

Page Title: overview

On this page

Log Parser Plugin

Overview

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Log Parser Plugins in Motadata AIOps are essential tools designed to parse and process logs ingested into the system. While there are numerous built-in log parser plugins available, there may be instances where you need a customized approach to log parsing. In such cases, you can create your own custom log parser plugin to meet specific requirements.

Navigation

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Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Log Parser Plugin

. The Log Parser Plugin screen is displayed.

Creating a Log Parser Plugin

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Overview

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Creating a log parser plugin allows you to define how logs should be parsed and processed. This is particularly useful when dealing with unique log formats or specific parsing requirements not

covered by the built-in plugins.

Navigation

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To create a log parser plugin, click the

Create Log Parser Plugin

button. This will take you to the log parser plugin creation screen, where you need to provide the necessary details and scripting for your custom log parser.

Log Parser Plugin Creation Screen

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Field

Description

Name

Enter a unique and descriptive name for your log parser plugin. This will help you identify and manage the plugin within the system.

Parsing Script

Write the script that defines how the logs should be parsed. This script will process the logs according to your custom requirements, extract, transform, and load the log data as per your requirements.

Usage

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Once you have created the log parser plugin, you can use it within a custom plugin parser

to ensure that logs are parsed according to your specifications.

To apply the custom parser, create an entry in the

Log Inventory

for the log source you wish to parse. Assign the custom log parser plugin to the log source in the Log Inventory Screen.

By following these steps, you can ensure that logs are parsed accurately and effectively, providing you with the necessary insights and data for your monitoring and analysis needs.

Page Title: create-custom-metric-plugin

On this page

Create Custom Metric Plugin

Overview

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Creating a Custom Metric Plugin in Motadata AIOps allows you to define custom metrics for monitoring purposes using your own scripts and protocols. This enables you to monitor specific parameters or devices not covered by the standard plugins provided by Motadata.

Navigation

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Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric

. The Metric Plugin screen is displayed.

Select

to create a metric plugin. The screen to create

HTTP/HTTPS

is selected by default. Select

Custom

to create a Custom Metric Plugin.

Custom Metric Plugin Fields

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When creating a Custom Metric Plugin, you'll need to complete the following fields:

Field

Description

Metric Name

Name of the metric you're defining.

Type

Type of monitor for which you're creating the plugin.

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors. The Plugin will be tested against the monitors selected here when you click on the

Test

button.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

Credential Profile

Select the credential profile to access the selected monitors.

Port

Specify the Port to which you are trying to connect.

Timeout

Specify the timeout to establish the connection with the port.

Script Language

Choose the language for writing the parsing script (GO or Python).

Script

Write the script in this window.

Add Variable

Add any variables needed in the script.

Once you've filled in these fields and written the necessary script, you'll be able to define custom metrics and retrieve data using your Custom Metric Plugin.

Select

Create Metric

to create the metric plugin based on the configurations specified.

Select

Test

to test the script against the monitors selected.

Select

Reset

to erase all the current field values, if required.

Page Title: create-database-metric-plugin

On this page

Create Database Metric Plugin

Overview

â€‹

Creating a Database Metric Plugin in Motadata AIOps allows you to define custom metrics for monitoring purposes using data retrieved from databases. This enables you to monitor specific parameters within your databases and incorporate them into your overall monitoring strategy.

Navigation

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Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric

. The Metric Plugin screen is displayed.

Select

to create a metric plugin. The screen to create

HTTP/HTTPS

is selected by default. Select

Database

to create a Database Metric Plugin.

Database Metric Plugin Fields

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When creating a Database Metric Plugin, you'll need to complete the following fields:

Field

Description

Metric Name

Name of the metric you're defining.

Type

Type of monitor for which you're creating the plugin.

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors. The

Plugin will be tested against the monitors selected here when you click on the

Test

button.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

Credential Profile

Select the credential profile to access the selected monitors.

Port

Specify the Database Port.

Timeout

Specify the timeout to establish the connection with the port.

SQL Script

Write the SQL script in this window.

Script Language

Choose the language for writing the parsing script (GO or Python).

Parsing Script

Write the script here to parse the retrieved data.

Add Variable

Add any variables needed in the parsing script.

Once you've filled in these fields, you'll be able to define custom metrics using the Database Metric Plugin.

Select

Create Metric

to create the metric plugin based on the configurations specified.

Select

Test

to test the script against the monitors selected.

Select

Reset

to erase all the current field values, if required.

Page Title: create-http-metric-plugin

On this page

Create HTTP Metric Plugin

Overview

â€‹

Creating an HTTP/HTTPS Metric Plugin in Motadata AIOps allows you to define custom metrics for monitoring purposes using HTTP or HTTPS communication protocols. This enables you to retrieve data from web-based endpoints and incorporate it into your monitoring strategy.

Navigation

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Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric

. The Metric Plugin screen is displayed.

Select

to create a metric plugin. The screen to create

HTTP/HTTPS

is selected by default.

HTTP Metric Plugin Fields

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When creating an HTTP/HTTPS Metric Plugin, you'll need to fill in the following fields:

Field

Description

Metric Name

Name of the metric you're defining.

Type

Type of monitor for which you're creating the plugin.

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors. The Plugin will be tested against the monitors selected here when you click on the

Test

button.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

URL Endpoint

Specify the URL endpoint from which data will be retrieved.

Credential Profile

Select the credential profile to access the selected monitors.

URL Type

Choose whether the URL is HTTP or HTTPS.

URL Method

Select the HTTP method (GET or POST) for the request.

JSON URL

Indicate whether the URL returns JSON data.

URL Content

Specify if you want to search for specific content within the URL response.

Parameters

Enter any request parameters to be included in the script using key/value pairs.

Headers

Enter any header parameters using key/value pairs.

Script Language

Choose the language for writing the parsing script (GO or Python).

Parsing Script

Write the script here to parse the retrieved data.

Add Variable

Add any variables needed in the parsing script.

Select

Create Metric

to create the metric plugin based on the configurations specified.

Select

Test

to test the script against the monitors selected.

Select

Reset

to erase all the current field values, if required.

Page Title: create-powershell-metric-plugin

On this page

Create Powershell Metric Plugin

Overview

â€‹

Creating a PowerShell Metric Plugin in Motadata AIOps enables you to define custom metrics for monitoring purposes using PowerShell scripts. This allows you to execute scripts on remote systems and retrieve specific data, expanding your monitoring capabilities to include a wider range of metrics and systems.

Navigation

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Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric

. The Metric Plugin screen is displayed.

Select

to create a metric plugin. The screen to create

HTTP/HTTPS

is selected by default. Select

Powershell

to create a SSH Metric Plugin.

PowerShell Metric Plugin Fields

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When creating a PowerShell Metric Plugin, you'll need to complete the following fields:

Field

Description

Metric Name

Name of the metric you're defining.

Type

Type of monitor for which you're creating the plugin.

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors. The Plugin will be tested against the monitors selected here when you click on the

Test

button.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

Credential Profile

Select the credential profile to access the selected monitors.

Powershell Script

Write the Powershell script in this window.

Script Language

Choose the language for writing the parsing script (GO or Python).

Parsing Script

Write the script here to parse the retrieved data.

Add Variable

Add any variables needed in the parsing script.

Once you've filled in these fields, you'll be able to define custom metrics using the PowerShell Metric

Plugin.

Select

Create Metric

to create the metric plugin based on the configurations specified.

Select

Test

to test the script against the monitors selected.

Select

Reset

to erase all the current field values, if required.

Page Title: create-snmp-metric-plugin

On this page

Create SNMP Metric Plugin

Overview

â€‹

Creating a SNMP Metric Plugin in Motadata AIOps allows you to define custom metrics for monitoring purposes using SNMP communication protocols. This enables you to retrieve data from network endpoints and incorporate it into your monitoring strategy.

Navigation

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Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

SNMP

. The Metric Plugin screen is displayed.

Select

to create a metric plugin. The screen to create

HTTP/HTTPS

is selected by default. Select

SNMP

to create a SNMP Metric Plugin.

SNMP Metric Plugin Fields

â€‹

When creating a SNMP Metric Plugin, you'll need to complete the following fields:

Field

Description

Metric Name

Name of the metric you're defining.

Type

Type of monitor for which you're creating the plugin.

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors. The Plugin will be tested against the monitors selected here when you click on the

Test

button.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

Credential Profile

Select the credential profile to access the selected monitors.

Port

Specify the Database Port.

Timeout

Specify the timeout to establish the connection with the port.

Credential Profile

Select the credential profile to access the selected monitors.

OID Group

Select an OID type.

- Scalar OIDs represent single, discrete values. These values may include metrics like CPU utilization or memory usage, represented by specific OIDs.

- Tabular OIDs represent sets of related data, presented in a table format. These tables might include information about interfaces, network routes, etc.

OID Name

Assign a descriptive name to each OID, representing the metric or data you want to monitor. For example, you can use "CPU (%)" for CPU utilization.

OID

Provide the actual OID (Object Identifier) associated with the metric you want to monitor, e.g., 1.3.6.1.4.1.9.2.1.58.0 for CPU utilization.

Add OID Group

Select this button to add another OID group.

Script Language

Choose the language for writing the parsing script (GO or Python).

Parsing Script

Write the script here to parse the retrieved data.

Add Variable

Add any variables needed in the parsing script.

Once you've filled in these fields, you'll be able to define custom metrics using the SNMP Metric Plugin.

Select

Create Metric

to create the metric plugin based on the configurations specified.

Select

Test

to test the script against the monitors selected.

Select

Reset

to erase all the current field values, if required.

Page Title: create-ssh-metric-plugin

On this page

Create SSH Metric Plugin

Overview

â€‹

Creating an SSH Metric Plugin in Motadata AIOps enables you to define custom metrics for monitoring purposes using the SSH protocol. This allows you to retrieve data from remote monitors securely, expanding your monitoring capabilities to include a wider range of systems.

Navigation

â€‹

Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric

. The Metric Plugin screen is displayed.

Select

to create a metric plugin. The screen to create

HTTP/HTTPS

is selected by default. Select

SSH

to create a SSH Metric Plugin.

SSH Metric Plugin Fields

â€‹

When creating an SSH Metric Plugin, you'll need to complete the following fields:

Field

Description

Metric Name

Name of the metric you're defining.

Type

Type of monitor for which you're creating the plugin.

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors. The

Plugin will be tested against the monitors selected here when you click on the

Test

button.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

Credential Profile

Select the credential profile to access the selected monitors.

Port

Specify the SSH Port.

SSH Script

Write the SSH script in this window.

Script Language

Choose the language for writing the parsing script (GO or Python).

Parsing Script

Write the script here to parse the retrieved data.

Add Variable

Add any variables needed in the parsing script.

Once you've filled in these fields, you'll be able to define custom metrics using the SSH Metric Plugin.

Select

Create Metric

to create the metric plugin based on the configurations specified.

Select

Test

to test the script against the monitors selected.

Select

Reset

to erase all the current field values, if required.

Page Title: how-to-create-a-metric-plugin

On this page

How to Create a Metric Plugin?

Overview

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In Motadata AIOps, you have the flexibility to define custom metrics tailored to your specific monitoring needs. This is particularly useful when you need to monitor parameters that are not covered by the standard in-built plugins provided by the system. For example, imagine you have a homegrown application running on a monitor, and you need to retrieve a custom metric, such as the temperature of a motherboard. By creating a metric plugin and scripting using the appropriate protocol, you can establish a connection to the monitor and retrieve the desired metrics, enabling you to monitor them effectively within Motadata AIOps.

Navigation

â€‹

Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric

. The Metric Plugin screen is displayed.

Select

to create a metric plugin.

Types of Metric Plugin

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Motadata AIOps facilitates creating different types of metric plugins based on communication protocol. They can be categorized as follows:

HTTP/HTTPS

SSH

PowerShell

Database

Custom

SNMP

You can choose the appropriate type of plugin based on your monitoring requirements and the communication protocol suitable for your environment.

Page Title: overview

On this page

Metric Plugins

Overview

â€‹

Metric plugins in Motadata AIOps empower users to define custom metrics according to their specific requirements. These plugins allow users to define metrics within Motadata AIOps for monitoring purpose. For instance, users can create a new metric plugin to monitor the temperature of a motherboard or any other custom parameter relevant to their environment.

Creating a new metric plugin includes writing a script using various protocols such as HTTP/HTTPS, SSH, PowerShell, database queries, or custom protocols. This script retrieves the desired data from the monitored devices and presents it as a metric in Motadata.

Motadata also provides multiple in-built metric plugins covering common metrics and parameters. These pre-configured templates can be readily utilized without the need for custom scripting, offering users a convenient solution for standard monitoring needs.

Users can manage both in-built and custom metric plugins through the Metric Plugin screen. Here, users can view, create, edit, and assign plugins to monitors. Users can also clone an inbuilt plugin and further customise it as per their requirement.

Motadata AIOps also allows cross device plugin creation which helps users to add metrics with a different protocol than the one used to discover a device. For instance, a device is discovered using SNMP communication protocol but the VLAN details are not exposed through the same protocol. Thus, users can create a Metric Plugin with the SSH protocol with a custom script to fetch the VLAN details and attach it to the monitor.

Additionally, users will be able to test monitors individually or in bulk after assigning the Metric Plugin. Users will be able to view the test results for the same for each monitor and can also view the execution output individually.

Navigation

⌕

Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Metric Plugin

. The Metric Plugin screen is displayed.

The Metric Plugin Management screen displays the following details for each plugin:

Field

Description

Metric Name

A unique identifier for the metric plugin.

Protocol

The communication protocol used by the plugin (e.g., HTTP/HTTPS, SSH, PowerShell, etc.).

Type

The monitor type on which the plugin can be applied.

Used Count

The number of monitors currently utilizing the plugin.

Actions

Allows users to perform actions such as cloning, assigning to monitors, and removing runbooks for each plugin. You can learn more about the available actions in the section below.

Actions Available For Metric Plugins

⌕

Assign Metric Plugins To Monitor

â€‹

In order to retrieve metrics from a monitor using a specific metric plugin, generally in the case of custom created plugin, the plugin should be assigned to the Monitor. Once assigned, the plugin will retrieve the metrics as per the configuration in the plugin. The metrics will be polled for the monitor according to the assigned plugin on the next poll.

Under the

Actions

Tab, Select

Assign Monitor

to display the list of monitors to which the metric plugin can be assigned. The monitors using the same protocol as the plugin are displayed for assignment.

Select the monitors to which you need to assign the metric plugin using the check-box against it. You can select multiple monitors in case you need to assign the plugin to more than one monitor at once.

Select

Assign Monitor

to assign the plugin to the selected monitor(s).

Select

Cancel

if you do not wish to assign the plugin to the monitor(s).

Clone Metric Plugins

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Suppose you want to create a new Metric Plugin similar to an existing one but with minor changes, you can use the

Clone

option. This will help create a new plugin with similar parameters. You can then change the

parameters as per your requirement and create a new Plugin.

Under the

Actions

Tab, Select

Clone

to start creating a duplicate of the metric plugin.

The screen to create a metric plugin appears with the same script and parameters as the plugin you selected to clone.

Enter all the details as per your requirement. Refer

How to Create a Metric plugin

to find more details about the fields present on the screen.

Page Title: overview

Runbook

Please refer to the

Runbooks

section in the user guide for more information.

Page Title: overview

On this page

Topology Plugin

Overview

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Topology plugins in Motadata AIOps are essential for creating network topology maps by discovering devices using various device discovery protocols such as CDP, LLDP, BGP, and more. Motadata AIOps provides a range of inbuilt topology plugins to support the topology creation of devices from major vendors. However, if a new device enters the market with a different make and model that is not supported by the existing plugins, users can create custom topology plugins to ensure seamless topology creation.

Navigation

â€‹

Go to Menu, Select

Settings

. After that, Go to

Plugin Library

. Select

Topology

. The Topology Plugin screen is displayed.

Topology Plugin Screen

â€‹

The following fields are then displayed on the screen:

Field

Description

Name

The name of the Topology plugin which is used to identify it.

Protocol Type

This indicates the type of the discovery protocol. They are categorized into the following:

-

Custom Protocol

-

SNMP Protocol

Used Count

Indicates the total number of monitors that are using the topology plugin.

Actions

Select

to display permissible actions for each plugin. The following actions are available for each user:

-

Assign Monitor

: This button is used to assign the topology plugin to a monitor.

-

Remove Assigned Monitor

: This button is used to unassign a topology plugin from a monitor.

-

Clone Topology Plugin

: This button is used to duplicate an existing Topology plugin in the system.

-

Edit Topology Plugin

: This button is used to edit the details of a topology plugin.

Create Topology Plugin

â€‹

Network Topology mapping plays a pivotal role in visualizing the interconnections between devices. This mapping is facilitated by routing protocols like CDP and OSPF, ingrained within the Topology plugins of AIOps. Upon execution, AIOps meticulously crafts a Topology map, leveraging these plugins.

However, gaps may arise in the Topology map, particularly in cases where you might encounter new devices in the market that might just be unsupported by our pre-existing plugins. In such instances, you possess the power to bridge these gaps by crafting a topology plugin tailored to recognize these devices.

By orchestrating the creation of a new topology plugin and assigning it to a designated monitor, followed by a Topology scheduler run, the plugin will incorporate these previously overlooked devices into a comprehensive Topology map.

Select

to start creating a topology plugin.

When creating a Topology Plugin, you'll need to fill in the following fields:

Field

Description

Name

Specify a name for the topology plugin.

Vendor

Select the vendor of the device for which you're creating the plugin.

Make & Model

Select the make and model of the device (if applicable).

Monitor/Group

Choose whether you want to assign the plugin to a specific monitor or a group of monitors.

Monitors/Groups

Select the specific monitor(s)/group(s) to which you want to assign the plugin.

Layer Protocol

Select the discovery protocol to use for discovering neighbors and creating the topology.

Protocol Type

Select whether you want to use SNMP protocol or a custom protocol for device discovery.

Credential Profile

Select the credential profile to use for custom protocol (if applicable).

Port

Specify the port for communication protocol (if applicable).

OID Name/OID

Specify the OID name/OID of the device for device discovery.

Script Language

Choose the language for writing the parsing script (GO or Python).

Parsing Script

Write the script here to parse the retrieved data.

Timeout

Specify the timeout for establishing connections.

Add Variable

Add any variables needed in the script.

Once you've filled in these fields and written the necessary script, you'll be able to create custom topology plugins and discover devices efficiently.