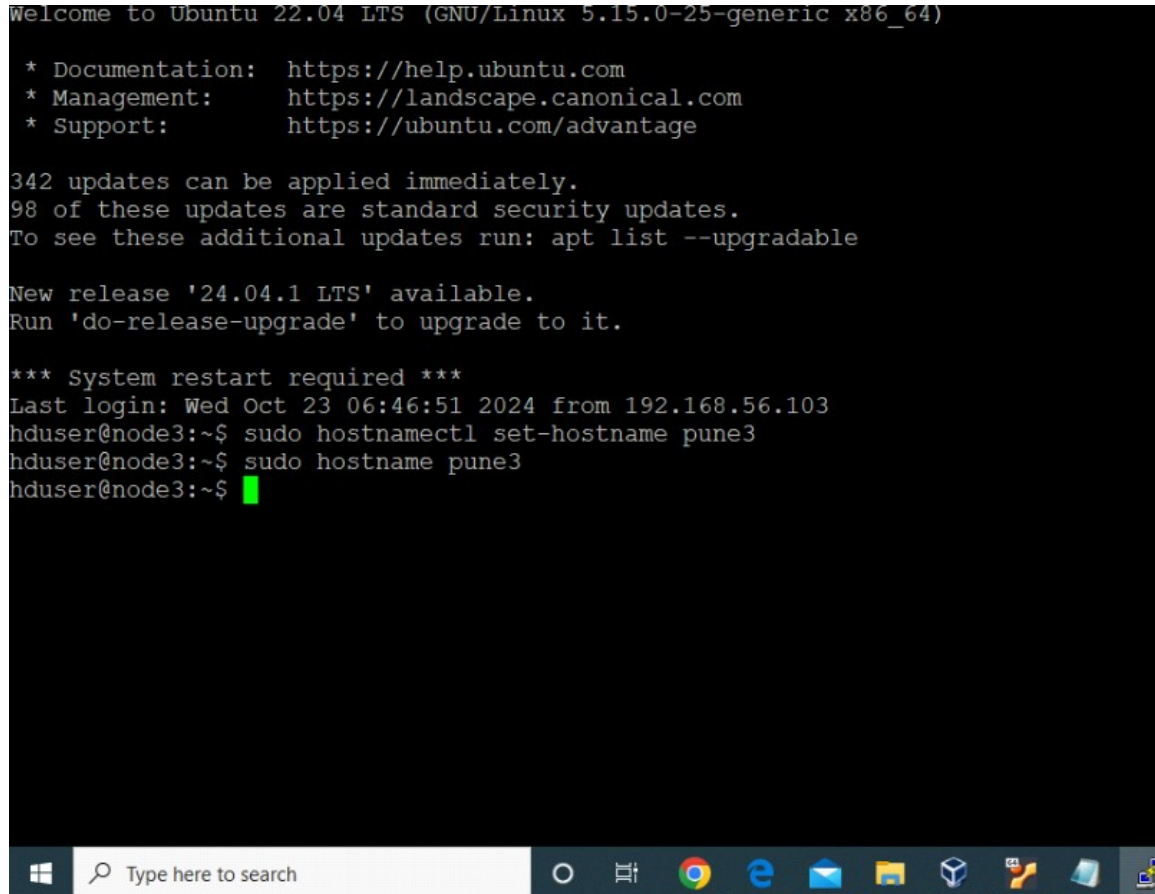# Assignment No : 3

1)hostname command

```
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-25-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

342 updates can be applied immediately.
98 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '24.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Wed Oct 23 06:46:51 2024 from 192.168.56.103
hduser@node3:~$ sudo hostnamectl set-hostname pune3
hduser@node3:~$ sudo hostname pune3
hduser@node3:~$
```

2)scp /usr/local/hadoop/

```
hadoop-mapreduce-client-jobclient-3.2.4-tests.jar    100% 1650KB   98.6MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_2.7.2.xml          100% 9931     10.8MB/s   00:00
Apache_Hadoop_MapReduce_Common_2.8.3.xml             100%   11KB   12.4MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_3.2.2.xml          100% 9332     12.5MB/s   00:00
Apache_Hadoop_MapReduce_Core_2.8.3.xml               100% 1150KB  191.0MB/s   00:00
Apache_Hadoop_MapReduce_Common_3.1.0.xml             100%   13KB   12.7MB/s   00:00
Apache_Hadoop_MapReduce_Core_2.6.0.xml               100% 1295KB   44.7MB/s   00:00
Apache_Hadoop_MapReduce_Common_2.8.2.xml             100%   11KB    8.7MB/s   00:00
Apache_Hadoop_MapReduce_Core_3.1.0.xml               100% 1177KB  168.3MB/s   00:00
Apache_Hadoop_MapReduce_Core_2.8.2.xml               100% 1150KB  209.4MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_2.8.0.xml          100% 6672      6.1MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_3.1.0.xml          100% 8593      9.6MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_2.8.3.xml          100% 6679      7.5MB/s   00:00
Apache_Hadoop_MapReduce_Common_2.6.0.xml             100%   22KB   17.9MB/s   00:00
Apache_Hadoop_MapReduce_Core_3.2.2.xml               100% 1181KB  178.6MB/s   00:00
Apache_Hadoop_MapReduce_Common_2.8.0.xml             100%   11KB   14.5MB/s   00:00
Apache_Hadoop_MapReduce_Core_2.10.0.xml              100% 1163KB   45.5MB/s   00:00
Apache_Hadoop_MapReduce_Core_2.8.0.xml               100% 1150KB   86.7MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_2.8.2.xml          100% 6679      5.1MB/s   00:00
Null.java                                            100%  849    786.5KB/s   00:00
Apache_Hadoop_MapReduce_JobClient_2.6.0.xml          100%   61KB   31.7MB/s   00:00
Apache_Hadoop_MapReduce_Common_2.7.2.xml             100%   14KB    7.9MB/s   00:00
Apache_Hadoop_MapReduce_Core_2.7.2.xml               100% 1140KB   26.2MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_2.10.0.xml         100% 8259      5.6MB/s   00:00
Apache_Hadoop_MapReduce_Common_2.10.0.xml            100%   12KB    8.0MB/s   00:00
Apache_Hadoop_MapReduce_Core_3.1.2.xml               100% 1178KB   75.3MB/s   00:00
Apache_Hadoop_MapReduce_Common_3.2.2.xml             100%   13KB    7.7MB/s   00:00
Apache_Hadoop_MapReduce_JobClient_3.1.2.xml          100% 8638      3.9MB/s   00:00
hduser@node2:~$ exit
logout
```

3)commands starting datanode and nodemanager

```
hduser@pune3:~$ hdfs --daemon start datanode
hduser@pune3:~$ yarn --daemon start nodemanager
hduser@pune3:~$ jps
179474 DataNode
179563 NodeManager
179673 Jps
hduser@pune3:~$
```

4)workers

```
  GNU nano 6.2
node1
node2
pune3
```

5)hdfs dfsadmin -report

```
        Missing block groups: 0
        Low redundancy blocks with highest priority to recover: 0
        Pending deletion blocks: 0

-------------------------------------------------
Live datanodes (2):

Name: 192.168.56.104:9866 (node1)
Hostname: node1
Decommission Status : Normal
Configured Capacity: 232015802368 (216.08 GB)
DFS Used: 98304 (96 KB)
Non DFS Used: 10569306112 (9.84 GB)
DFS Remaining: 209586114560 (195.19 GB)
DFS Used%: 0.00%
DFS Remaining%: 90.33%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 1
Last contact: Wed Oct 23 07:29:19 EDT 2024
Last Block Report: Wed Oct 23 07:03:41 EDT 2024
Num of Blocks: 7


Name: 192.168.56.106:9866 (pune3)
Hostname: pune3
Decommission Status : Normal
Configured Capacity: 232015802368 (216.08 GB)
DFS Used: 98304 (96 KB)
Non DFS Used: 10717040640 (9.98 GB)
DFS Remaining: 209438380032 (195.05 GB)
DFS Used%: 0.00%
DFS Remaining%: 90.27%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 1
Last contact: Wed Oct 23 07:25:48 EDT 2024
Last Block Report: Wed Oct 23 07:25:48 EDT 2024
Num of Blocks: 7


hduser@manager:/usr/local/hadoop/etc/hadoop$
```

6) entry decommsion dfs.host.exclude

```
  GNU nano 6.2
node2
```

7)entry in hdfs-site.xml

```
  GNU nano 6.2
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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    http://www.apache.org/licenses/LICENSE-2.0

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  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License. See accompanying LICENSE file.
-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
<property>
<name>dfs.name.dir</name>
<value>/usr/local/hadoop/hd-data/nn</value>
</property>
<property>
<name>dfs.replication</name>
<value>2</value>
</property>
<property>
<name>dfs.namenode.acls.enabled</name>
<value>true</value>
</property>
<property>
<name>dfs.hosts.exclude</name>
<value>/usr/local/hadoop/etc/hadoop/dfs.hosts.exclude</value>
</property>
</configuration>
```
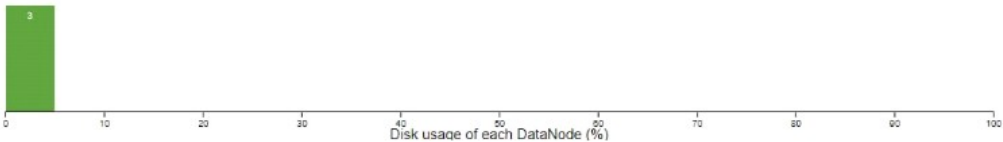
8)hdfs.dfsadmin-refreshNodes

```
duser@manager:~$ hdfs dfsadmin -refreshNodes

efresh nodes successful
duser@manager:~$
duser@manager:~$
```

9)hdfs.dfsadmin -report node2 status decommision

Datanode Information

✔ In service   ❶ Down   ⊘ Decommissioning   ⊘ Decommissioned   ⊙ Decommissioned & dead
🔧 Entering Maintenance   🔧 In Maintenance   🔧 In Maintenance & dead

Datanode usage histogram
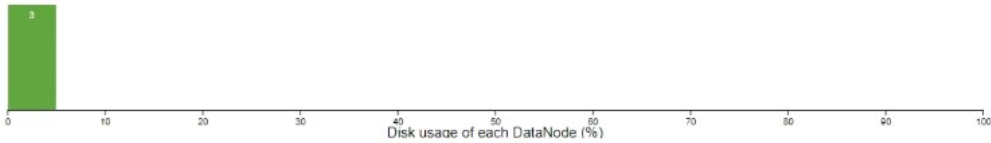
Disk usage of each DataNode (%)

In operation

Show 25 ∨ entries   Search:

Node	Http Address	Last contact	Last Block Report	Capacity		Blocks	Block pool used	Version
✔node1:9866 (192.168.56.104:9866)	http://node1:9864	1s	13m	216.08 GB		21	208 KB (0%)	3.2.4
✔pune3:9866 (192.168.56.107:9866)	http://pune3:9864	19s	13m	216.08 GB		21	44.67 KB (0%)	3.2.4
⊘node2:9866 (192.168.56.105:9866)	http://node2:9864	1s	13m	216.08 GB		21	208 KB (0%)	3.2.4

Showing 1 to 3 of 3 entries   Previous 1 Next

Datanode Information

Datanode usage histogram

Disk usage of each DataNode (%)

In operation

Show [25 ▾] entries   Search: [   ]

Node	Http Address	Last contact	Last Block Report	Capacity	Blocks	Block pool used	Version
✔ node1:9866 (192.168.56.104:9866)	http://node1:9864	0s	16m	216.08 GB ▮	21	208 KB (0%)	3.2.4
✔ node2:9866 (192.168.56.105:9866)	http://node2:9864	0s	16m	216.08 GB ▮	21	208 KB (0%)	3.2.4
✔ pune3:9866 (192.168.56.107:9866)	http://pune3:9864	235s	16m	216.08 GB ▮	21	44.67 KB (0%)	3.2.4

Showing 1 to 3 of 3 entries   Previous [1] Next