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# Monitoring IBM WebSphere Application Servers

*IBM: WebSphere Application Server PowerPack version 100*

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# Chapter

# 1

## Introduction

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### Overview

This manual describes how to monitor IBM WebSphere Application Servers with performance monitoring infrastructure (PMI) in SL1 using the *IBM: WebSphere Application Server PowerPack*.

The following sections provide an overview of IBM WebSphere Application Servers and the *IBM: WebSphere Application Server PowerPack*:

<a href="#">What is IBM WebSphere Application Server?</a> .....	3
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### What is IBM WebSphere Application Server?

The IBM WebSphere Application Server is a Java server runtime environment for enterprise applications. WebSphere supports microservices and standards-based programming models.

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## What Does the IBM: WebSphere Application Server PowerPack Monitor?

To monitor IBM WebSphere Application Servers using SL1, you must install the *IBM: WebSphere Application Server PowerPack*. This PowerPack enables you to discover, model, and collect data about IBM WebSphere application servers.

The *IBM: WebSphere Application Server PowerPack* includes:

- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for IBM WebSphere Application Servers
- Event Policies that are triggered when IBM WebSphere Application Servers meet certain status criteria
- An Example Credential that you can use to connect to IBM WebSphere Application Servers
- Run Book Actions and Run Book Automation policies for classifying the root device and aligning the "IBM: WebSphere System Stats" Dynamic Application to the WebSphere node agent
- Device Classes for each of the IBM WebSphere components that the *IBM: WebSphere Application Server PowerPack* can monitor
- A Device Dashboard that you can use to view information about IBM WebSphere Application Server components

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## Installing the IBM: WebSphere Application Server PowerPack

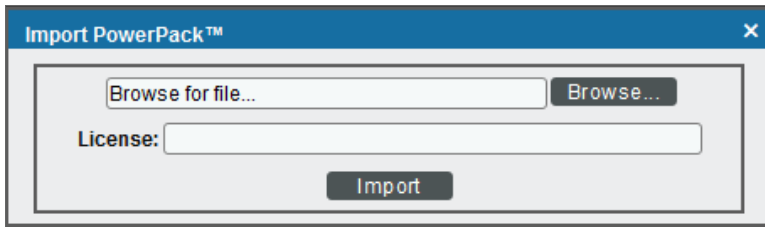
Before completing the steps in this manual, you must import and install the latest version of the *IBM: WebSphere Application Server PowerPack*.

**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*.

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# Chapter

# 2

## Configuration and Discovery

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### Overview

The following sections describe how to configure and discover IBM WebSphere Application Servers for monitoring by SL1 using the *IBM: WebSphere Application Server PowerPack*:

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### Prerequisites for Monitoring IBM WebSphere Application Servers

To configure the SL1 system to monitor IBM WebSphere Application Servers using the *IBM: WebSphere Application Server PowerPack*, you must first set up the following:

- **Performance Monitoring Architecture (PMI)**. PMI is the monitoring structure for the WebSphere Application Server. The performance data provided by the WebSphere PMI helps to monitor and tune the application server performance. To set up PMI, follow the steps here: [https://www.ibm.com/support/knowledgecenter/en/SSEQTP8.5.5/com.ibm.websphere.base.doc/ae/tprf\\_pmi\\_encoll.html](https://www.ibm.com/support/knowledgecenter/en/SSEQTP8.5.5/com.ibm.websphere.base.doc/ae/tprf_pmi_encoll.html)

**NOTE:** When configuring PMI, it is recommended that you set the status to "All" for each of the application servers you want to monitor.

**NOTE:** If PMI is disabled on any server, SL1 will continue to show statistics on that server. If the user does not want to see the statistics on the server on which PMI was disabled, they can recursively disable them. SL1 will eventually move that server to **Vanished Devices** and purge it based on the settings that the user has chosen.

- **PerfServlet.** ScienceLogic will use the WebSphere credential that you create to access PMI output through the PerfServlet application. To install PerfServlet, follow the steps here: [https://www.ibm.com/support/knowledgecenter/en/SSEQTP8.5.5/com.ibm.websphere.base.doc/ae/tprf\\_devprfservlet.html](https://www.ibm.com/support/knowledgecenter/en/SSEQTP8.5.5/com.ibm.websphere.base.doc/ae/tprf_devprfservlet.html)
  - After installing, ensure that PerfServlet is mapped to all the WebSphere application servers that you want to monitor
  - To configure the WebSphere credential and access the PerfServlet application, you will need the hostname, default http(s) transport port, and credentials.

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## Creating a SOAP/XML Credential for IBM WebSphere Application Servers

To configure SL1 to monitor IBM WebSphere Application Servers, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *IBM: WebSphere Application Server PowerPack* to connect with an IBM WebSphere Application Server.

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

To configure a SOAP/XML credential to access an IBM WebSphere Application Server:

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

The screenshot shows the 'Edit SOAP/XML Credential #119' modal page. The window title is 'Credential Editor [119]'. The page is divided into several sections: 'Basic Settings' with fields for Profile Name (IBM: Websphere Example), Content Encoding (application/soap+xml), Method (GET), HTTP Version (HTTP/1.1), URL (http://%D:9080/wasPerfTool/servlet/perfservlet?refreshconfig=true), HTTP Auth User (admin), HTTP Auth Password (masked), and Timeout (2); 'Proxy Settings' with fields for Hostname/IP, Port (0), and User; 'CURL Options' with a list of options like CAINFO, CAPATH, etc., and arrows to move them; 'Soap Options' with an Embedded Password field and four Embed Value fields; and 'HTTP Headers' with a '+ Add a header' button. 'New' and 'Reset' buttons are at the top right, and 'Save' and 'Save As' buttons are at the bottom center.

3. Complete the following fields:
  - **Profile Name.** Type a name for the IBM WebSphere credential.
  - **URL.** The default value in this field is "http(s)://%D:<port>/wasPerfTool/servlet/perfservlet?refreshconfig=true" where %D is the hostname. The port number is determined from the information provided when setting up the PerfServlet.
  - **HTTP Auth User.** Type the username for a user with access to the PerfServlet application.
  - **HTTP Auth Password.** Type the password for the PerfServlet account username.
4. Click the **[Save As]** button.

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## Discovering IBM WebSphere Component Devices



To discover an IBM WebSphere Application Server:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
2. In the **Discovery Control Panel**, click the **[Create]** button. The **Discovery Session Editor** page appears.



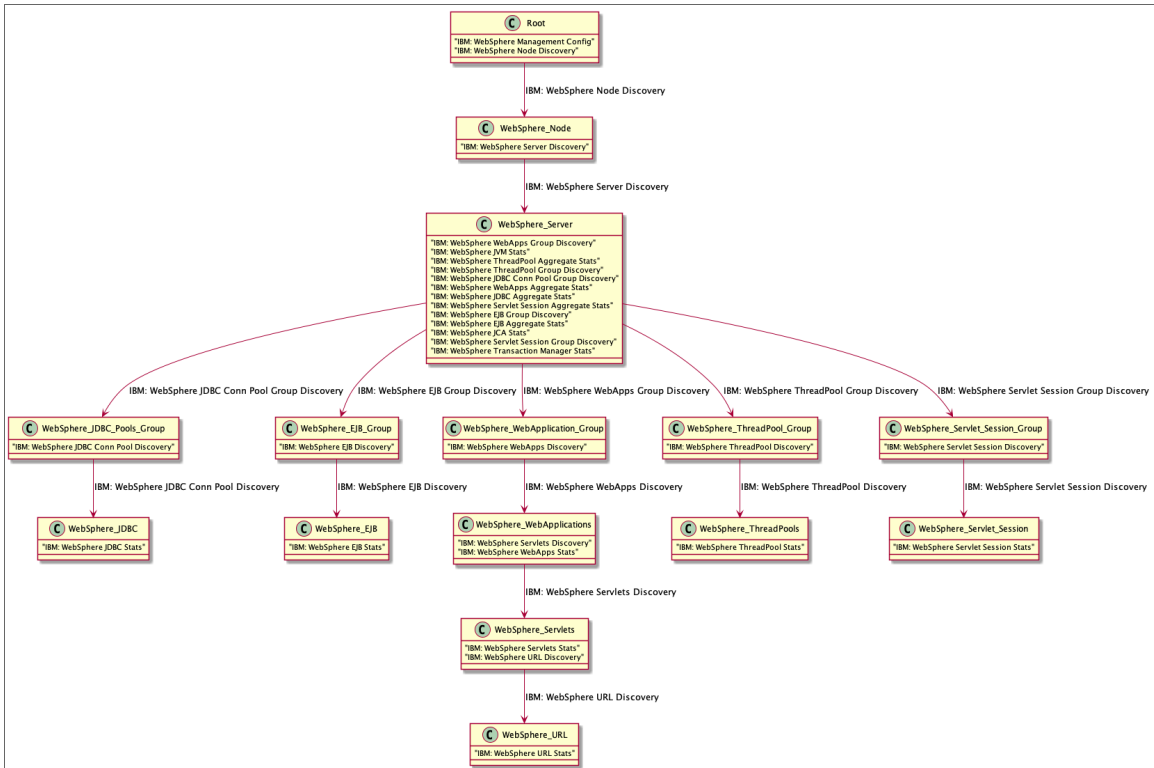
The screenshot shows the 'Discovery Session Editor' window with the following sections:

- Identification Information:** Name (Websphere), Description.
- IP and Credentials:** IP Address/Hostname Discovery List (10.2.5.113), Upload File (Browse for file...), SNMP Credentials (list including Cisco, Dell, IBM, etc.), Other Credentials (list including Cisco, Dell, IBM, etc.).
- Detection and Scanning:** Initial Scan Level, Scan Throttle, Port Scan All IPs, Port Scan Timeout, Detection Method & Port (list including UDP, TCP, etc.), Interface Inventory Timeout (ms) (600000), Maximum Allowed Interfaces (10000), Bypass Interface Inventory (checkbox).
- Basic Settings:** Discover Non-SNMP (checkbox), Model Devices (checkbox), DHCP (checkbox), Device Model Cache TTL (h) (2), Collection Server PID (5), Organization (Websphere), Add Devices to Device Group(s) (list including None, LayerX Appliances, Servers), Apply Device Template (Choose a Template), Log All (checkbox).

3. In the **Discovery Session Editor** page, complete the following fields:
  - **Name.** Type a name for the discovery session.
  - **IP Address/Hostname Discovery List.** Type the IP address for the WebSphere Application Server.
  - **Other Credentials.** Select the SOAP/XML credential you created for the WebSphere Application Server.
  - **Discover Non-SNMP.** Select this checkbox.
  - **Model Devices.** Select this checkbox.
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.
6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (  ) to run the discovery session.
7. The **Discovery Session** window appears. When the cluster root device(s) are discovered, click the device icon (  ) to view the **Device Properties** page for each device.

# Verifying Discovery and Dynamic Application Alignment

During discovery, SL1 will discover the root device, then the WebSphere Node which will in turn discover the server. All applicable Dynamic Applications will be aligned to each component:



To verify that SL1 has automatically aligned the correct Dynamic Applications during discovery:


1. After the discovery session has completed, go to the **Device Manager** (Registry > Devices > Device Manager) page and find the device(s) you discovered. When you have located the device in the **Device Manager**, click on its edit icon (🔧).
2. In the **Device Properties** page, click the **[Collections]** tab.
3. All applicable Dynamic Applications for the WebSphere devices are automatically aligned during discovery.

**NOTE:** It can take several minutes after the discovery session has completed for Dynamic Applications to appear in the **Dynamic Application Collections** page.

You should see the following Dynamic Applications aligned to the WebSphere Management Device:

- IBM: WebSphere Management Config
- IBM: WebSphere Node Discovery

Close	Properties	Thresholds	Collections	Monitors	Schedule		
Logs	Toolbox	Interfaces	Relationships	Tickets	Redirects	Notes	Attributes
Device Name	10.2.5.113			Managed Type	Physical Device		
IP Address / ID	10.2.5.113   1747			Category	Servers Software		
Class	IBM			Sub-Class	WebSphere Management Device		
Organization	WebSphere			Uptime	0 days, 00:00:00		
Collection Mode	Active			Collection Time	2020-07-09 11:40:00		
Description				Group / Collector	CUG_Automation1   KNT-ISO1-CU2-55		
Device Hostname							



Dynamic Application™ Collections							Expand	Actions	Reset	Guide
	Dynamic Application	ID	Poll Frequency	Type	Credential	Collector				
+ IBM: WebSphere Management Config		2292	3 mins	Snippet Configuration	IBM: Websphere Test	KNT-ISO1-CU2-55				<input checked="" type="checkbox"/>
+ IBM: WebSphere Node Discovery		2293	3 mins	Snippet Configuration	IBM: Websphere Test	KNT-ISO1-CU2-55				<input type="checkbox"/>


[Select Action] ▼ Go

Save

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You should see the following Dynamic Application aligned to the WebSphere node:

- IBM: WebSphere Server Discovery

Close	Properties	Thresholds	Collections	Monitors	Schedule			
Logs	Toolbox	Interfaces	Relationships	Tickets	Redirects	Notes	Attributes	
Device Name	WIN-BOT5UT33HBKNode01	Managed Type	Component Device					
ID	1748	Category	Servers Software					
Class	IBM	Sub-Class	WebSphere Node					
Organization	WebSphere	Uptime	0 days, 00:00:00					
Root Device	10.2.5.113	Group / Collector	CUG_Automation1   KNT-ISO1-CU2-55					
Parent Device	10.2.5.113							
Device Hostname								
Dynamic Application™ Collections								
				Expand	Actions	Reset	Guide	
Dynamic Application	ID	Poll Frequency	Type	Credential	Collector			
+ IBM: WebSphere Server Discovery	2294	3 mins	Snippet Configuration	IBM: Websphere Test	KNT-ISO1-CU2-55	<input type="checkbox"/>	<input type="checkbox"/>	
							[Select Action]	Go
Save								

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For all other server types, you should see the following Dynamic Application aligned to the WebSphere server:


- IBM: WebSphere EJB Aggregate Stats
- IBM: WebSphere EJB Group Discovery
- IBM: WebSphere JCA Stats
- IBM: WebSphere JDBC Aggregate Stats
- IBM: WebSphere JDBC Conn Pool Group Discovery
- IBM: WebSphere JVM Stats
- IBM: WebSphere Servlet Session Aggregate Stats
- IBM: WebSphere Servlet Session Group Discovery
- IBM: WebSphere System Stats
- IBM: WebSphere ThreadPool Aggregate Stats
- IBM: WebSphere ThreadPool Group Discovery
- IBM: WebSphere Transaction Manager Stats
- IBM: WebSphere WebApps Aggregate Stats
- IBM: WebSphere WebApps Group Discovery

**NOTE:** The "IBM: WebSphere System Stats" Dynamic Application will only align to servers of type "nodeagent" on managed nodes to collect data. If you have a system that does not have a "nodeagent" server, you will have to manually align the "IBM: WebSphere System Stats" Dynamic Application.

Close	Properties	Thresholds	Collections	Monitors	Schedule		
Logs	Toolbox	Interfaces	Relationships	Tickets	Redirects	Notes	Attributes

Device Name	nodeagent	Managed Type	Component Device
ID	3489	Category	Servers, Software
Class	IBM	Sub-Class	WebSphere Server
Organization	System	Uptime	0 days, 00:00:00
Root Device	10.2.5.113	Group / Collector	CUG / tgarciaAIO102592
Parent Device	WIN-BOT5UT33HBKNode01		
Device Hostname			



nodeagent

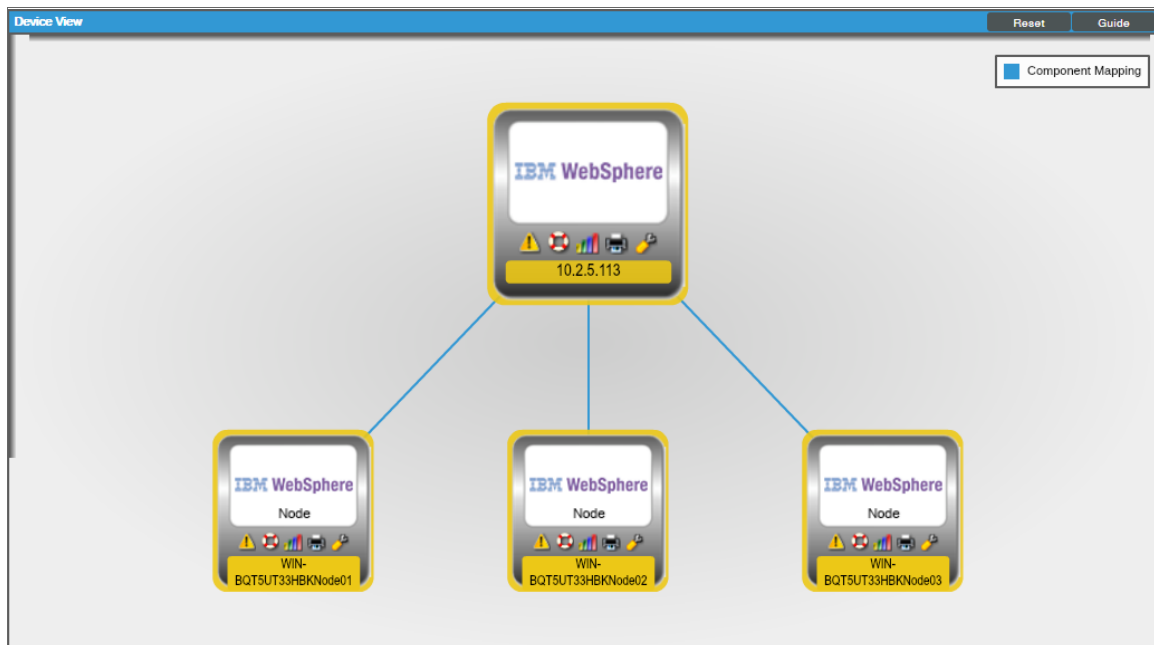
  

Dynamic Application™ Collections							Expand	Actions	Reset	Guide
Dynamic Application	ID	Poll Frequency	Type	Credential	Collector					
+ IBM: WebSphere EJB Aggregate Stats	2052	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input checked="" type="checkbox"/>	
+ IBM: WebSphere JCA Stats	2040	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere JDBC Aggregate Stats	2029	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere JVM Stats	2027	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere Servlet Session Aggregate Stats	2051	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere System Stats	2054	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere ThreadPool Aggregate Stats	2053	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere Transaction Manager Stats	2036	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere WebApps Aggregate Stats	2028	10 mins	Snippet Performance	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere EJB Group Discovery	2033	10 mins	Snippet Configuration	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere JDBC Conn Pool Group Discovery	2037	10 mins	Snippet Configuration	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere Servlet Session Group Discovery	2041	10 mins	Snippet Configuration	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere ThreadPool Group Discovery	2030	10 mins	Snippet Configuration	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	
+ IBM: WebSphere WebApps Group Discovery	2044	10 mins	Snippet Configuration	IBM Websphere 113	tgarciaAIO102592				<input type="checkbox"/>	

## Viewing IBM WebSphere Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view the IBM WebSphere Application Server and all associated component devices in the following places in the user interface:

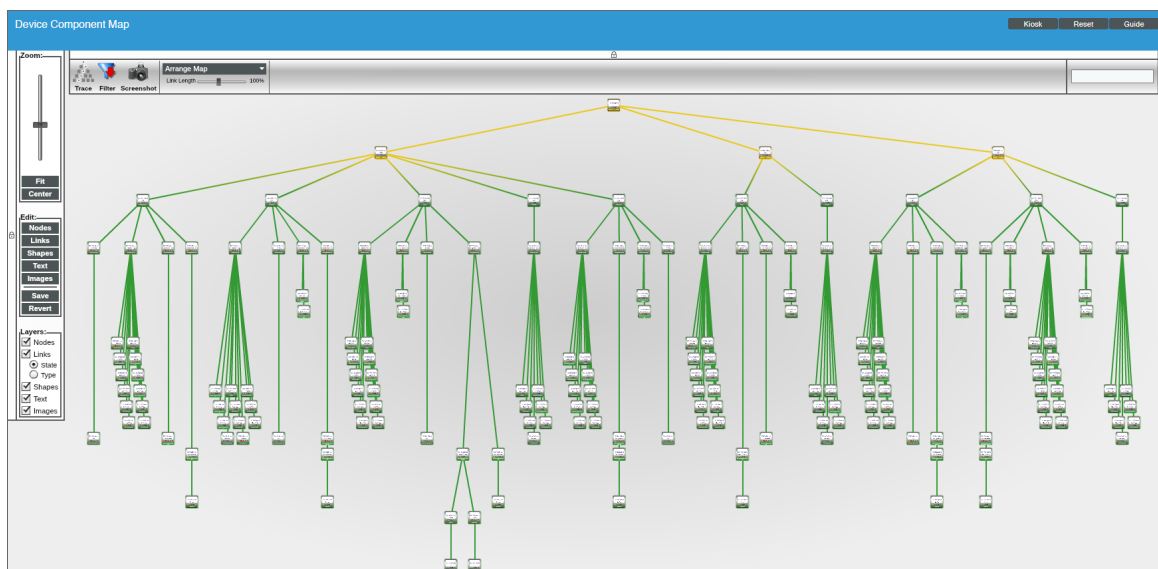
- The **Device View** modal page (click the bar-graph icon [img alt="bar-graph icon" data-bbox="535 225 565 245"] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices 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 IBM WebSphere Application Server, find the IBM WebSphere device and click its plus icon (+):

Device Name	IP Address	Device Category	Device Class / Sub-class	DID	Organization	Current State	Collection Group	Collection State
10.2.5.113	10.2.5.113	Software	IBM   WebSphere Management Device	1747	WebSphere	Minor	CUQ_Automation1	Active
WIN-BOTSUT33HBKNode01	--	Software	IBM   WebSphere Node	1748	WebSphere	Minor	CUQ_Automation1	Active
Cluster_Member_1	--	Software	IBM   WebSphere Server	1751	WebSphere	Healthy	CUQ_Automation1	Unavailable
nodeagent	--	Software	IBM   WebSphere Server	1756	WebSphere	Healthy	CUQ_Automation1	Unavailable
sciencetopic	--	Software	IBM   WebSphere Server	1752	WebSphere	Healthy	CUQ_Automation1	Unavailable
server1	--	Software	IBM   WebSphere Server	1754	WebSphere	Healthy	CUQ_Automation1	Unavailable
test_server01	--	Software	IBM   WebSphere Server	1758	WebSphere	Healthy	CUQ_Automation1	Unavailable
WIN-BOTSUT33HBKNode02	--	Software	IBM   WebSphere Node	1749	WebSphere	Minor	CUQ_Automation1	Active
WIN-BOTSUT33HBKNode03	--	Software	IBM   WebSphere Node	1750	WebSphere	Minor	CUQ_Automation1	Active
10.2.5.115	10.2.5.115	Software	IBM   WebSphere Management Device	2038	docserv	Minor	CUQ_Automation1	Active
10.2.5.96	10.2.5.96	Servers	Linux   Red Hat Enterprise Linux	1660	System	Minor	CUQ_Automation1	Active
elo-knights-doc-server	10.2.5.80	Software	IBM   WebSphere Management Device	1746	Wiremock	Minor	CUQ_Automation1	Active

- The **Component Map** page (Classic Maps > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. SL1 automatically updates the **Component Map** as new component devices are discovered. The platform also updates each map with the latest status and event information. To view the map for an IBM WebSphere Application Server, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the **Views** manual.



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# Chapter

# 3

## IBM WebSphere Application Server Dashboards

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### Overview

The following section describes the device dashboard that is included in the *IBM: WebSphere Application Server PowerPack*:

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<i>IBM: WebSphere Server Performance</i> .....	17

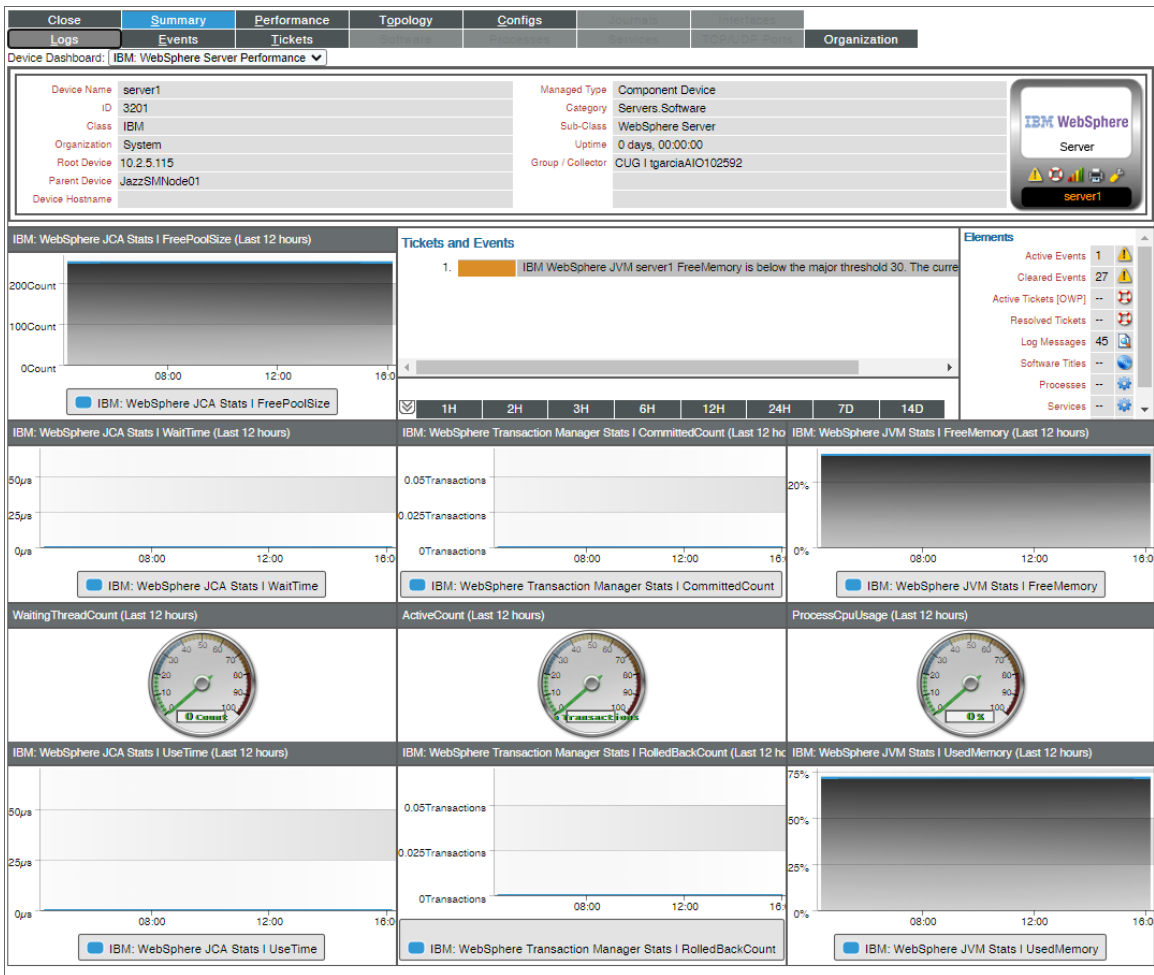
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### Device Dashboard

The *IBM: WebSphere Application Server PowerPack* includes a device dashboard that provides summary information for WebSphere application servers.



# IBM: WebSphere Server Performance



The IBM: WebSphere Server Performance device dashboard displays the following information:

- Tickets and Events
- IBM: WebSphere JCA Stats Free Pool Size
- IBM: WebSphere ICA Stats Wait Time
- IBM: WebSphere Transaction Manager Stats Committed Count
- IBM: WebSphere JVM Stats Free Memory
- Waiting Thread Count
- Active Count
- Process CPU Usage
- IBM: WebSphere JCA Stats Use Time

- IBM: WebSphere Transaction Manager Stats Rolled Back Count
- IBM: WebSphere JVM Stats Used Memory

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