

HCP Upgrading 1

# Upgrading Metron

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## Upgrade Metron

After you shut down Metron and all of its services, you must uninstall Metron and then reinstall the newest version of Metron.

### Procedure

#### 1. Back up your Metron configuration:

- a) Create an upgrade folder:

```
mkdir HCP191-Upgrade
cd HCP191-Upgrade/
```

- b) Copy your Metron configuration into the upgrade folder:

```
cp -rp /usr/hcp/current/metron/config metron-config
```

- c) Download the ZooKeeper configuration into the upgrade folder:

```
source /etc/default/metron
/usr/hcp/current/metron/bin/zk_load_configs.sh -z $ZOOKEEPER -m PULL -o
zk-config
```

- d) Ensure that the upgrade folder contains your Metron and ZooKeeper configurations:

```
ls -l
```

You should see something similar to the following:

```
metron-config
zk-config
```

- e) If you have created custom components in Metron, copy the contents of `/usr/hcp/current/metron/parser_contrib` to the upgrade folder:

```
cp -rp /usr/hcp/current/metron/parser_contrib/ parser_contrib
```

- f) Confirm that the `parser_contrib` information was copied correctly:

```
ls -l parser_contrib/
```

You should see something similar to the following:

```
first_parser.jar
second_parser.jar
third_parser.jar
fourth_parser.jar
```

#### 2. In Ambari, stop all Metron Services.

The screenshot shows the HDP Metron management console. On the left, there is a sidebar with a list of services: HDFS, YARN, MapReduce2, HBase, ZooKeeper, Storm, Kafka, Elasticsearch, Kibana, and Metron. The Metron service is selected and highlighted. The main content area shows a 'Summary' tab with a list of Metron components and their status. All components are shown as 'Stopped' with 'No alerts'.

Component	Status	Alerts
Metron Alerts UI	Stopped	No alerts
Metron Enrichment	Stopped	No alerts
Metron Indexing	Stopped	No alerts
Metron Management UI	Stopped	No alerts
Metron Parsers	Stopped	No alerts
Metron PCAP	Stopping...	No alerts
Metron Profiler	Stopped	No alerts
Metron REST	Stopped	No alerts

### 3. Stop all Storm Metron topologies and confirm all are stopped.

- List all topologies in Storm.

```
storm list
```

If any topologies are running, your output should look similar to the following:

```
Running: /usr/jdk64/jdk1.8.0_112/bin/java -Ddaemon.name= -
Dstorm.options=
-Dstorm.home=/usr/hdp/2.6.5.1050-37/storm -Dstorm.log.dir=/var/log/
storm
-Djava.library.path=/usr/local/lib:/opt/local/lib:/usr/lib:/usr/hdp/
current/storm-client/lib
-Dstorm.conf.file= -cp /usr/hdp/2.6.5.1050-37/storm/lib/ring-
cors-0.1.5.jar:/usr/hdp/2.6.5.1050-37
/storm/lib/storm-core-1.1.0.2.6.5.1050-37.jar:/usr/hdp/2.6.5.1050-37/
storm/lib/disruptor-3.3.2.jar:
/usr/hdp/2.6.5.1050-37/storm/lib/asm-5.0.3.jar:/usr/hdp/2.6.5.1050-37/
storm/lib/reflectasm-1.10.1.jar:
/usr/hdp/2.6.5.1050-37/storm/lib/slf4j-api-1.7.21.jar:/usr/
hdp/2.6.5.1050-37
/storm/lib/servlet-api-2.5.jar:/usr/hdp/2.6.5.1050-37/storm/lib/log4j-
over-slf4j-1.6.6.jar:
/usr/hdp/2.6.5.1050-37/storm/lib/kryo-3.0.3.jar:/usr/hdp/2.6.5.1050-37/
storm/lib/minlog-1.3.0.jar:
/usr/hdp/2.6.5.1050-37/storm/lib/log4j-core-2.8.2.jar:/usr/
hdp/2.6.5.1050-37/storm
/lib/zookeeper.jar:/usr/hdp/2.6.5.1050-37/storm/lib/log4j-
api-2.8.2.jar:/usr/hdp/2.6.5.1050-37
/storm/lib/storm-rename-hack-1.1.0.2.6.5.1050-37.jar:/usr/
hdp/2.6.5.1050-37/storm/lib
/log4j-slf4j-impl-2.8.2.jar:/usr/hdp/2.6.5.1050-37/storm/lib/
clojure-1.7.0.jar:/usr/hdp
/2.6.5.1050-37/storm/lib/objenesis-2.1.jar:/usr/hdp/2.6.5.1050-37/storm/
extlib-daemon
/ranger-plugin-classloader-0.7.0.2.6.5.1050-37.jar:/usr/
hdp/2.6.5.1050-37/storm/extlib-daemon
/ranger-storm-plugin-shim-0.7.0.2.6.5.1050-37.jar:/usr/
hdp/2.6.5.1050-37/storm/extlib-daemon
/ojdbc6.jar:/usr/hdp/current/storm-supervisor/conf:/usr/
hdp/2.6.5.1050-37/storm/bin org.apache.storm.command.list
2670 [main] INFO o.a.s.u.NimbusClient - Found leader nimbus :
node1:6627
Topology_name          Status      Num_tasks  Num_workers  Uptime_secs
-----
```

```

enrichment          ACTIVE      8          1          49253
bro__snort__yaf     ACTIVE      7          1          48749
batch_indexing      ACTIVE      5          1          48613
pcap                ACTIVE      3          1          49140
profiler            ACTIVE      7          1          49001
random_access_indexing ACTIVE      5          1          48493

```

- b) Stop all of the Metron Storm topologies:

```
storm kill <TOPOLOGY_NAME>
```

- c) Confirm that all of the Metron Storm topologies are stopped:

```
storm list
```

You should see No topologies running.

#### 4. Uninstall Metron.

- In Ambari, select **Metron**, then under the **Service Actions** menu, click **Delete Service**.
- At the bottom of the **Delete Service** window, click **Delete**.
- When prompted, enter "delete" then click the **Delete** button to confirm deleting the service.  
Amari displays a confirmation window stating "Service Metron was successfully deleted."

#### 5. Remove all of the rpms from the old Metron version.

##### CentOS

- a) From the Ambari node, enter the following to list all of the Metron packages:

```
rpm -qa | grep metron
```

You should see input similar to the following:

```

metron-metron-management-0.7.1-201904012257.noarch
metron-enrichment-0.7.1-201904012257.noarch
metron-indexing-0.7.1-201904012257.noarch
metron-rest-0.7.1-201904012257.noarch
metron-alerts-0.7.1-201904012257.noarch
metron-data-management-0.7.1-201904012257.noarch
metron-parsers-common-0.7.1-201904012257.noarch
metron-parsing-storm-0.7.1-201904012257.noarch
metron-profiler-storm-0.7.1-201904012257.noarch
metron-profiler-repl-0.7.1-201904012257.noarch
metron-elasticsearch-0.7.1-201904012257.noarch
metron-pcap-0.7.1-201904012257.noarch
metron-config-0.7.1-201904012257.noarch
metron-maas-service-0.7.1-201904012257.noarch
metron-common-0.7.1-201904012257.noarch
metron-parsers-0.7.1-201904012257.noarch
metron-profiler-spark-0.7.1-201904012257.noarch
metron-solr-0.7.1-201904012257.noarch
metron-performance-0.7.1-201904012257.noarch

```

- b) Using the metron-config information you received from the input in the previous step, enter the following to remove all of the Metron packages:

```
sudo rpm -q --scripts metron-config-0.7.1-201904012257.noarch
```

You should see output similar to the following:

```

chkconfig --add metron-management-ui
chkconfig --add metron-alerts-ui
preuninstall scriptlet (using /bin/sh):

```

```
chkconfig --del metron-management-ui
chkconfig --del metron-alerts-ui
```

### Ubuntu

From the Ambari node, enter the following to delete all of the Metron packages:

```
sudo aptitude purge $PACKAGE_NAME
```

- Remove older Metron rpms on other nodes.

```
rpm -qa | grep metron
```

- In Ambari, update the Repo version.

To navigate to the Repositories page, from the **admin** menu, choose **Manage Ambari**, click **Versions**, then click **+ Register Version**.

#### Repositories

Provide Base URLs for the Operating Systems you are configuring.

OS	Name	Base URL	+ Add ▾
redhat7	ES-Curator-5.x	<input type="text" value="http://shd01-rep01.shd01.ops.omss/repo/Elasticsear"/>	- Remove
	HCP-1.4.2.0	<input type="text" value="shd01.ops.omss/repo/HortonWorks/HCP-1.8.0.0-58/"/>	↻
	HDP-2.6	<input type="text" value="http://shd01-rep01.shd01.ops.omss/repo/HortonWor"/>	
	HDP-UTILS-1.1.0.21	<input type="text" value="http://shd01-rep01.shd01.ops.omss/repo/HortonWor"/>	
	elasticsearch-5.x	<input type="text" value="http://shd01-rep01.shd01.ops.omss/repo/Elasticsear"/>	
	kibana-5.x	<input type="text" value="http://shd01-rep01.shd01.ops.omss/repo/Elasticsear"/>	

Skip Repository Base URL validation (Advanced) [?](#)  
 Use RedHat Satellite/Spacewalk [?](#)

- Uninstall the old HCP mpack version:

```
ambari-server uninstall-mpack --mpack-name=metron-ambari.mpack --verbose
```

- Install the current HCP mpack repo from [Release Notes](#).

```
wget http://public-repo-1.hortonworks.com/HCP/centos7/1.x/updates/1.9.1.0/
tars/metron/hcp-ambari-mpack-1.9.1.0-6.tar.gz
ambari-server install-mpack --force --mpack=/${MPACK_DOWNLOAD_DIRECTORY}/
hcp-ambari-mpack-1.9.1.0-6.tar.gz --verbose
```

10. Restart the Ambari server.

```
ambari-server restart
```

11. Re-open Ambari and add the updated Metron version.

From the **Actions** menu, click **Add Service**, then click Metron from the **Choose Services** page. Ensure Metron is the updated version.

Ambari lists each service on which Metron is dependent.

12. Click yes to add each dependency.

13. In Ambari, add back your Metron configuration information in the **Property** fields.

Do not copy and paste into the Metron property fields. You can inadvertently add a special character.

14. Click **Deploy** to start the Metron set up.

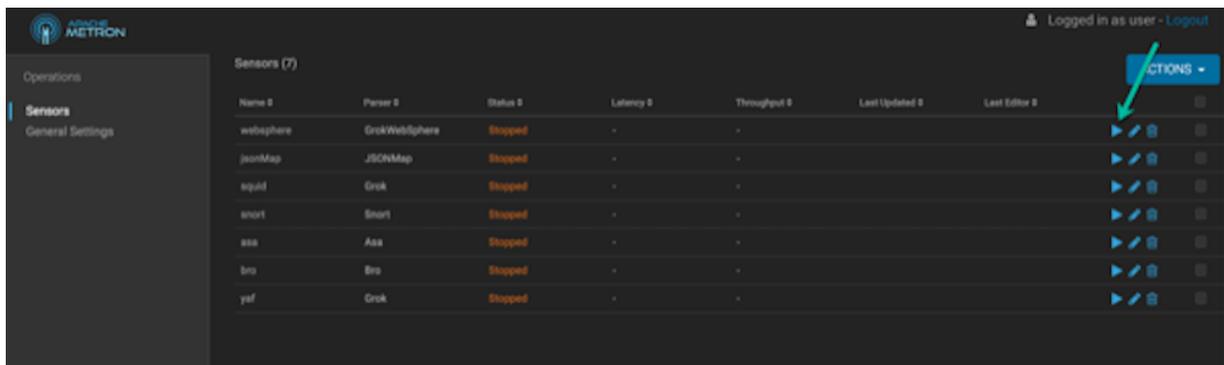
The process to install, start, and test Metron will take a while.

15. Restart the Metron services:

- Metron REST
- Metron Management UI
- Metron Alerts UI
- Indexing

16. In the Management UI, restart the Metron Parsers including Enrichment, Bro, Snort, Yaf, and any other parsers you added previously.

Management UI



Name	Parser	Status	Latency	Throughput	Last Updated	Last Editor	ACTIONS
webSphere	GrokWebSphere	Stopped	-	-	-	-	▶ ✎ ⚙
jsonMap	JSONMap	Stopped	-	-	-	-	▶ ✎ ⚙
input	Grok	Stopped	-	-	-	-	▶ ✎ ⚙
snort	Snort	Stopped	-	-	-	-	▶ ✎ ⚙
isa	Aia	Stopped	-	-	-	-	▶ ✎ ⚙
bro	Bro	Stopped	-	-	-	-	▶ ✎ ⚙
yaf	Grok	Stopped	-	-	-	-	▶ ✎ ⚙



**Note:** Starting the Metron parsers might take a while.

17. Check the status of the parsers in the Storm UI.

Storm UI

### Storm UI

#### Cluster Summary

Version	Supervisors	Used slots	Free slots	Total slots	Executors	Tasks
1.0.1.2.5.3.0-37	1	5	0	5	33	33

#### Nimbus Summary

Host	Port	Status	Version	UpTime
node1	6627	Leader	1.0.1.2.5.3.0-37	1h 19m 7s

Showing 1 to 1 of 1 entries

#### Topology Summary

Name	Owner	Status	Uptime	Num workers	Num executors	Num tasks	Replication count	Assigned Mem (MB)	Scheduler Info
batch_indexing	storm	ACTIVE	1m 3s	0	0	0	1	0	
bro	storm	ACTIVE	12m 27s	1	4	4	1	832	
enrichment	storm	ACTIVE	52m 52s	1	15	15	1	832	
profiler	storm	ACTIVE	50m 50s	1	6	6	1	832	
snort	storm	ACTIVE	4m 35s	1	4	4	1	832	
yaf	storm	ACTIVE	8m 41s	1	4	4	1	832	

Showing 1 to 6 of 6 entries