

12. Install Hadoop 2.x and configure the name node and data node?

Aim :- install Hadoop 2x and configure the name node and data node

procedure :- make sure that have installed Java on the system. if not then

```
$ sudo apt update
```

```
$ sudo apt install default-jdk
```

⇒ download Hadoop 2.x package from official website and execute it by using

```
$ cd / - sudo tar xzof hadoop-xxx
```

\$ edit Basic files (or) base profile to set necessary environment variable by

```
$ source /base
```

\* configure Hadoop directory and modify the configuration files

```
$ cd Hadoop-Home /hadoop.
```

```
$ sudo nano hadoop-env.sh
```

```
$ sudo nano core-site.xml
```

\* add configuration inside

\* HDFS site : xml

```
$ cd - $ Home (ssh: id -sa pub) >> Home /s  
authorizes
```

⇒ check if SSH work

⇒ SSH local host

⇒ instal Hadoop.

hadoop-1 @ ubuntu:~\$ hdfs dfs -ls /  
# 1  
at  
and 1  
as 1  
count 1  
count 2  
count 3  
for 1  
input 1  
is 1  
job 1  
map 1  
reduce 1

Result:- Thus the map to reduce program and word count problem is created and successfully executed.



Launch the hadoop 2x and perform map  
reduce program for hadoop. goal 2

Aim :- To create a hadoop 2x and test the  
map reduce platform with hadoop.

procedure :- open terminal  
\$ su hadoop  
password  
\$ start dfs and map reduce site  
\$ cd /user/local/hadoop/hadoop-2.2.1  
\$ start - dfs -sh  
\$ start - yarn -sh  
\$ jps.

⇒ check the hadoop through web VI

http://localhost:8088

http://localhost:50070

⇒ local new terminal

\$ cd desktop

\$ mkdir input data

\$ cd input data

\$ echo Hai, Hello, How are you

\$ cat -> hello.txt.

→ extract hadoop 2.7.1

\$ sudo for xyz = hadoop 2.7.2 cat 42

// create a folder "hadoop" inside /root

\$ sudo mv /usr/lib/hadoop

localhost		exportss.html	06/02/2
drwxr-xr-x	-	xx-xx-xx	hdfs super group
drwxr-xr-x	-	xx-xx-xx	hdfs super group
drwxr-xr-x	-	xx-xx-xx	hdfs super group
drwxr-xr-x	-	xx-xx-xx	hdfs super group

Result : The name node and data node is created and executed successfully



On back bold terminal  
\$ hadoop fs -copy from local/home/holder  
inputdata/hellow.txt folder/holder

// checking hellow.txt name mode using  
web

=> download and open eclipse by creating  
a new workspace

=> add sys file form

→ local host : 50700 | Eclipse.html

drwxr-xr-x 2 hduser supergroup

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drwxr-xr-x 2 hduser supergroup

drwxr-xr-x 2 hduser supergroup

Result :- This the map reduce function  
is cleared and executed successfully

19 launch the hadoop 2x and perform map reduce program for a word count problem

Aim:- To launch the hadoop 2x and perform map program for count problem.

procedure :-

\* open terminal

\* sc hd user

\* password

\* start- dts and your

\$ cd user / local / hadoop / hadoop 7.

bin  
\$ start -dts.sh

\$ start -login.sh

\$ J-P-S

\* check hadoop in web VI

11 Goto browse <http://local host : 8080>

hit P // local host : 8080

\* open new terminal

\$ cd desktop1

\$ mkdir dir-input-data

\$ cd input data

\$ echo Hello, How are you

\$ cat >> hellow.txt



## Basic Configuration of Hadoop

Ques: To perform the basic configuration for installation of Hadoop like creation of configuration the HDFS and SSH local.

Procedure:

1) The first thing is setup the web on your PC. Run the following commands to proceed.

```
$ sudo apt - add - repository PPA: web
```

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

```
$ sudo apt - get install oracle - Java &
```

2) These steps must be followed for error of Java.

```
$ sudo apt group hadoop
```

```
$ sudo add user hduster Sudo
```

3) Install SSH and create configuration.

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

```
$ sudo user
```

```
$ ssh -key gh.tasa -p 22
```

output: