



# JVM Data Collector

## Cloud Insights

Tony Lavoie  
April 03, 2020

This PDF was generated from [https://docs.netapp.com/us-en/cloudinsights/task\\_config\\_telegraf\\_jvm.html](https://docs.netapp.com/us-en/cloudinsights/task_config_telegraf_jvm.html) on May 12, 2020. Always check docs.netapp.com for the latest.

# Table of Contents

- JVM Data Collector ..... 1
  - Installation..... 1
  - Setup ..... 2
  - Objects and Counters..... 2
  - Troubleshooting ..... 5

# 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.

## Copyright Information

Copyright © 2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.