

Experiment - 3.1

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Subject Name: Cloud Computing Subject Code: 21CSP-378

Aim: Install Hadoop single node cluster and run applications like word count.

Objective: Running application on Hadoop

Script and Output:

- 1. Download the Java 8 Package. Save this file in your home directory.
- 2. Extract the Java Tar File. (Command: tar -xvf jdk-8u101-linux-i586.tar.gz)
- 3. Download the Hadoop 2.7.3 Package.
- 4. Extract the Hadoop tar File.
- 5. Add the Hadoop and Java paths in the bash file (.bashrc). Open. Bashrc file. Now, add Hadoop and Java Path
- 6. Edit the Hadoop Configuration files.
- 7. Open *core-site.xml* and edit the property.
- 8. Edit hdfs-site.xml and edit the property inside configuration tag
- 9. Edit the *mapred-site.xml* file and edit the property inside configuration tag
- 10. Edit yarn-site.xml and edit the property inside configuration tag
- 11. Edit *hadoop-env.sh* and add the Java Path
- 12. Go to Hadoop home directory and format the NameNode.
- 13. Once the NameNode is formatted, go to hadoop-2.7.3/sbin directory and start all the daemons.
- 14. To check that all the Hadoop services are up and running, run the below command.
- 15. Now open the Mozilla browser and go to localhost:50070/dfshealth.html to check the NameNode interface.

Start Name Node:

Start Data Node:

```
edureka@localhost:=/hadoop-2.7.3/sbin - n |
File Edit Vow Search Jerminal Help
[edureka@localhost sbin]$ ./hadoop-daemon.sh start datanode
starting datanode, logging to /home/edureka/hadoop-2.7.3/logs/hadoop-edureka-datano
de-localhost.localdomain.out
[edureka@localhost sbin]$ jps
22113 NameNode
22278 Jps
22286 DataNode
[edureka@localhost sbin]$ |
```

Start Resource Manager:



Start Node Manager:



Start Job History Server:



