



# JVM Data Collector

## Cloud Insights

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# JVM Data Collector

Cloud Insights uses this data collector to gather metrics from JVM.

## Installation

1. From **Admin > Data Collectors**, click **+Data Collector**. Under **Services**, choose JVM.

Select the Operating System or Platform on which the Telegraf agent is installed.

2. If you haven't already installed an Agent for collection, or you wish to install an Agent for a different Operating System or Platform, click *Show Instructions* to expand the [Agent installation](#) instructions.
3. Select the Agent Access Key for use with this data collector. You can add a new Agent Access Key by clicking the **+ Agent Access Key** button. Best practice: Use a different Agent Access Key only when you want to group data collectors, for example, by OS/Platform.
4. Follow the configuration steps to configure the data collector. The instructions vary depending on the type of Operating System or Platform you are using to collect data.




## Java Configuration

Gathers JVM metrics.

### What Operating System or Platform Are You Using?

[Need Help?](#)

 RHEL & CentOS

### Select existing Agent Access Key or create a new one

Default (405fb5ec-d4cb-4404-977b-71fa931e1ad3)

[+ Agent Access Key](#)

\*Please ensure that you have a Telegraf Agent in you environment before configuring [Show Instructions](#)

### Follow Configuration Steps

[Need Help?](#)

- 1 Install Jolokia on your JVMs. For details refer to the following [document](#).
- 2 Copy the contents below into a new .conf file under the /etc/telegraf/telegraf.d/ directory. For example, copy the contents to the /etc/telegraf/telegraf.d/cloudinsights-jvm.conf file.

```
# Read JMX metrics through Jolokia
[[inputs.jolokia2_agent]]
  # USER-ACTION: Provide address(es) of JVM, port for jolokia, add one URL for each JVM in
  # your cluster
  # Please specify actual machine IP address, and refrain from using a loopback address (i.e.
  # 192.168.1.1 or 127.0.0.1)
```

- 3 Replace <INSERT\_JVM\_ADDRESS> with the applicable JVM address. Please specify a real machine address, and refrain from using a loopback address.
- 4 Replace <INSERT\_JOLOKIA\_PORT> with the applicable JVM jolokia port.
- 5 Modify 'Namespace' if needed for server disambiguation (to avoid name clashes).
- 6 Restart the Telegraf service.

```
systemctl restart telegraf
```

## Setup

Information may be found in [JVM documentation](#).

## Objects and Counters

The following objects and their counters are collected:



Object:	Identifiers:	Attributes:	Datapoints:
JVM	Namespace JVM	OS Architecture OS Name OS Version Runtime Specification Runtime Specification Vendor Runtime Specification Version Uptime Runtime VM Name Runtime VM Vendor Runtime VM Version Node Name Node IP	Class Loaded Class Loaded Total Class Unloaded Memory Heap Committed Memory Heap Init Memory Heap Used Max Memory Heap Used Memory Non Heap Committed Memory Non Heap Init Memory Non Heap Max Memory Non Heap Used Memory Objects Pending Finalization OS Processors Available OS Committed Virtual Memory Size OS Free Physical Memory Size OS Free Swap Space Size OS Max File Descriptor Count OS Open File Descriptors Count OS Processor CPU Load OS Processor CPU Time OS System CPU Load OS System Load Average OS Total Physical Memory Size OS Total Swap Space Size Thread Daemon Count Thread Peak Count Thread Count Thread Total Started Count Garbage Collector Copy Collection Count Garbage Collector Copy Collection Time Garbage Collector Mark- sweep Collection Count

# Troubleshooting

Additional information may be found from the [Support](#) page.

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