How to upgrade java 1.7 to java 1.8 using cloudera manager on AWS EC2 (CDH)-:

Step 1: Verify the Java version which you have already installed on AWS EC2 CDH. Open Putty and login to EC2 instance.

i) Insert Command: java -version

```
[root@ip-10-0-0-206 ~]# java -version
java version "1.7.0_67"
Java(TM) SE Runtime Environment (build 1.7.0_67-b01)
Java HotSpot(TM) 64-Bit Server VM (build 24.65-b04, mixed mode)
[root@ip-10-0-0-206 ~]#
```

ii. Is /usr/java/jdk1.7.0_67-cloudera/

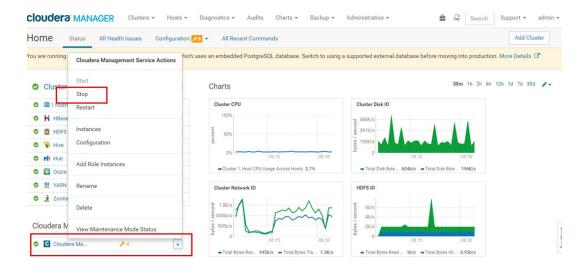
```
[root@ip-10-0-0-206 ~] # ls /usr/java/jdkl.7.0_67-cloudera/
bin COPYRIGHT db include jre lib LICENSE man README.html release src.zip THIRDPARTYLICENSEREADME-JAVAFX.txt THIRDPARTYLICENSEREADME.txt
[root@ip-10-0-0-206 ~] #
```

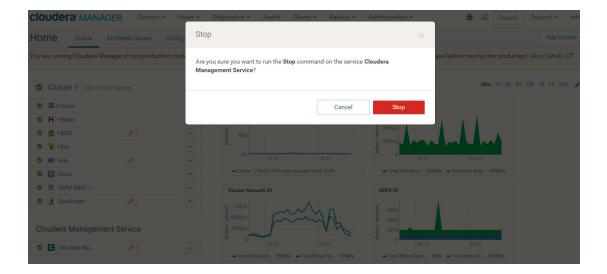
Click here to view image

Step2: Shut down cloudera management service and cluster service, using cloudera manager.

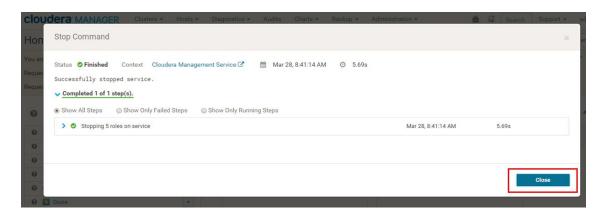
PS: If your cloudera management service and cluster service is already shut, no need to perform the step below.

- i. Enter your Public IP Address in the link given below to access cloudera manager http://Public IP Address:7180
- ii. Click on cloudera management service and **click on Stop**.

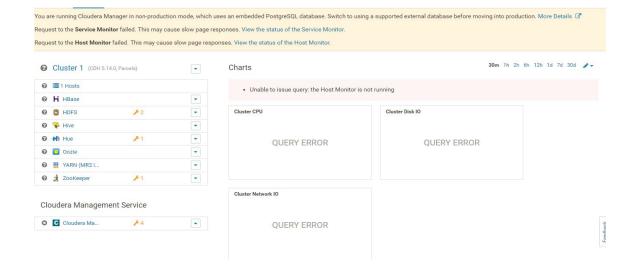




iii. Click on Stop and then Close.



iv. After closing you should get window as shown below.



Step 3: Now Again go to putty and stop <u>cloudera-scm-server</u> and <u>cloudera-scm-agent</u> using the command line.

i. Insert Command: systemctl stop cloudera-scm-server

```
[root@ip-10-0-0-206 ~]# systemctl stop cloudera-scm-server [root@ip-10-0-0-206 ~]#
```

ii. Insert Command: systemctl stop cloudera-scm-agent

```
[root@ip-10-0-0-206 ~]# systemctl stop cloudera-scm-agent [root@ip-10-0-0-206 ~]#
```

Step 4: Now download the JAVA 1.8 using below url.

i. Insert the command lines below together in Putty. Command can also be found here.

```
wget --no-cookies --no-check-certificate --header "Cookie: gpw_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c 45e0808/jdk-8u161-linux-x64.tar.gz"
```

Note - Download might not go through if the Oracle Server is down. So you might have to wait.

```
root@ip-10-0-0-206 ~]‡ wget --no-cookies --no-check-certificate --header "Cookie: gpw e24=http%3A%2F%2Fwww.oracle.com%2F;oraclelicense=accept-securebackup-cookie" "ht
p://download.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.tar.gz"
--2018-03-28 08:47:51-- http://download.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.tar.gz
Resolving download.oracle.com (download.oracle.com)... 23.46.60.117
Connecting to download.oracle.com (download.oracle.com) |23.46.60.117|:80... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://edelivery.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.tar.gz [following]
--2018-03-28 08:47:51-- https://edelivery.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.tar.gz
Resolving edelivery.oracle.com (edelivery.oracle.com)... 23.49.182.138, 2600:1408:2000:197::2d3e, 2600:1408:2000:198::2d3e
Connecting to edelivery.oracle.com (edelivery.oracle.com) 23.49.182.138:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: http://download.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555alfa6e98c45e0808/jdk-8u161-linux-x64.tar.gz?AuthParam=1522226991 8a5785ae4925d306259925b
a39684a22 [following]
 --2018-03-28 08:47:51-- http://download.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.tar.gz?AuthParam=1522226991 8a5785ae
4925d306259925ba39684a22
Connecting to download.oracle.com (download.oracle.com) |23.46.60.117|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 189756259 (181M) [application/x-gzip]
Saving to: 'jdk-8u161-linux-x64.tar.gz'
                                                                                                               2018-03-28 08:47:53 (94.9 MB/s) - 'jdk-8ul6l-linux-x64.tar.gz' saved [189756259/189756259]
 root@ip-10-0-0-206 ~]#
```

Step 5: Verify java 1.8 is downloaded or not. Using Is -Itrh and size is 181 MB.

i. Insert Command: Is -Itrh

```
[root@ip-10-0-0-206 ~] # 1s -ltrh

total 182M
-rw-r--r-- 1 root root 6.0K Nov 12 2015 mysql-community-release-e17-5.noarch.rpm
-rw-r--r-- 1 root root 181M Dec 20 19:10 jdk-8ul61-linux-x64.tar.gz
-rw-----. 1 root root 6.9K Jan 3 18:48 original-ks.cfg
-rw-----. 1 root root 7.6K Jan 3 18:48 anaconda-ks.cfg
-rwxr-xr-x 1 root root 508K Feb 8 14:48 cloudera-manager-installer.bin
[root@ip-10-0-0-206 ~]#
```

Step 6: Extract the tar file using below command and installed into the location /usr/java/

Insert Command: tar zxvf jdk-8u161-linux-x64.tar.gz -C /usr/java/

You will get an output like shown below:

```
[root@ip-10-0-0-206 ~] # tar zxvf jdk-8ul61-linux-x64.tar.gz -C /usr/java/
jdk1.8.0 161/
jdk1.8.0_161/javafx-src.zip
jdk1.8.0_161/bin/
jdkl.8.0 161/bin/jmc
jdkl.8.0 l6l/bin/serialver
jdkl.8.0 161/bin/jmc.ini
jdkl.8.0 161/bin/jstack
jdkl.8.0 161/bin/rmiregistry
jdk1.8.0_161/bin/unpack200
jdk1.8.0 161/bin/jar
jdkl.8.0 161/bin/jps
jdkl.8.0 161/bin/wsimport
jdkl.8.0 161/bin/rmic
jdkl.8.0 161/bin/jdeps
jdk1.8.0_161/bin/jcontrol
jdkl.8.0 161/bin/javafxpackager
jdk1.8.0_161/bin/schemagen
jdkl.8.0 161/bin/jcmd
jdkl.8.0 161/bin/servertool
jdk1.8.0 161/bin/xjc
jdk1.8.0_161/bin/jmap
jdkl.8.0_161/bin/jvisualvm
jdkl.8.0 161/bin/policytool
jdkl.8.0 161/bin/jstat
jdk1.8.0 161/bin/jconsole
jdkl.8.0 161/bin/jdb
jdkl.8.0 161/bin/jstatd
jdkl.8.0_161/bin/appletviewer
```

Step 7: Verify java 1.8 is installed or not under the location: /usr/java/

- i. Insert Command: cd /usr/java
- ii. Insert Command: Is

```
[root@ip-10-0-0-206 ~] # cd /usr/java
[root@ip-10-0-0-206 java] # 1s
jdkl.6.0_31 jdkl.7.0_67-cloudera jdkl.8.0_161
[root@ip-10-0-0-206 java] #
```

Step 8: Check the java and jre location using

i. Insert Command: Is /usr/java/jdk1.8.0 161/

```
[root@ip-10-0-0-206 ~]# ls /usr/java/jdkl.8.0_161/
bin COPYRIGHT db include javafx-src.zip jre lib LICENSE man README.html release src.zip
[root@ip-10-0-0-206 ~]#
```

Step 9: Edit the JAVA HOME path for cloudera-scm-server and other users.

i. Insert Command: vi /etc/default/cloudera-scm-server to edit your Java path.

```
[root@ip-10-0-0-206 ~]# vi /etc/default/cloudera-scm-server
```

After Inserting the above command. Click 'i' to change your Java home path as shown below.

Earlier our path for Java: export JAVA_HOME=/usr/java/jdk1.7.0_67-cloudera/

After inserting the above command you need to click 'i' and update the new Java_home path: export JAVA_HOME=/usr/java/jdk**1.8.0**_161/

```
# Specify any command line arguments for the Cloudera SCM Server here.
#
export JAVA_HOME=/usr/java/jdkl.8.0_161/
CMF_SERVER_ARGS=""
```

ii. Insert Command: Click 'i' to enter insert mode and then insert: wq! to save and exit from vi editor.

Step 10: Now change Java home path for other users by going to edit /etc/profile

i. Insert Command: vi /etc/profile

```
[root@ip-10-0-0-206 ~]# vi /etc/profile
[root@ip-10-0-0-206 ~]#
```

```
unset i
unset -f pathmunge
export JAVA_HOME=/usr/java/jdkl.8.0_161/
export JRE_HOME=/usr/java/jdkl.8.0_161/jre/
export PATH=$JAVA_HOME/bin:$PATH
-- INSERT --
```

ii. Insert Command: Click 'i' to enter insert mode and then insert: wq! to save and exit from vi editor.

Step 11: Now you have to update your /etc/profile using the source command and check the new java version.

```
[root@ip-10-0-0-206 ~]# source /etc/profile
[root@ip-10-0-0-206 ~]# java -version
java version "1.8.0_161"
Java(TM) SE Runtime Environment (build 1.8.0_161-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.161-b12, mixed mode)
[root@ip-10-0-0-206 ~]#
```

i. Insert Command: source /etc/profile

Step 12: Now you need to start cloudera-scm-server and cloudera-scm-agent using command line. Insert the following 2 commands shown below.

- i. Insert Command: systemctl start cloudera-scm-server
- ii. Insert Command: systemctl status cloudera-scm-server

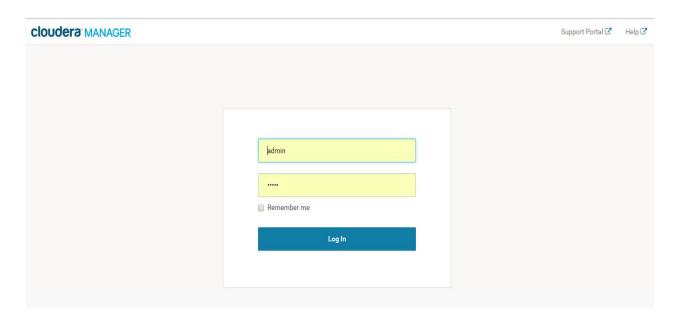
Now insert the 3rd command line shown below.

iii. Insert Command: systemctl start cloudera-scm-agent

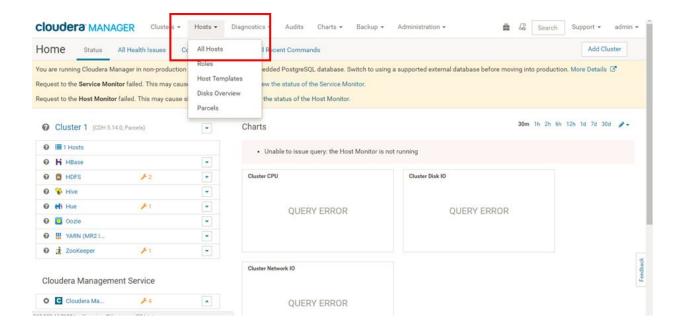
```
[root@ip-10-0-0-206 ~]# systemctl start cloudera-scm-agent [root@ip-10-0-0-206 ~]#
```

Step 13: Now go to cloudera manager and wait for a few minutes.

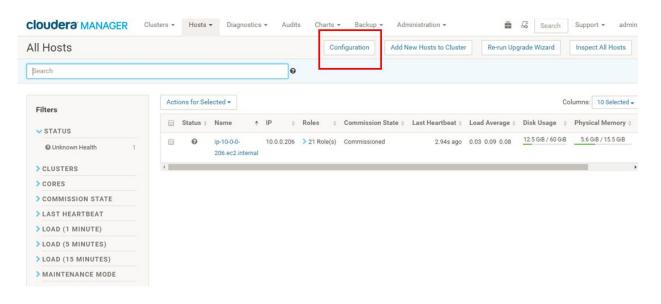
ii. Enter your Public IP Address in the link given below to access cloudera manager http://Public IP Address:7180



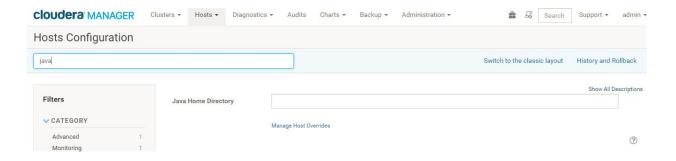
Step 14: Click on Host and click on All host.



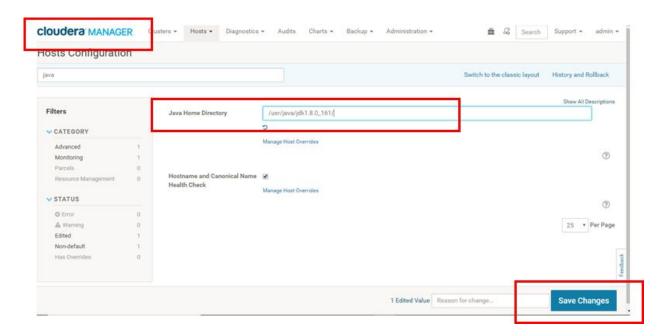
Step 15: Click on configuration:



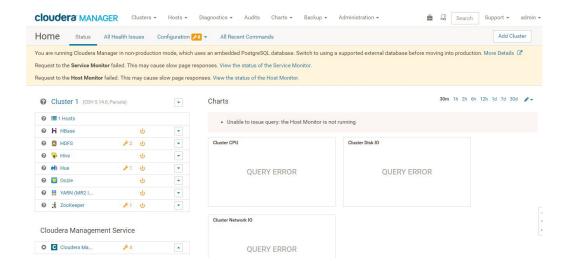
Step 16: Inside the search tab just type "java"



Step 17: Inside the JAVA HOME Directory paste the Java_home path - /usr/java/jdk1.8.0_161/

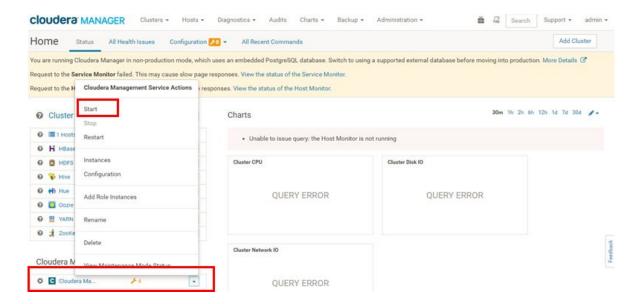


Now click on Save Changes. And then click on Cloudera Manager and you will be redirected to the Cloudera Homepage.

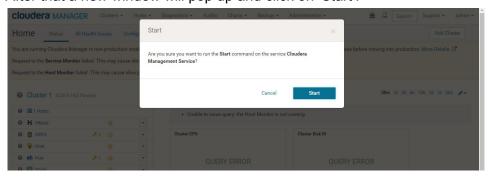


Step 18: Now you need to restart both the cloudera management service and the cluster service.

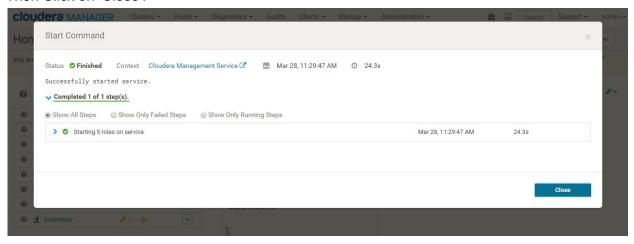
Click on cloudera management service then click on start.



After that a new window will pop up and click on 'Start'.

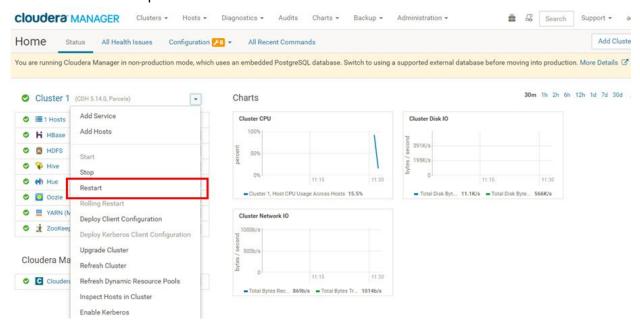


Then Click on 'Close'.

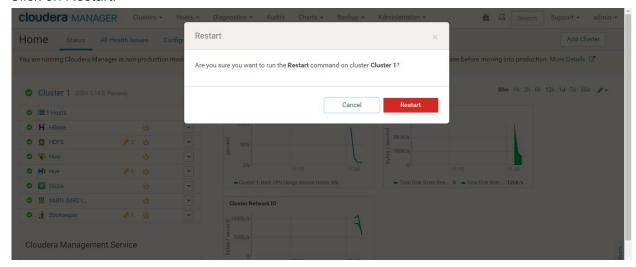


Step 19: Now Restart the cluster service and wait for few minutes.

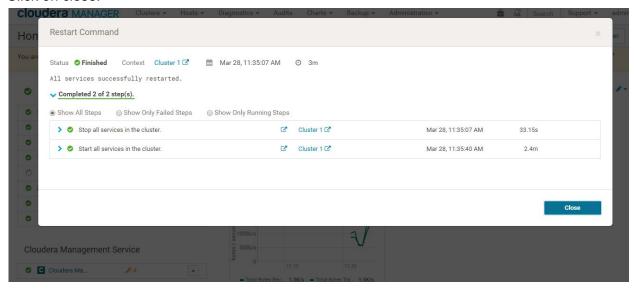
Click on the Restart option



Click on Restart.



Click on close.



Click on close.

Step 20: Now you need to verify (Java Development Kit version) jdk 1.8 is updated or not for cloudera manager.

i. Type command- ps -ef | grep namenode