Test the map Reduce platform. (23)

Aim To create the hadoop 2x and test the map reduce platform with hadoop

Procedure

1) open Terminal
   → sudo user ; password ;

2) Start dfs and map reduce services.
   → cd /usr / local / hadoop -2.7.2 / sbin
   → start - yarn . sh
   → JPS.

3) open new Terminal.
   → cd Desktop /
   → mkdir Input data
   → cd input data /
   → Echo " hai Hello How are you? How is you
      Health 2 >> Hello . txt
   → cat > hello . test

4) Go back to old terminal
   → hadoop fs - copy from local home/hd user/Desktop
      input / hello . tx / Hello / Hdfs

5. Download and open eclipse by creating workspace.
   Create a new project

7) Add Jar to the project.

Experiment-24.

Aim. To launch hadoop 2.x & perform map reduce program for word count problem.

procedure

→ open terminal
→ sc hd user.
→ password
→ start dfs & yarn services.
→ cd/usr/local/hadoop (hadoop 2.7.2) bin
    $start-dfs.sh
    →start-login.sh
    →jps
→ check hadoop in web UI
    → Go to browser https://localhost:5007 to
        http://localhost:8088.

→ open a terminal
    → cd desktop
    → mkdir input data
    → cd input data
    → echo 'hadoop hello
    → cat >> hello.txt
→ Go to the old terminal & hadoop fs -copy
    local /home/hd25/desktop/input data

Installing Hadoop (21)

AIM To perform the basic configuration setup for installing hadoop 2x like creating the hd user and SSH local host.

Procedure:-

1) System update
   → sudo apt-get update.
2) Install Java and Java-home
   → sudo apt-get update.
   → sudo apt-get update.
3. Add a dedicated hadoop user.
   → sudo add group hadoop
   → sudo add user -In group hadoop hduser.
4. Install SSH and create certificates.
   → sudo apt-get install ssh.
   → su hd user.
5. check if SSH works.
   s/ ssh bcas host
6. Install Hadoop.
   → sudo wget http://mirrors.sonic.net/apache/hadoop/common/hadoop-2.7.2/hadoop-2.7.2.tar.gz
   → sudo mkdir /usr/local/hadoop
   → sudo mv hadoop-2.7.2 /usr/local/hadoop
   → sudo chown -R hduser:hadoop /usr/local/hadoop.

Configure Data & name node (22)

AIM: Install hadoop 2x And Configure the namenode and datanode

procedure:

⇒ After the Installing of hadoop

⇒ modify hadoop config files:

→ Sudo nano ~/.bashrc

→ cd /usr/local/hadoop/hadoop-2.7.2/etc/hadoop

→ Sudo nano hadoop-env.sh.

→ Sudo mkdir -p usr/local/hadoop tmp/dfs

→ Sudo nano hdfs-site.xml

→ Sudo nano core-site.xml

→ Sudo nano yarn-site.xml.

⇒ format Hadoop file systems

→ cd /usr/local/hadoop/hadoop-2.7.2/bin

→ hadoop namenode -format

⇒ start hadoop

→ cd /usr/local/hadoop/hadoop-2.7.2/sbin

→ start-dfs.sh ⇒ start-yarn.sh

⇒ Check Hadoop through web UI

http://localhost:8088

http://localhost:50070

⇒ stop Hadoop

→ stop-dfs.sh

→ stop-yarn.sh.