

Cloudera Hadoop Installation

This manual provides you steps to Install Hadoop and associated services over a single node cluster and will give you and will give you an idea about, how to perform installation on multi node clusters.

So as per the first step, take a Linux server and access the same using “putty” from your local machine. For the installation purpose, you should have admin rights over the server, so kindly check the same from your Linux administration or you can take the server from the cloud.

If you don't have SSh (Secure Shell Login) client putty on your system, kindly download the same from the below url:-

Link to download putty:-

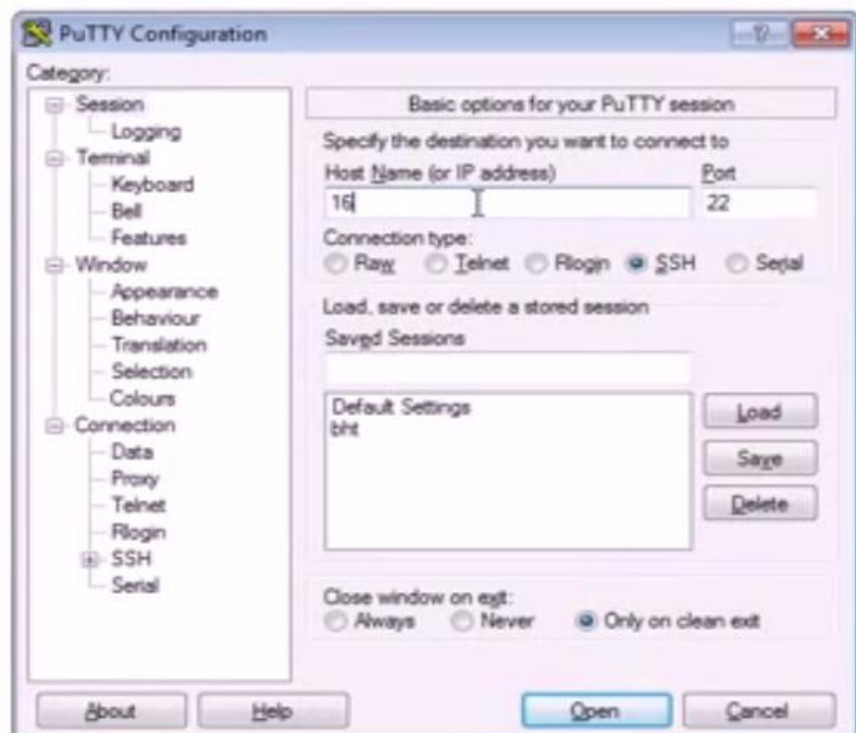
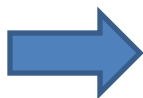
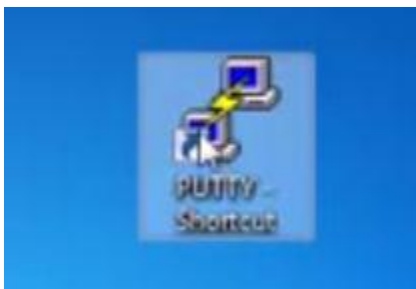
<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

Download putty.exe from here.

Then follow the below mentioned steps:-

- (1) Double click on putty
- (2) Mention the IP address of the server and click on Open
- (3) You will be directed to Command Line Interface of your Linux or Unix Server

Please refer to the below figure:-



- (4) Next step is to stop firewalls and Security Enhancers
- (5) Check what are the IPTables are at ON status

chkconfig --list iptables

chkconfig --level 123456 iptables off

service iptables stop

```
Swap: 1953 0 1953
[root@cdh-hadoop ~]# chkconfig --list iptables
error reading information on service iptables: No such file or directory
[root@cdh-hadoop ~]# chkconfig --list iptables
iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off
[root@cdh-hadoop ~]# chkconfig --level 0123456 iptables off
[root@cdh-hadoop ~]# chkconfig --list iptables
iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off
[root@cdh-hadoop ~]# service iptables stop
iptables: Flushing firewall rules: [ OK ]
iptables: Setting chains to policy ACCEPT: filter [ OK ]
iptables: Unloading modules: [ OK ]
[root@cdh-hadoop ~]# service iptables status
iptables: Firewall is not running.
[root@cdh-hadoop ~]# sestatus
SELinux status: disabled
[root@cdh-hadoop ~]#
```

- (6) Now if you are using server from the cloud, then make sure that the public IP address should be on the top, if it is then ok else do the same using vi-editor

cat /etc//hosts

- (7) Now download the cloudera manager from net using the below command:-

wget <http://archive.cloudera.com/cm4/installer/latest/cloudera-manager-installer.bin>

- (8) Obtain the execute permission over the cloudera-manager-installer.bin file

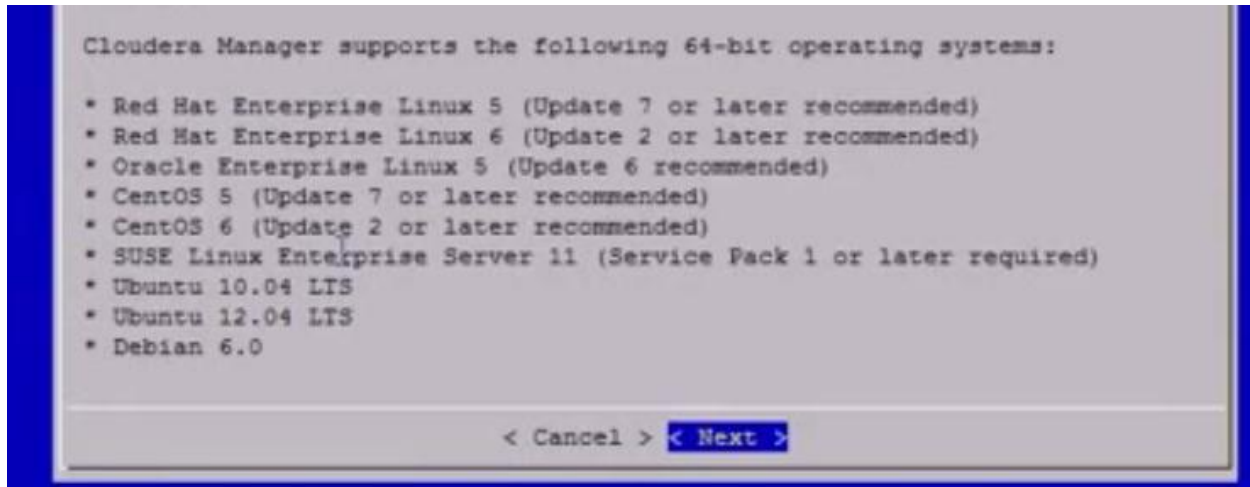
chmod u+x cloudera-manager-installer.bin

```
[root@cdh-hadoop ~]# ls
cloudera-manager-installer.bin
[root@cdh-hadoop ~]# ls -l
total 496
-rw-r--r-- 1 root root 501703 Jul 23 20:24 cloudera-manager-installer.bin
[root@cdh-hadoop ~]# chmod u+x cloudera-manager-installer.bin
[root@cdh-hadoop ~]# ls -l
total 496
-rwxr--r-- 1 root root 501703 Jul 23 20:24 cloudera-manager-installer.bin
[root@cdh-hadoop ~]# ./cloudera-manager-installer.bin
```

(9) Then run the file as:-

./cloudera-manager-installer.bin

(10) From this point onwards you will get GUI environment



(11) Click on Next and accept License agreements and at last you will land to the screen with successful installation.

(12) Then open the internet browser of your local system (chrome, IE 9 or firefox)
And enter the below url:-

http://<server_ip_address>:7180

7180 → Port of Cloudera Manager

(13) Then you will see a Logging screen as shown below

A screenshot of the Cloudera Manager login interface. It features a "Login" heading, a "Username:" label, and a text input field containing "admin". Below this is a "Password:" label and another text input field. There is a checkbox labeled "Remember me on this computer." and a blue "Login" button at the bottom.

Default Username and password is admin / admin.

(14)Then you need to select the option to be installed (free, trial or enterprise version).

Welcome to Cloudera. Which edition do you want to deploy?

Upgrading to **Cloudera Enterprise** provides important features that help you manage and monitor your Hadoop clusters in mission-critical environments.

	Cloudera Standard	Cloudera Enterprise Trial	Cloudera Enterprise
License	Free	60 Days ✓ Post trial period, the product will continue to function as Cloudera Standard . Your cluster and your data will remain unaffected .	Annual Subscription(s) Upload License
Node Limit	Unlimited	Unlimited	Unlimited
CDH	✓	✓	✓
Core Cloudera	✓	✓	✓

[Continue](#)

(15)Click on Continue and Next, until you reach this screen:-

cloudera manager Support™ adm

Specify hosts for your CDH cluster installation.

Cloudera recommends including Cloudera Manager server's host because it is often used for the Cloudera Management Service, and because this will enable health monitoring for that host.

Hint: Search for hostnames and/or IP addresses using [patterns](#) .

SSH Port: [Search](#)

(16)Herein specify the hosts where you want to install Cloudera Hadoop, but make sure that all the hosts should have same username and passwords.

(17)Now select the combination of services you want to install:-

Choose the CDH4 services that you want to install on your cluster.

Choose a combination of services to install.

- ☐ **Core Hadoop**
HDFS, MapReduce, ZooKeeper, Oozie, Hive, and Hue
- ☐ **Core with Real-Time Delivery**
HDFS, MapReduce, ZooKeeper, HBase, Oozie, Hive, and Hue
- ☒ **Core with Real-Time Query**
HDFS, MapReduce, ZooKeeper, Impala, Oozie, Hive, and Hue
- ☐ **All Services**
HDFS, MapReduce, ZooKeeper, HBase, Impala, Oozie, Hive, Hue and Sqoop.
- ☐ **Custom Services**
Choose your own services. Services required by chosen services must also be selected. Note that Flume and Solr services can be added after your initial cluster has been set up.

Inspect Role Assignments

Continue

(18)Now in the below screen, you may choose database of your choice from mysql, Oracle and postgray, but it is better to move through Embedded database

When using the Embedded Database, passwords are auto generated. Please copy them down.

☒ **Use Embedded Database**

☐ **Use Custom Databases**

Hive

Database Host Name:

Database
Type:

Database
Name :

Username:

Password:

cdh-hadoop:7432

PostgreSQL

hive

hive

gvGiwBbEj0

Service Monitor

Currently assigned to run on cdh_hadoop

Back

Test Connection

Continue

(19)Click on Test Connection to ensure that databases can be connected.

(20)Now it will install the concerned services and starts them one by one automatically

✓	Creating Hive user directory Successfully created Hive user directory.
✓	Creating Hive warehouse directory Successfully created Hive warehouse directory.
✓	Starting Hive Service Service started successfully.
✓	Creating Oozie database Oozie database created successfully.
✓	Installing Oozie ShareLib in HDFS Successfully installed Oozie ShareLib
✓	Starting Oozie Service Service started successfully.
✓	Starting Hue Service Service started successfully.
✓	Starting Cloudera Management Services Service started successfully.
✓	Deploying Client Configuration Successfully deployed all client configurations

Continue

(21)At last your Cloudera Hadoop has been installed successfully

cloudera manager

Support admin

Congratulations!

The Hadoop services are installed, configured, and running on your cluster.

Continue