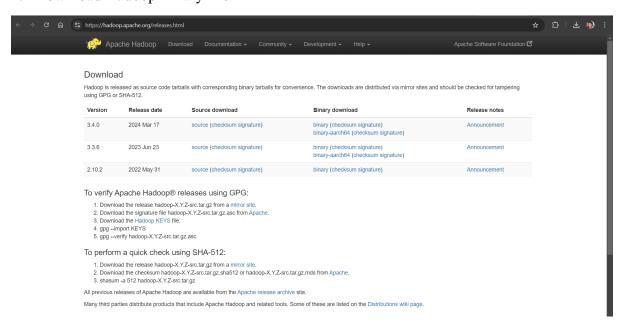
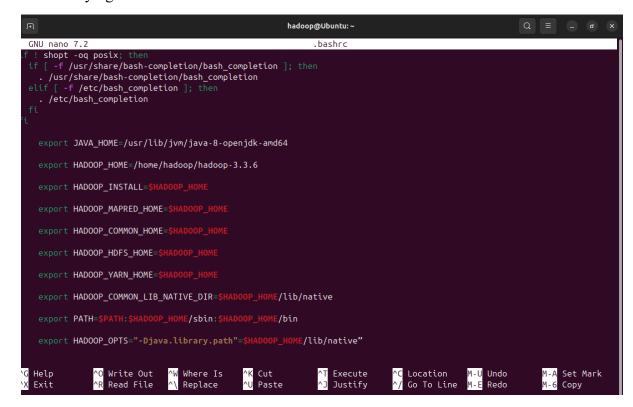
### **Exp. No: 1**

# **Installation of Hadoop**

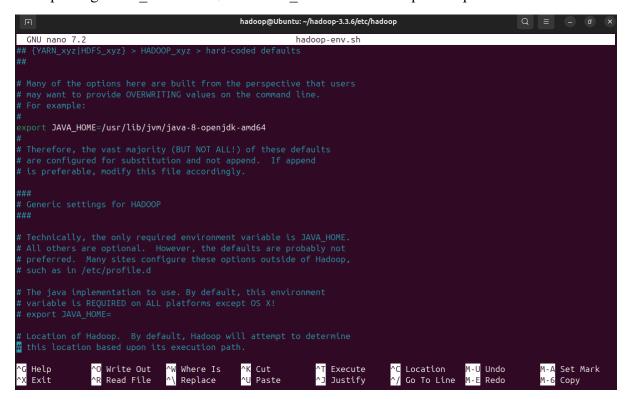
1. Download Hadoop Binary file



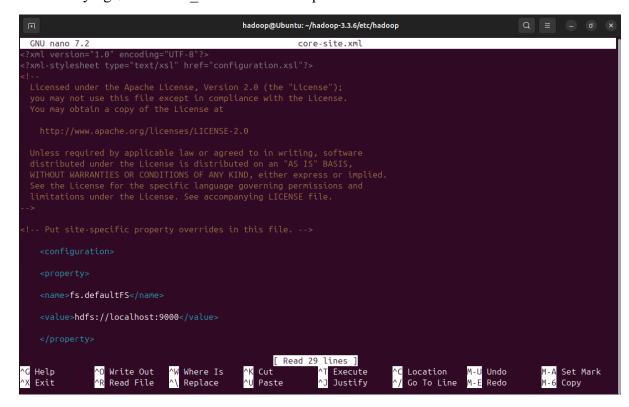
### 2. Modifying .bashrc file



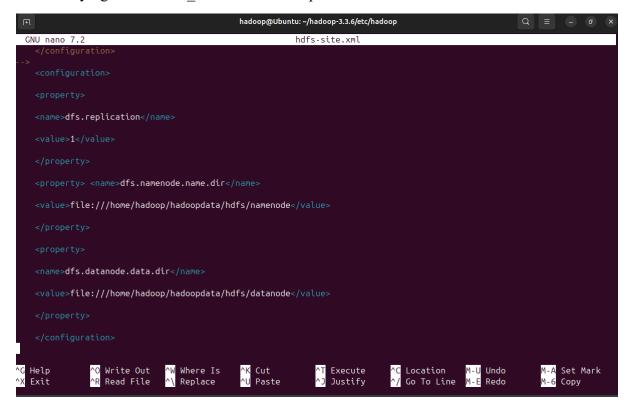
3. Updating JAVA\_HOME in \$HADOOP\_HOME/etc/hadoop/hadoop-env.sh



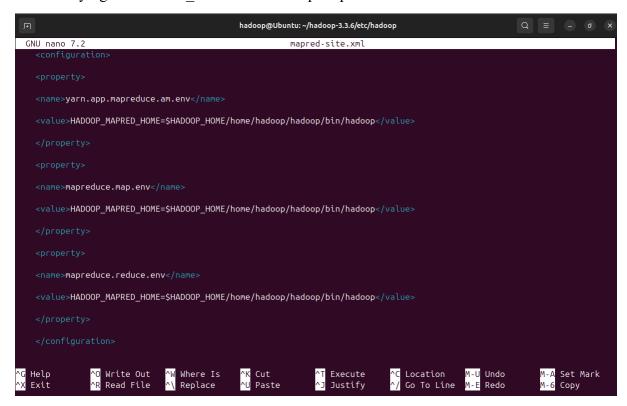
4. Modifying \$HADOOP\_HOME/etc/hadoop/core-site.xml



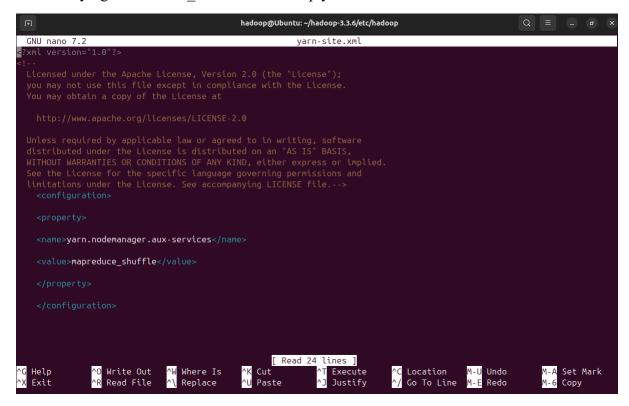
5. Modifying \$HADOOP\_HOME/etc/hadoop/hdfs-site.xml



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



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



### 8. Execute hdfs namenode -format

```
hadoop@Ubuntu: ~/hadoop-3.3.6/sbin
 adoop@Ubuntu:~/hadoop-3.3.6/sbin$ hdfs namenode -format
2024-08-15 16:44:36,005 INFO namenode.NameNode: STARTUP_MSG:
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = Ubuntu/127.0.1.1
 TARTUP_MSG:
                                args = [-format]
STARTUP_MSG:
                                version = 3.3.6
                               classpath = /home/hadoop/hadoop-3.3.6/etc/hadoop:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/common
s-beanutils-1.9.4.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/kerby-asn1-1.0.1.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/httpclient-4.5.13.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-resolver-dns-native-macos-4.1.89.Final-osx-x86_64.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/jsp-api-2.1.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/zookeeper-jute-3.6.3.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-transport-sctp-4.1.89.Final.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/listenablefuture-9999.0-empty-to-avoid-conflic
  -with-guava.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/kerb-identity-1.0.1.jar:/home/hadoop/hadoop-3.3.6/sha
 e/hadoop/common/lib/jetty-util-ajax-9.4.51.v20230217.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-codec-
edis-4.1.89.Final.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/jaxb-impl-2.2.3-1.jar:/home/hadoop/hadoop-3.3.6
  share/hadoop/common/lib/jackson-core-2.12.7.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-common-4.1.89.F
inal.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/checker-qual-2.5.2.jar:/home/hadoop/hadoop-3.3.6/share/hadoop
that.jar:/nome/hadoop/hadoop-3.3.b/share/hadoop/common/ttb/checker-quat-2.3.2.jar:/nome/hadoop/hadoop-3.3.b/share/hadoop/common/lib/netty-all-4.1.89.Final.jar:/home/hadoop-3.3.6/share/hadoop/common/lib/hetty-servlet-9.4.51.v20230217.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/jetty-servlet-9.4.51.v20230217.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/javax.servlet-api-3.1.0.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/common/lib/jersey-json-1.20.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/stax2-api-4.2.1.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/curator-recipes-5.2.
 .jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/animal-sniffer-annotations-1.17.jar:/home/hadoop/hadoop-3.3.6/sh
are/hadoop/common/lib/jettison-1.5.4.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/jackson-core-asl-1.9.13.jar:/
nome/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-codec-memcache-4.1.89.Final.jar:/home/hadoop/hadoop-3.3.6/share/h
adoop/common/lib/metrics-core-3.2.4.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/hadoop-shaded-protobuf_3_7-1.1
.1.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-handler-ssl-ocsp-4.1.89.Final.jar:/home/hadoop/hadoop-3.3
.6/share/hadoop/common/lib/netty-transport-rxtx-4.1.89.Final.jar:/home/hadoop/hadoop/-3.3.6/share/hadoop/common/lib/kerb-
util-1.0.1.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/commons-compress-1.21.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-codec-4.1.89.Final.jar:/home/hadoop/hadoop-3.3.6/share/hadoop/hadoop-3.3.6/share/hadoop/common/lib/netty-security-9.4.5
1.v20230217.iar:/home/hadoon/hadoon-3.3.6/share/hadoon/common/lib/nson-2.9.0.iar:/home/hadoon/hadoon-3.3.6/share/hadoon/
```

```
Q = - m
                                          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 16:44:43,917 INFO common.Storage: Storage directory /home/hadoop/hadoopdata/hdfs/namenode has been successfu
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
```

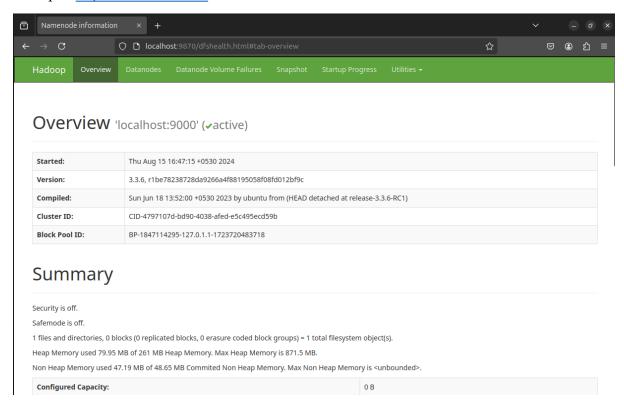
#### 10. Execute start-yarn.sh

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

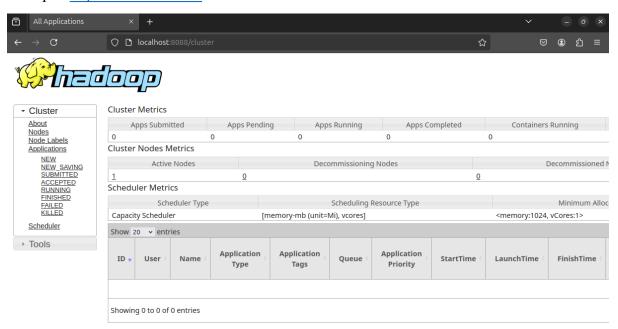
### 11. Execute jps command

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

# 12. Open http://localhost:9870



## 13. Open http://localhost:8088



# 14. Open http://localhost:8042

