Monitoring IBM DataPower Gateway

IBM: DataPower PowerPack version 100

Table of Contents

Chapter

1

Introduction

Overview

This manual describes how to monitor IBM DataPower Gateway devices in SL1 using the *IBM: DataPower* PowerPack.

The following sections provide an overview of IBM DataPower Gateway and the *IBM: DataPower* PowerPack:

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What is IBM DataPower Gateway?

IBM DataPower Gateway is IBM's platform for delivering integration and security capabilities to web, mobile, cloud, API, service-oriented architecture, and business-to-business solutions in a single, multichannel gateway. It can be delivered as physical, virtual, cloud, Linux, and Docker deployments.

What Does the IBM: DataPower PowerPack Monitor?

To monitor IBM DataPower Gateways using SL1, you must install the *IBM: DataPower* PowerPack. This PowerPack enables you to discover, model, and collect data about DataPower Gateways.

The *IBM: DataPower* PowerPack includes:

- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for IBM DataPower devices

- Device Classes for the IBM DataPower devices that SL1 monitors

- Event Policies and corresponding alerts that are triggered when IBM DataPower devices meet certain status criteria

- An "IBM: DataPower" device dashboard that is assigned as the default dashboard for IBM DataPower devices
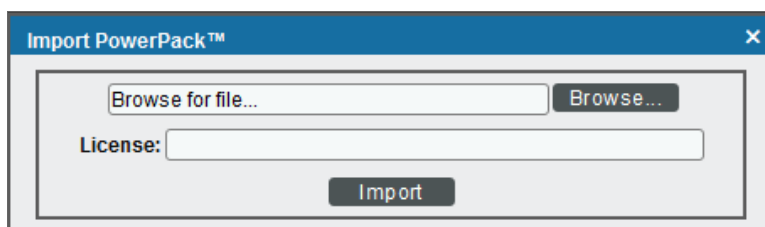
Installing the IBM: DataPower PowerPack

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

> **TIP:** By default, installing a new version of a PowerPack overwrites all content in 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 page appears, click the **[Install]** button to install the PowerPack.

Introduction

NOTE: If you exit the **PowerPack Installer** modal page 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 page. 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 IBM DataPower gateways for monitoring by SL1 using the *IBM: DataPower* PowerPack:

Prerequisites for Monitoring IBM DataPower

Before you can monitor IBM DataPower gateways in SL1 using the *IBM: DataPower* PowerPack, you must first enable SNMP and configure SNMP community strings in each of the DataPower gateways that you will monitor with SL1.

Creating an SNMP Credential for IBM DataPower

To configure SL1 to monitor IBM DataPower gateways, you must first create an SNMP credential. This credential allows the Dynamic Applications in the *IBM: DataPower* PowerPack to connect with a DataPower gateway.

To configure an SNMP credential to connect with a DataPower gateway:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Click the **[Create]** button.

3. In the drop-down list that appears, select *SNMP Credential*. The **Credential Editor** page appears:

4. In the **Profile Name** field, enter a name for the credential.

5. In the **SNMP Version** field, select *SNMP V2*.

6. In the **SNMP Community (Read Only)** field, enter the community string for the DataPower gateway.

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 IBM DataPower Gateways

To discover an IBM DataPower gateway:

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.

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 DataPower gateway.

   - *SNMP Credentials*. Select the SNMP credential that you created for the DataPower gateway.

- *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 gateway device is discovered, click the device icon ( ) to view the **Device Properties** page for the gateway device.

Chapter

3

IBM DataPower Dashboards

Overview

The following sections describe the device dashboards that are included in the *IBM: DataPower* PowerPack:

Device Dashboards

The *IBM: DataPower* PowerPack includes a device dashboard that provides summary information for DataPower devices. This dashboard is set as the default device dashboard for all DataPower device class.

IBM DataPower Gateway
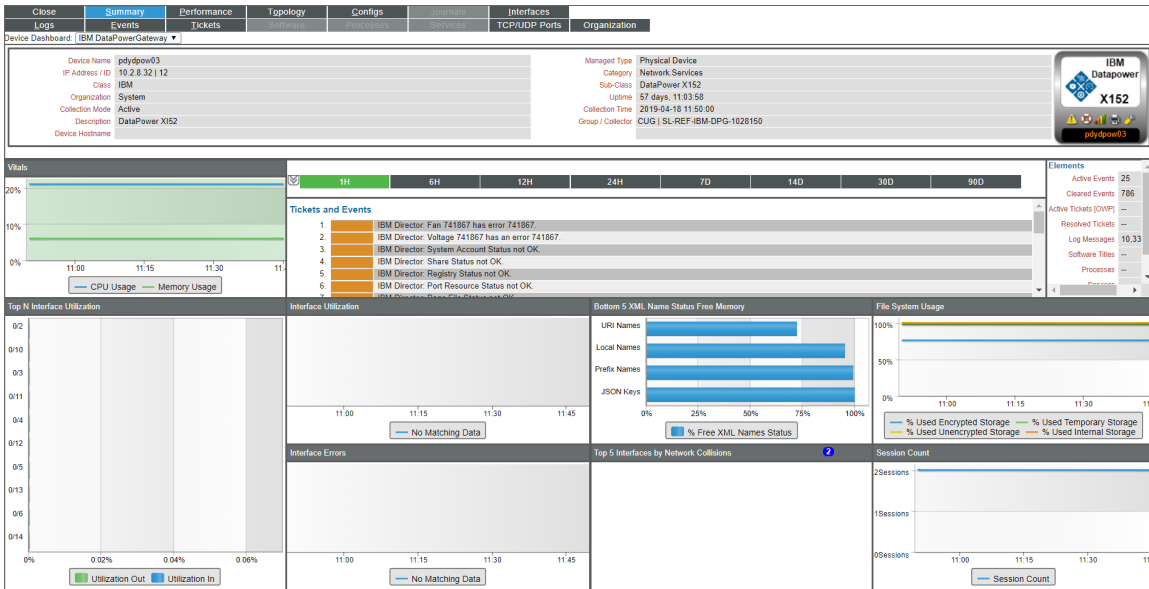
The **IBM DataPower Gateway** dashboard displays the following information:

- The basic information about the device

- A list of active events and open tickets associated with the device

- A count of, and links to, the elements associated with the device

- Eight instances of the Multi-series Performance Widget that display the following metrics trended over the specified period of time:

  - CPU and memory utilization

  - Top interfaces by utilization in and out

  - Interface utilization

  - Interface errors

  - Bottom 5 XML Name Status free memory

  - File system usage

  - Top 5 interfaces by network collisions

  - Session count

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