CUG	Active
vs-172-030-128-011	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1569	System		Notice	CUG	Active
vs-172-030-128-012	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1581	System		Notice	CUG	Active
vs-172-030-128-013	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1571	System		Notice	CUG	Active
vs-172-030-128-014	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1572	System		Notice	CUG	Active
vs-172-030-128-015	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1573	System		Notice	CUG	Active
vs-172-030-128-016	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1574	System		Notice	CUG	Active
vs-172-030-128-017	--	Application	F5 Networks, Inc.	BIG-IP LTM Virtual Server	1575	System		Notice	CUG	Active


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

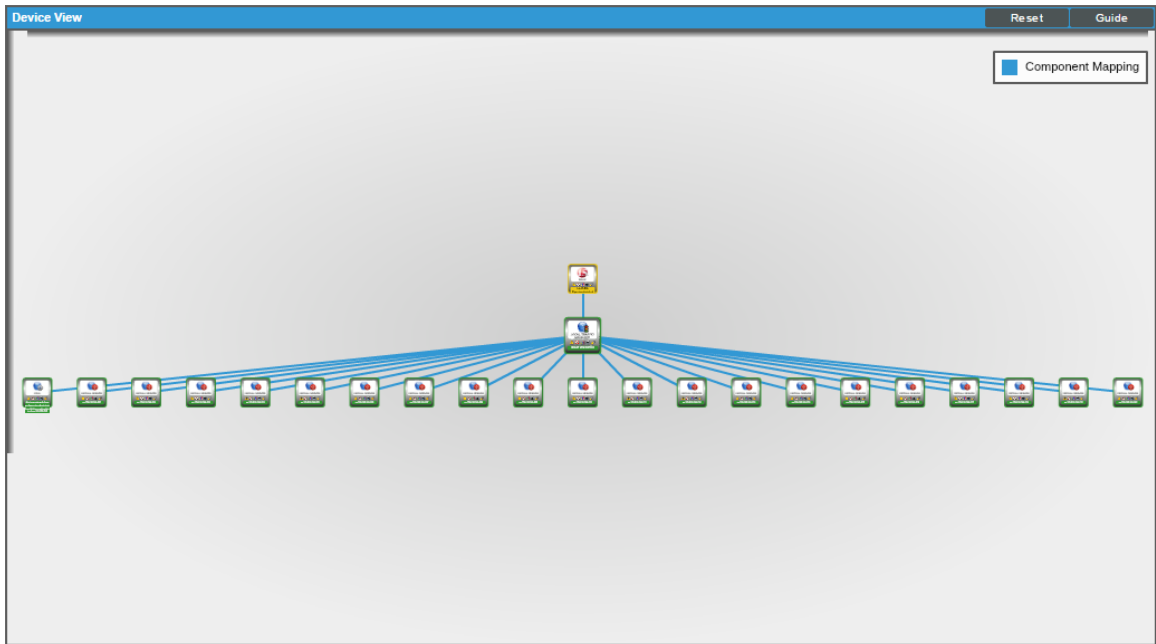


## Viewing Component Devices in the SL1 Classic User Interface

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:

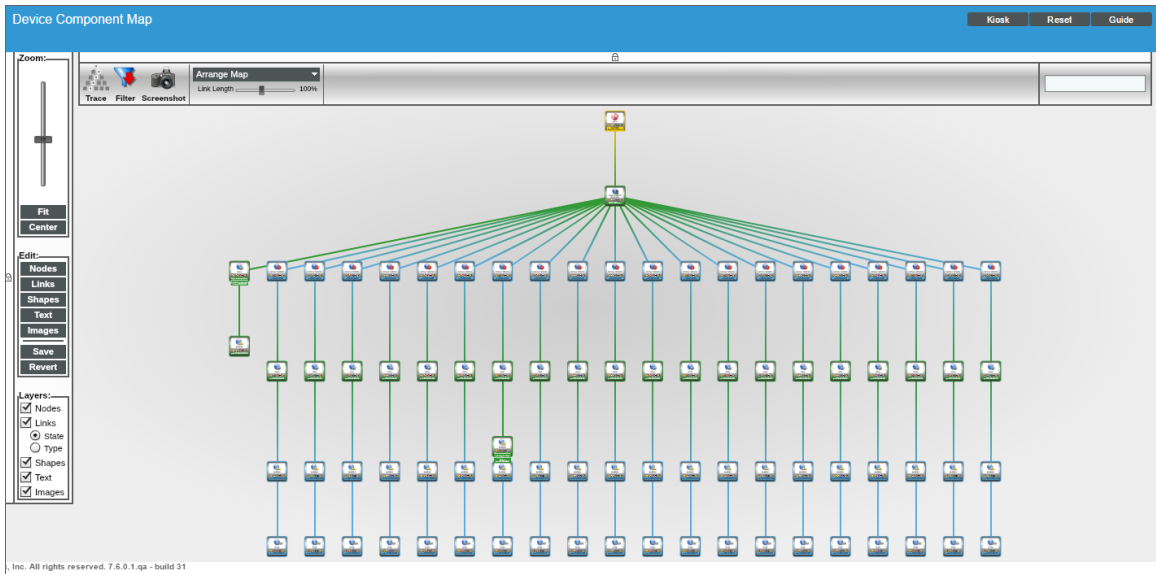
- The **Device View** modal page (click the bar-graph icon  for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device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

Device Components   Devices Found [9]										Actions	Reset	Guide
8.	Lab-F5-BIG-IP-qa-sciencelocal	10.0.13.11	Application	F5 Networks, Inc.   BIG-IP Virtual Edition	1227	System	Minor	CUG	Active			
1.	BIG-IP LTM Service		Application	F5 Networks, Inc.   BIG-IP Local Traffic Manager	1228	System	Healthy	CUG	Active			
1.	+											
1.	+	this-is-an-extremely-long-pool-name-in-ord	Application	F5 Networks, Inc.   BIG-IP LTM Pool	1561	System	Healthy	CUG	Active			
2.	+	vs-172-030-128-001	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1578	System	Notice	CUG	Active			
1.	+	pool-172-030-000-001	Application	F5 Networks, Inc.   BIG-IP LTM Pool	1599	System	Healthy	CUG	Active			
1.	+	node-172-030-000-001	Application	F5 Networks, Inc.   BIG-IP LTM Pool Member	1620	System	Notice	CUG	Active			
1.	+	node-172-030-000-001	Application	F5 Networks, Inc.   BIG-IP LTM Node	1640	System	Notice	CUG	Active			
3.	+	vs-172-030-128-002	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1580	System	Notice	CUG	Active			
4.	+	vs-172-030-128-003	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1576	System	Notice	CUG	Active			
5.	+	vs-172-030-128-004	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1564	System	Notice	CUG	Active			
6.	+	vs-172-030-128-005	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1570	System	Notice	CUG	Active			
7.	+	vs-172-030-128-006	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1579	System	Notice	CUG	Active			
8.	+	vs-172-030-128-007	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1577	System	Notice	CUG	Active			
9.	+	vs-172-030-128-008	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1567	System	Notice	CUG	Active			
10.	+	vs-172-030-128-009	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1566	System	Notice	CUG	Active			
11.	+	vs-172-030-128-010	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1568	System	Notice	CUG	Active			
12.	+	vs-172-030-128-011	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1569	System	Notice	CUG	Active			
13.	+	vs-172-030-128-012	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1581	System	Notice	CUG	Active			
14.	+	vs-172-030-128-013	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1571	System	Notice	CUG	Active			
15.	+	vs-172-030-128-014	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1572	System	Notice	CUG	Active			
16.	+	vs-172-030-128-015	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1573	System	Notice	CUG	Active			
17.	+	vs-172-030-128-016	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1574	System	Notice	CUG	Active			
18.	+	vs-172-030-128-017	Application	F5 Networks, Inc.   BIG-IP LTM Virtual Server	1575	System	Notice	CUG	Active			

- 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 **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:

This chapter covers the following topics:

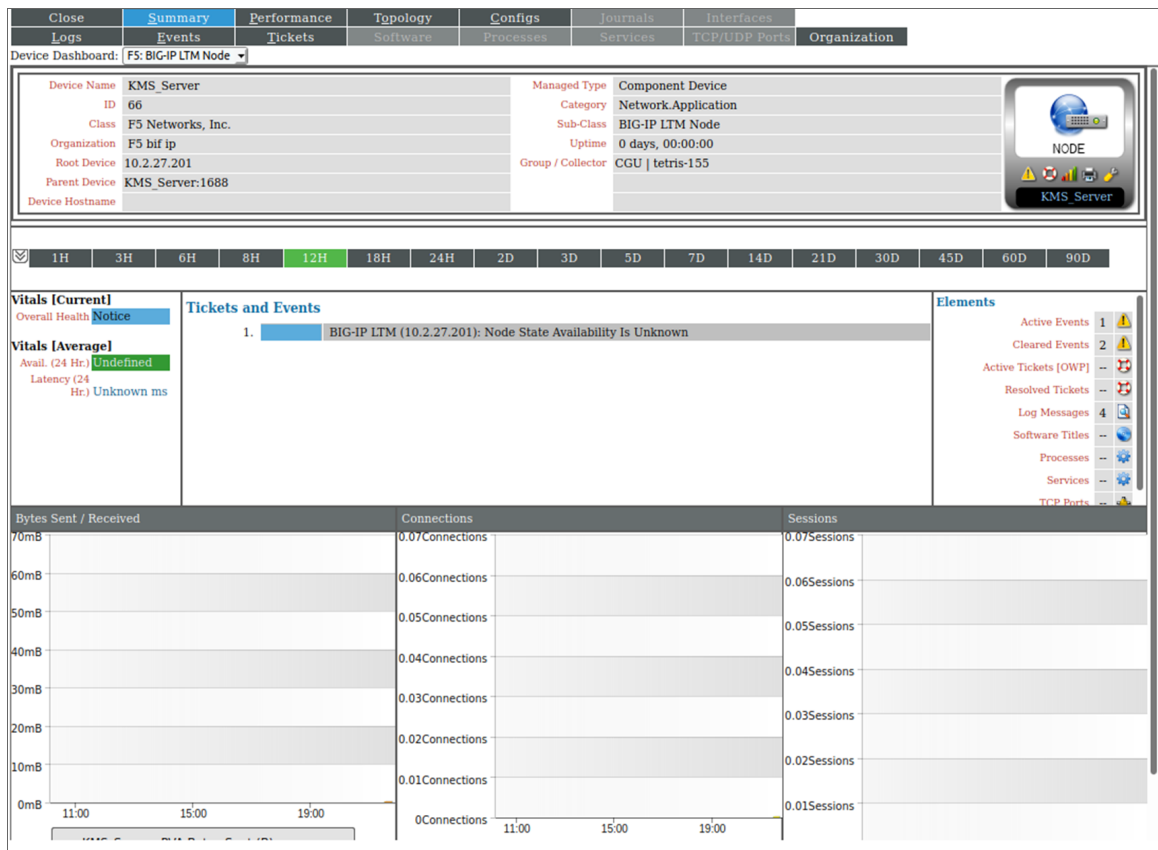
<i>Device Dashboards</i> .....	25
--------------------------------	----

---

### 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.

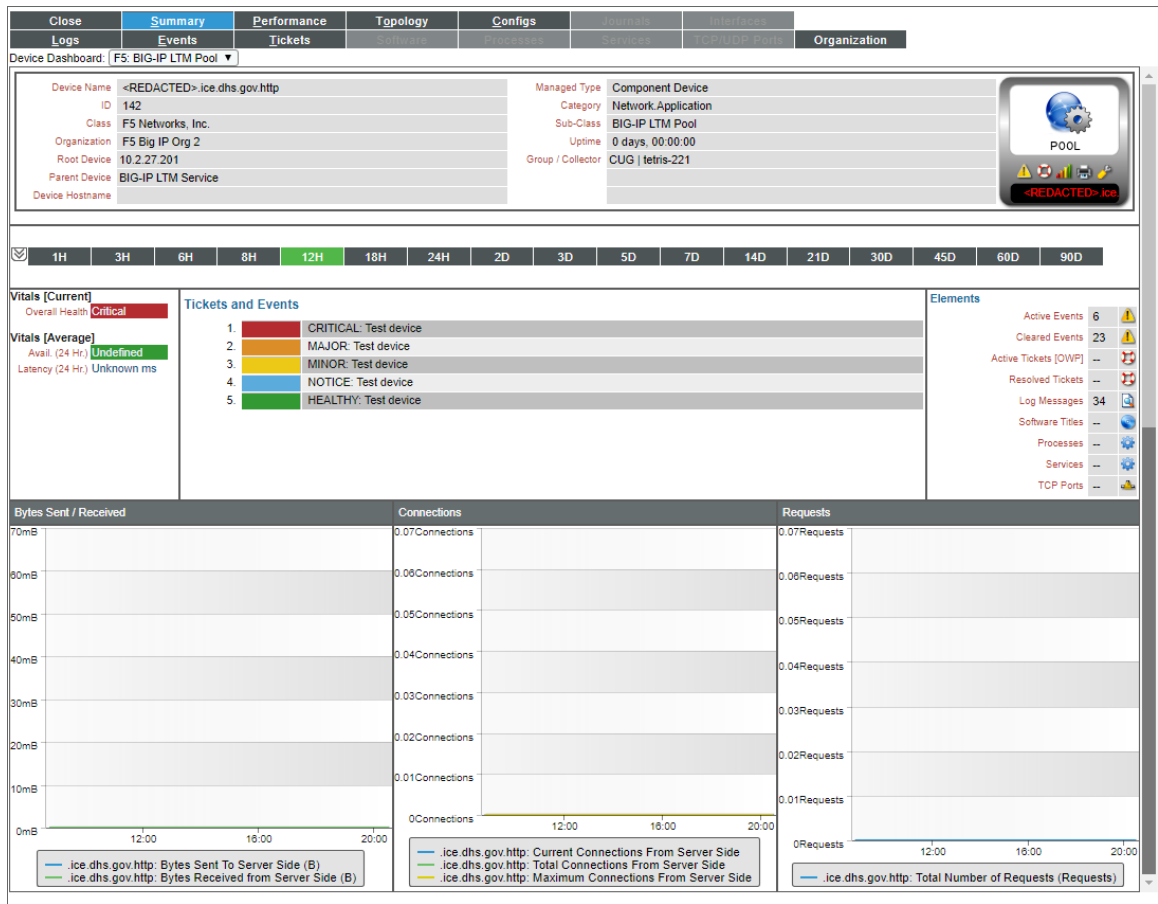
## F5: BIG-IP LTM Node



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

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

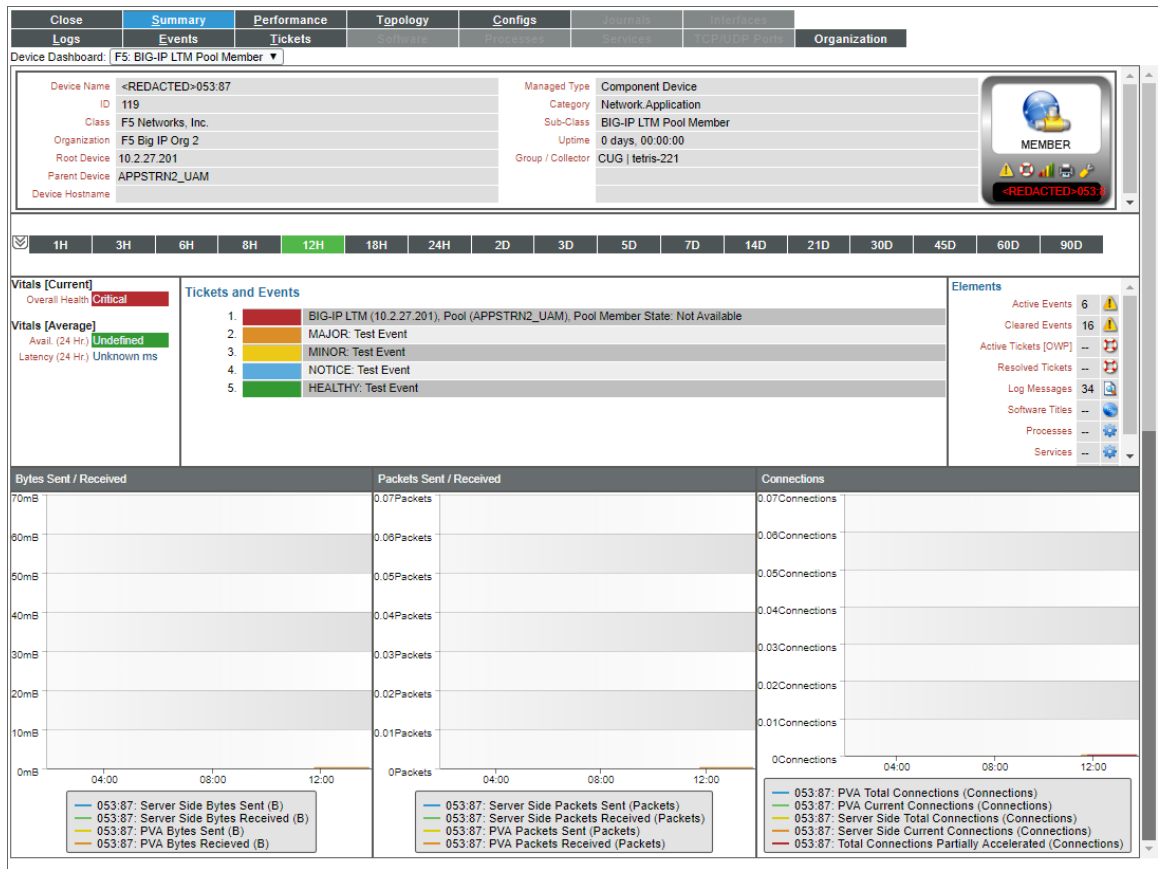
## F5: BIG-IP LTM Pool



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

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

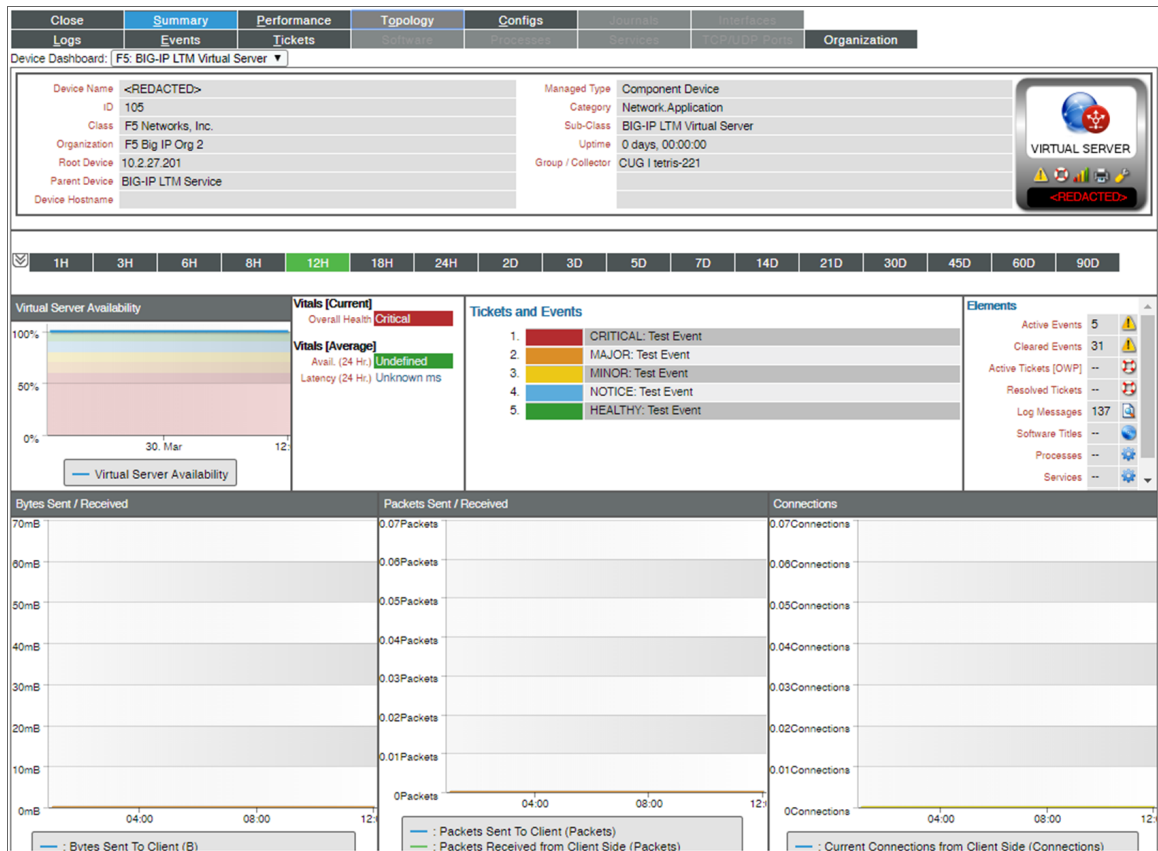
## F5: BIG-IP LTM Pool Member



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

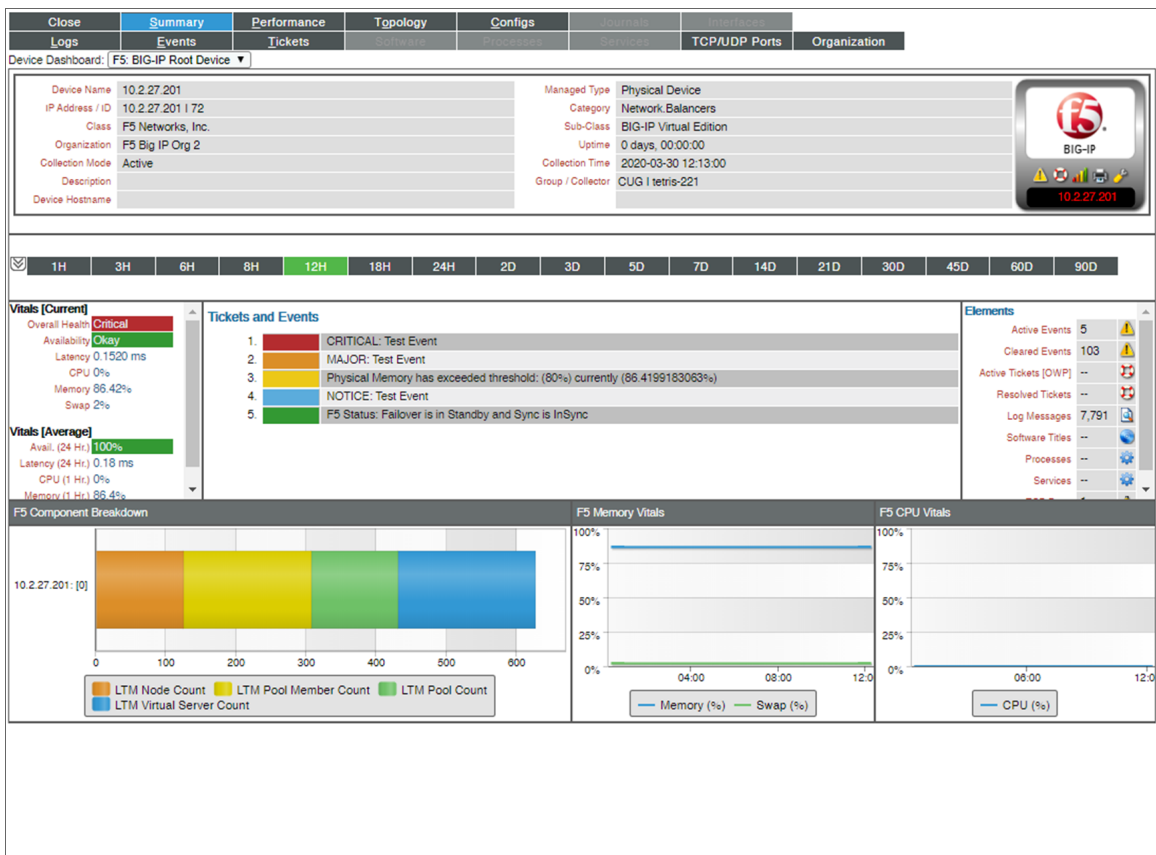
## F5: BIG-IP LTM Virtual Server



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

© 2003 - 2023, 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](mailto: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