

Result : The SQL is created and successfully executed.

Installing Hadoop

Aim : To perform the basic configuration setup for installing hadoop & like creating the hd user and ssh local host.

Procedure :

1) system update

```
$ sudo apt-get update
```

2) Install Java and set java-home

```
$ sudo apt-add-repository ppa:webupd8team/java
```

```
$ sudo apt-get update
```

3) Add a dedicated hadoop user

```
$ sudo addgroup hadoop
```

```
$ sudo adduser -g group hadoop hduser
```

4) Install ssh and create certificates

```
$ sudo apt-get install ssh
```

```
$ su hduser
```

5) Check if ssh works

```
$ ssh localhost
```

6) Install Hadoop

```
$ sudo tar xvzf hadoop-2.7.2.tar.gz
```

```
$ sudo mkdir -p /usr/local/hadoop
```

```
$ sudo mv hadoop-2.7.2 /usr/local/hadoop
```

```
$ sudo chown -R hduser:hadoop /usr/local/hadoop
```

configure Database 8:
namenode

Aim: Install hadoop 2.x AND Configure the name node and datanode

procedure ?

- i) After the installing of hadoop

2) Modify hadoop config files

g sudo nano w/bushyC

```
8 cd /usr/local/hadoop/hadoop-2.4.2/etc/hadoop
```

8 sudo nano hadoop-env.sh

```
$ sudo mkdir -p /usr/local/hadoop/tmp/his  
$ sudo rm -rf /usr/local/hadoop/tmp/his
```

85 udo nano hdfs-site.xml

8 sudo nano core-site.xml

ssudo nano core
nano yarn-site xmi

```
$ sudo nano /etc/hosts
```

3) Format hadoop file system

```
$ cd /usr/local/hadoop/hadoop-2.7.1/bin  
$ hadoop namenode -format
```

4) Start Hadoop

```
$ cd /usr/local/hadoop/hadoop-2.7.1/sbin  
$ start-dfs.sh $ start-darth.sh & $ ps
```

5) Check Hadoop through web UI

http://localhost:8088

http://localhost:50070

6) Stop Hadoop

```
$ stop-dfs.sh
```

```
$ stop-yarn.sh
```

TEST THE MAP Reduce Platform

Aim :- TO create the hadoop zc and test the map reduce Platform with hadoop.

procedure :-

- 1) OPEN Terminal \$ su
 haduser, password.
- 2) start dts and map reduce services
\$ cd /usr/local/hadoop/hadoop-2.7.2/sbin
\$ start-dfs.sh
\$ Start-yarn.sh
\$ JPS
- 3) OPEN NEW Terminal
\$ cd Desktop/
\$ mkdir inputdata
\$ cd inputdata/
\$ echo "Hai, Hello. How are you? How is you health?" > hello.txt
\$ cat>hello.txt
- 4) go back to old terminal
\$ hadoop fs -copyFromLocal /home/hduser/Desktop/input/hello.txt /folder/hduser
- 5) Download and open eclipse by creating workspace create new java project.
- 6) Add jar to the project.

word count

Aim = To launch hadoop & perform map reduce program for word count problem.

Procedure =

1) Open terminal

\$ su

nd user

password

2) start dts and mapreduce services

\$ cd /usr/local/hadoop-2.7.1/bin

\$ start-dfs.sh

\$ start-yarn.sh

\$ jps

3) check the hadoop through web UI

http://localhost:8083

https://localhost:50070

4) Open new terminal

\$ cd Desktop

\$ mkdir inputdata

\$ cd inputdata

\$ cat >> hello.txt

5) Go back to the terminal

\$ hadoop fs -copyFromLocal /home/hduser/Desktop/inputdata/hello.txt /folder/hduser

6) Download and open eclipse by creating workspace

Create a new java project

7) Add java to the project