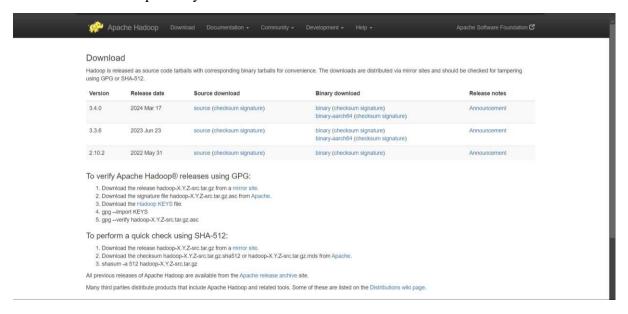
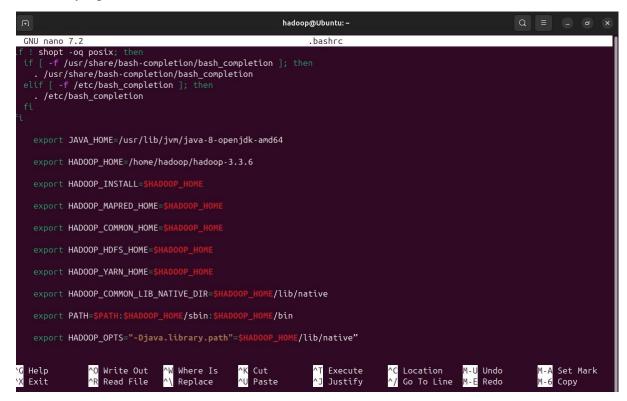
### **Exp. No: 1**

# **Installation of Hadoop**

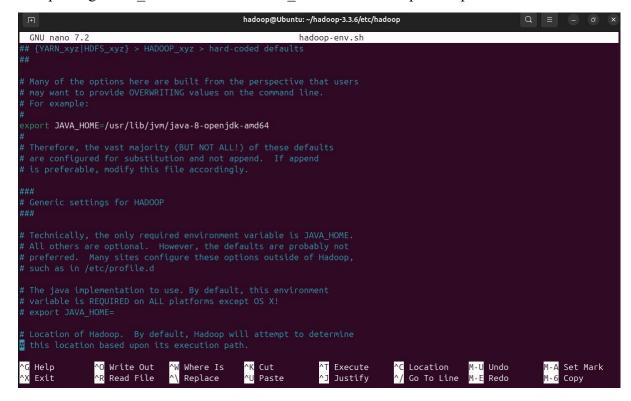
1. Download Hadoop Binary file



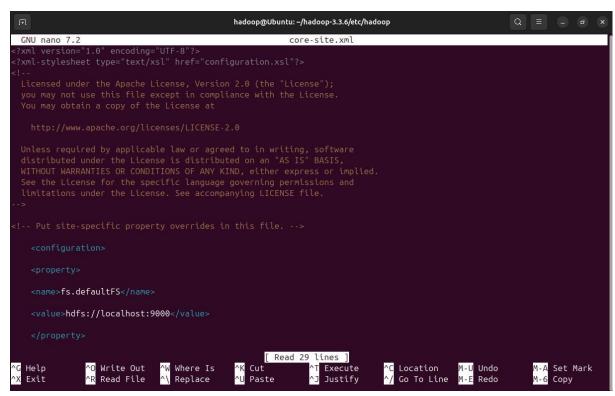
### 2. Modifying .bashrc file



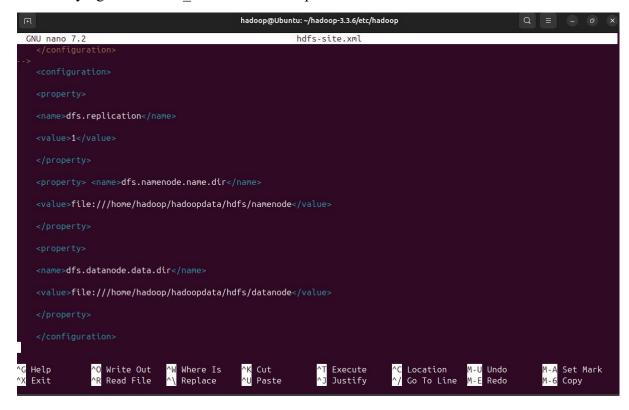
## 3. Updating JAVA\_HOME in \$HADOOP\_HOME/etc/hadoop/hadoop-env.sh



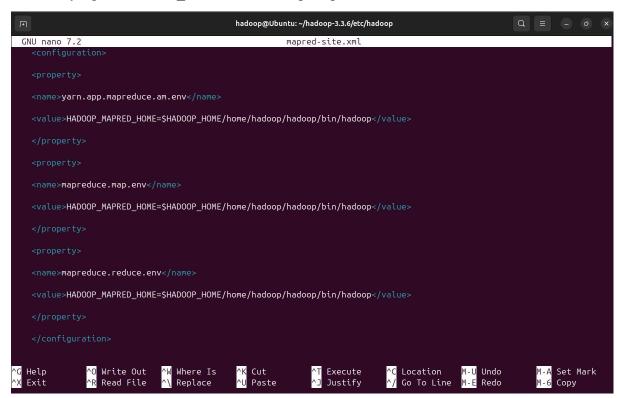
## 4. Modifying \$HADOOP\_HOME/etc/hadoop/core-site.xml



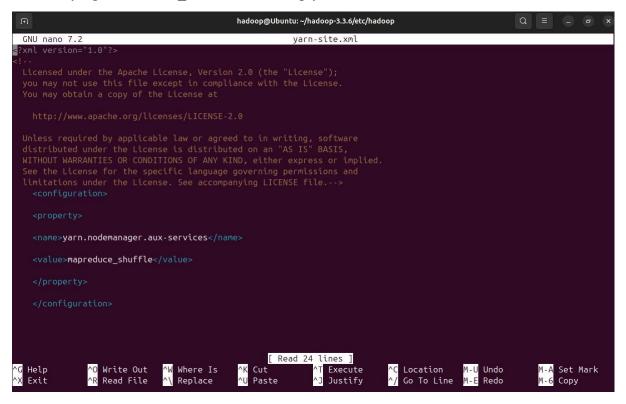
5. Modifying \$HADOOP\_HOME/etc/hadoop/hdfs-site.xml



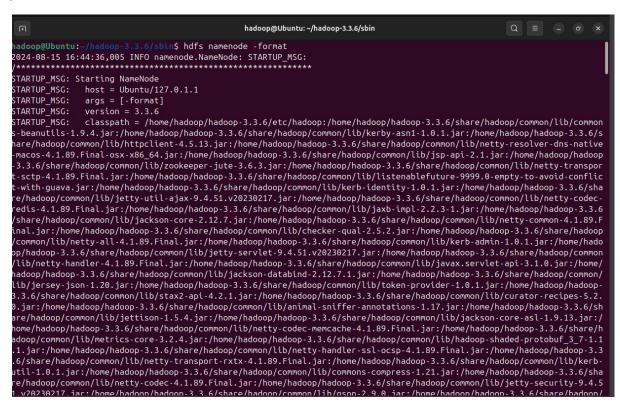
6. Modifying \$HADOOP\_HOME/etc/hadoop/mapred-site.xml



### 7. Modifying \$HADOOP\_HOME/etc/hadoop/yarn-site.xml



#### 8. Execute hdfs namenode -format



```
Q =
                                        hadoop@Ubuntu: ~/hadoop-3.3.6/sbin
2024-08-15 16:44:40,084 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.num.users = 10
2024-08-15 16:44:40,084 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.windows.minutes = 1,5,25
2024-08-15 16:44:40,121 INFO namenode.FSNamesystem: Retry cache on namenode is enabled
2024-08-15 16:44:40,121 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total heap and retry cache entry expir
 time is 600000 millis
2024-08-15 16:44:40,146 INFO util.GSet: Computing capacity for map NameNodeRetryCache
2024-08-15 16:44:40,150 INFO util.GSet: VM type
                                             = 64-bit
2024 08-15 16:44:40,153 INFO util.GSet: 0.029999999329447746% max memory 871.5 MB = 267.7 KB
2024-08-15 16:44:43,917 INFO common.Storage: Storage directory /home/hadoop/hadoopdata/hdfs/namenode has been successfu
lv formatted.
2024-08-15 16:44:44,225 INFO namenode.FSImageFormatProtobuf: Saving image file /home/hadoop/hadoopdata/hdfs/namenode/cu
rent/fsimage.ckpt_000000000000000000 using no compression
2024-08-15 16:44:44,577 INFO namenode.FSImageFormatProtobuf: Image file /home/hadoop/hadoopdata/hdfs/namenode/current/f
2024-08-15 16:44:44,630 INFO namenode.NNStorageRetentionManager: Going to retain 1 images with txid >= 0
2024-08-15 16:44:44,661 INFO namenode.FSNamesystem: Stopping services started for active state
2024-08-15 16:44:44,661 INFO namenode.FSNamesystem: Stopping services started for standby state
2024-08-15 16:44:44,675 INFO namenode.FSImage: FSImageSaver clean checkpoint: txid=0 when meet shutdown.
2024-08-15 16:44:44,685 INFO namenode.NameNode: SHUTDOWN_MSG:
SHUTDOWN_MSG: Shutting down NameNode at Ubuntu/127.0.1.1
hadoop@Ubuntu:~/hadoop-3.3.6/sbin$
```

#### 9. Execute start-dfs.sh

```
hadoop@Ubuntu:-/hadoop-3.3.6/sbin$ start-dfs.sh
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [Ubuntu]
2024-08-15 16:47:24,236 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using buil tin-java classes where applicable
```

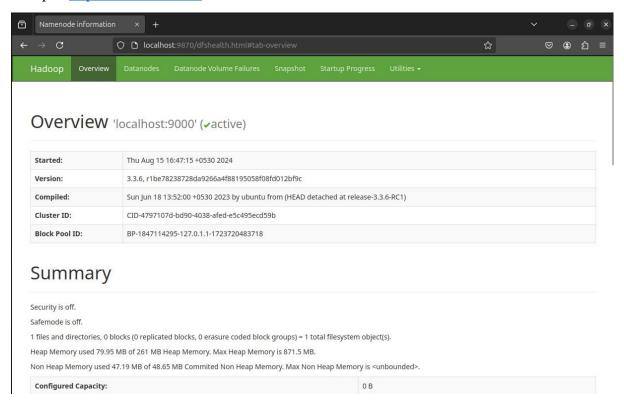
### 10. Execute start-yarn.sh

```
hadoop@Ubuntu:-/hadoop-3.3.6/sbin$ start-yarn.sh
Starting resourcemanager
Starting nodemanagers
hadoop@Ubuntu:-/hadoop-3.3.6/sbin$
```

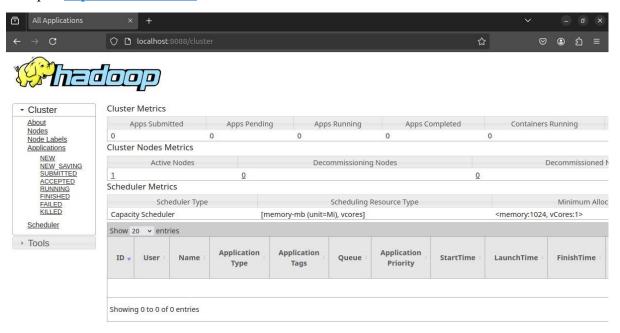
### 11. Execute jps command

```
hadoop@Ubuntu:-/hadoop-3.3.6/sbin$ jps
4758 NodeManager
4390 SecondaryNameNode
5111 Jps
4632 ResourceManager
4015 NameNode
```

## 12. Open <a href="http://localhost:9870">http://localhost:9870</a>



### 13. Open <a href="http://localhost:8088">http://localhost:8088</a>



# 14. Open <a href="http://localhost:8042">http://localhost:8042</a>

