

## OUTPUTS:

```
hdp123@stud-OptiPlex-3060: /home/stud/Desktop

stud@stud-OptiPlex-3060:~$ sudo apt-get update
[sudo] password for stud:
Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [41.5 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [18.5 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [101 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [268 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7,976 B]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [12.9 kB]
Fetched 789 kB in 4s (200 kB/s)
Reading package lists... Done
stud@stud-OptiPlex-3060:~$ sudo apt-get install default-jdk
java -version
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
default-jdk is already the newest version (2:1.11-72build2).
The following packages were automatically installed and are no longer required:
  linux-headers-5.15.0-53 linux-headers-5.15.0-53-generic
  linux-image-5.15.0-53-generic linux-modules-5.15.0-53-generic
  linux-modules-extra-5.15.0-53-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 269 not upgraded.
openjdk version "11.0.18" 2023-01-17
OpenJDK Runtime Environment (build 11.0.18+10-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.18+10-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
stud@stud-OptiPlex-3060:~$ sudo addgroup hadoop
addgroup: The group 'hadoop' already exists.
stud@stud-OptiPlex-3060:~$ sudo adduser --ingroup hadoop hdp123
adduser: The user 'hdp123' already exists.
stud@stud-OptiPlex-3060:~$ sudo adduser hdp123 sudo
The user 'hdp123' is already a member of 'sudo'.
stud@stud-OptiPlex-3060:~$ sudo apt-get - install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.9p1-3ubuntu0.1).
The following packages were automatically installed and are no longer required:
  linux-headers-5.15.0-53 linux-headers-5.15.0-53-generic
  linux-image-5.15.0-53-generic linux-modules-5.15.0-53-generic
  linux-modules-extra-5.15.0-53-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 269 not upgraded.
stud@stud-OptiPlex-3060:~$ su - hdp123
Password:
hdp123@stud-OptiPlex-3060:~$ ssh-keygen -t rsa -P ""
Generating public/private rsa key pair.
Enter file in which to save the key (/home/hdp123/.ssh/id_rsa):
/home/hdp123/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Your identification has been saved in /home/hdp123/.ssh/id_rsa
Your public key has been saved in /home/hdp123/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:cd5mebfQsvg7Uy9i3gfVKDDbtfQdclxdM2vTuDs1veU hdp123@stud-OptiPlex-3060
The key's randomart image is:
+---[RSA 3072]-----+
|      .0*|
|      o .0=*|
|      . = o+B=|
|      +..0.=.B|
|      S . =+0+=|
|      o..=*|=|
|      . .++E|
|      ++..0|
|      o..+0 |
+---[SHA256]-----+
hdp123@stud-OptiPlex-3060:~$ cat $HOME/.ssh/id_rsa.pub >> $HOME/.ssh/authorized_keys
hdp123@stud-OptiPlex-3060:~$ ssh localhost
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.19.0-40-generic x86_64)

# Description of host information:
#   hostname: stud-OptiPlex-3060
#   ip: 10.0.2.15
#   mac: 08:00:27:35:89:12
#   domain: stud-OptiPlex-3060
```

Download Hadoop :

<http://www-eu.apache.org/dist/hadoop/common/>

Cut paste the hadoop tar file on Desktop

```
hdp123@stud-OptiPlex-3060: /home/stud/Desktop
Your identification has been saved in /home/hdp123/.ssh/id_rsa
Your public key has been saved in /home/hdp123/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:cd5mebfQsvg7Uy9i3gfvKDDbtfQdclxdM2vTuDs1veU hdp123@stud-OptiPlex-3060
The key's randomart image is:
+---[RSA 3072]-----+
|          .o*|
|         o .o=*|
|        . = o+B=|
|       +..o.=.B|
|      S . =+o+=|
|     o..=*|=|
|    . .++E|
|   ++..o|
|  o.+=o |
+---[SHA256]-----+
hdp123@stud-OptiPlex-3060:~$ cat $HOME/.ssh/id_rsa.pub >> $HOME/.ssh/authorized_keys
hdp123@stud-OptiPlex-3060:~$ ssh localhost
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.19.0-40-generic x86_64)

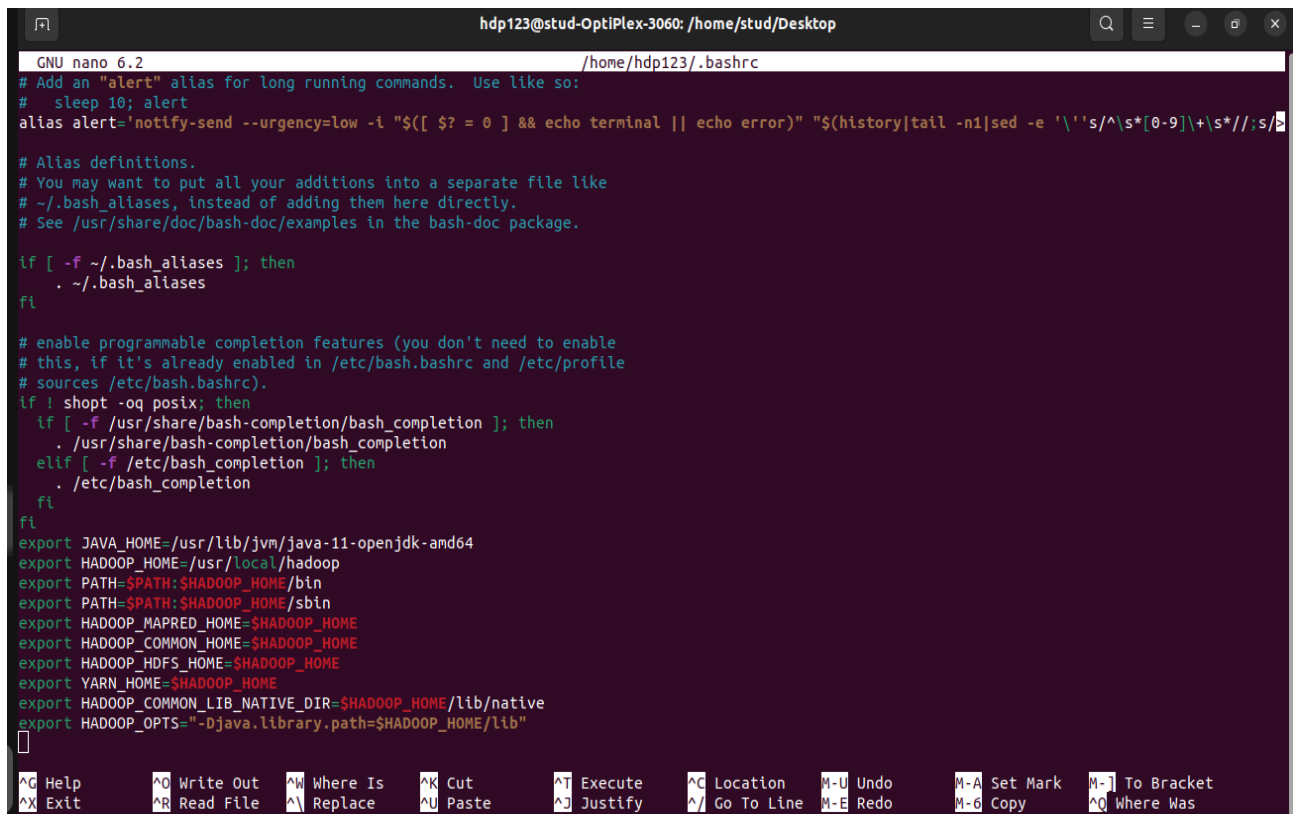
 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

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

Last login: Fri Apr 21 14:39:49 2023 from 127.0.0.1
hdp123@stud-OptiPlex-3060:~$ exit
logout
Connection to localhost closed.
hdp123@stud-OptiPlex-3060:~$ pwd
/home/hdp123
hdp123@stud-OptiPlex-3060:~$ cd /home/stud/Desktop
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ ls
hadoop-2.10.1.tar.gz
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$

hdp123@stud-OptiPlex-3060: /usr/local/hadoop/etc/hadoop
hadoop-2.10.1/share/hadoop/tools/sls/sample-conf/sls-runner.xml
hadoop-2.10.1/share/hadoop/tools/sls/sample-conf/yarn-site.xml
hadoop-2.10.1/share/hadoop/tools/sls/sample-data/
hadoop-2.10.1/share/hadoop/tools/sls/sample-data/2jobs2min-rumen-jh.json
hadoop-2.10.1/include/
hadoop-2.10.1/include/hdfs.h
hadoop-2.10.1/include/Pipes.hh
hadoop-2.10.1/include/TemplateFactory.hh
hadoop-2.10.1/include/StringUtils.hh
hadoop-2.10.1/include/SerialUtils.hh
hadoop-2.10.1/LICENSE.txt
hadoop-2.10.1/NOTICE.txt
hadoop-2.10.1/README.txt
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ ls
hadoop-2.10.1  hadoop-2.10.1.tar.gz
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ sudo mv hadoop-2.10.1 /usr/local/hadoop
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ ls
hadoop-2.10.1.tar.gz
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ sudo chown -R hadoop /usr/local
chown: invalid user: 'hadoop'
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ sudo chown -R hdp123 /usr/local
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ sudo nano ~/.bashrc
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ source ~/.bashrc
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ sudo nano /usr/local/hadoop/etc/hadoop/hadoop-env.sh
hdp123@stud-OptiPlex-3060:/home/stud/Desktop$ cd
hdp123@stud-OptiPlex-3060:~$ su hdp123
Password:
hdp123@stud-OptiPlex-3060:~$ cd /usr/local/hadoop/etc/hadoop
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ nano core-site.xml
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ nano yarn-site.xml
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ sudo cp /usr/local/hadoop/etc/hadoop/mapred-site.xml.template /usr/local/hadoop/etc/hadoop/mapred-site.xml
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ sudo nano mapred-site.xml
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ sudo mkdir -p /usr/local/hadoop_tmp
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ sudo mkdir -p /usr/local/hadoop_tmp/hdfs/namenode
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ sudo mkdir -p /usr/local/hadoop_tmp/hdfs/datanode
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ sudo chown -R hdp123 /usr/local/hadoop_tmp
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ hdfs namenode -format
```

## Configuration of .bashrc file:



```
GNU nano 6.2 /home/hdp123/.bashrc
# Add an "alert" alias for long running commands.  Use like so:
#   sleep 10; alert
alias alert='notify-send --urgency=low -i "${[ $? = 0 ]} && echo terminal || echo error)" "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/>

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

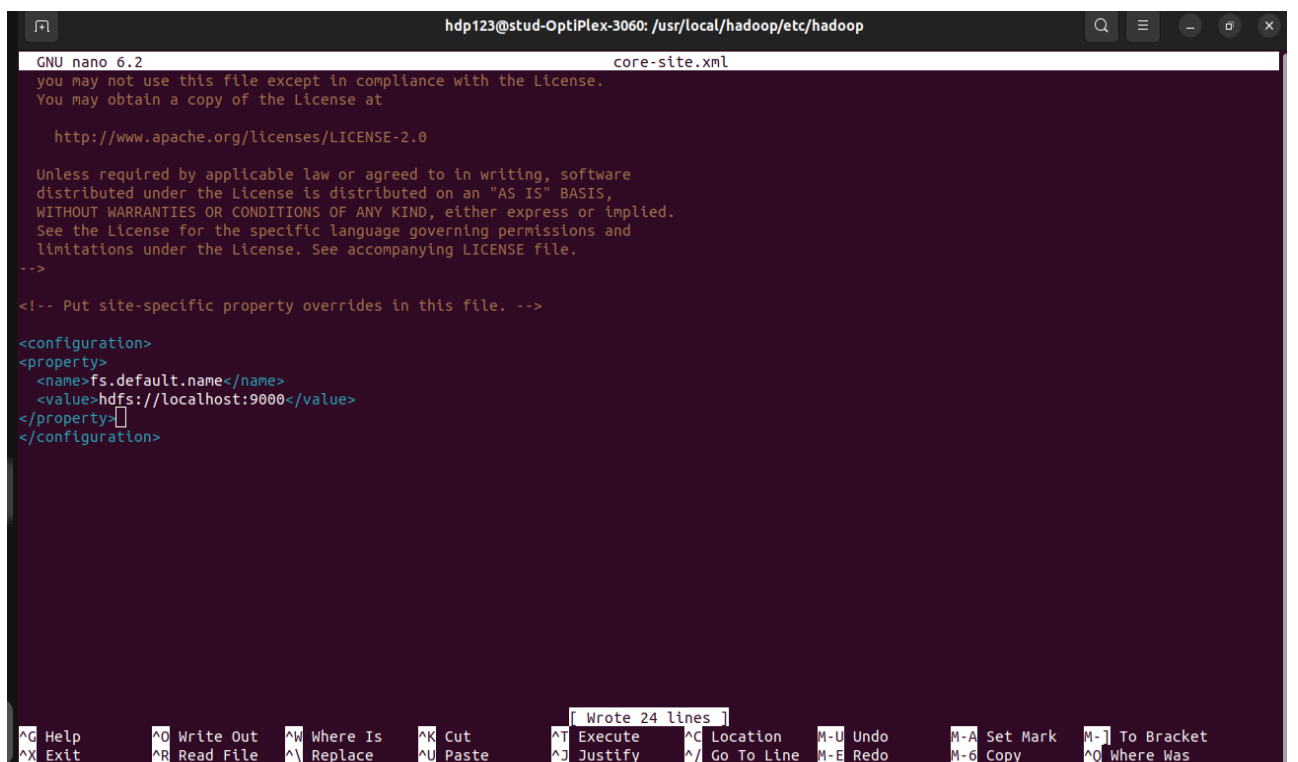
if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
export HADOOP_HOME=/usr/local/hadoop
export PATH=$PATH:$HADOOP_HOME/bin
export PATH=$PATH:$HADOOP_HOME/sbin
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export YARN_HOME=$HADOOP_HOME
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_HOME/lib"

[ Write 24 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  M-U Undo     M-A Set Mark M-] To Bracket
^X Exit      ^R Read File ^L Replace   ^U Paste     ^J Justify   ^_ Go To Line M-E Redo     M-6 Copy     ^Q Where Was
```

## Configuration of core-site.xml:



```
GNU nano 6.2 core-site.xml
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

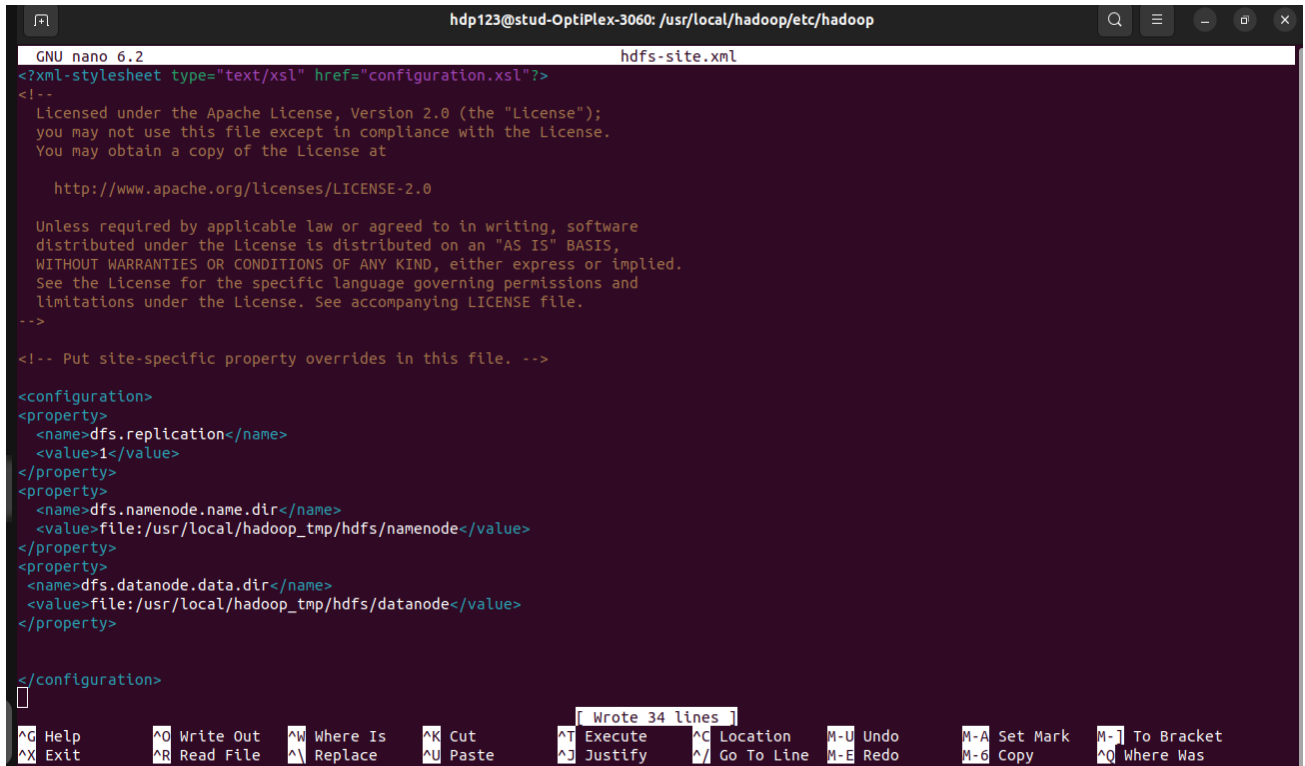
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License. See accompanying LICENSE file.
-->

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

<configuration>
<property>
  <name>fs.default.name</name>
  <value>hdfs://localhost:9000</value>
</property>
</configuration>

[ Wrote 24 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  M-U Undo     M-A Set Mark M-] To Bracket
^X Exit      ^R Read File ^L Replace   ^U Paste     ^J Justify   ^_ Go To Line M-E Redo     M-6 Copy     ^Q Where Was
```

## Configuration of hdfs-site.xml:



```
GNU nano 6.2 hdfs-site.xml
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

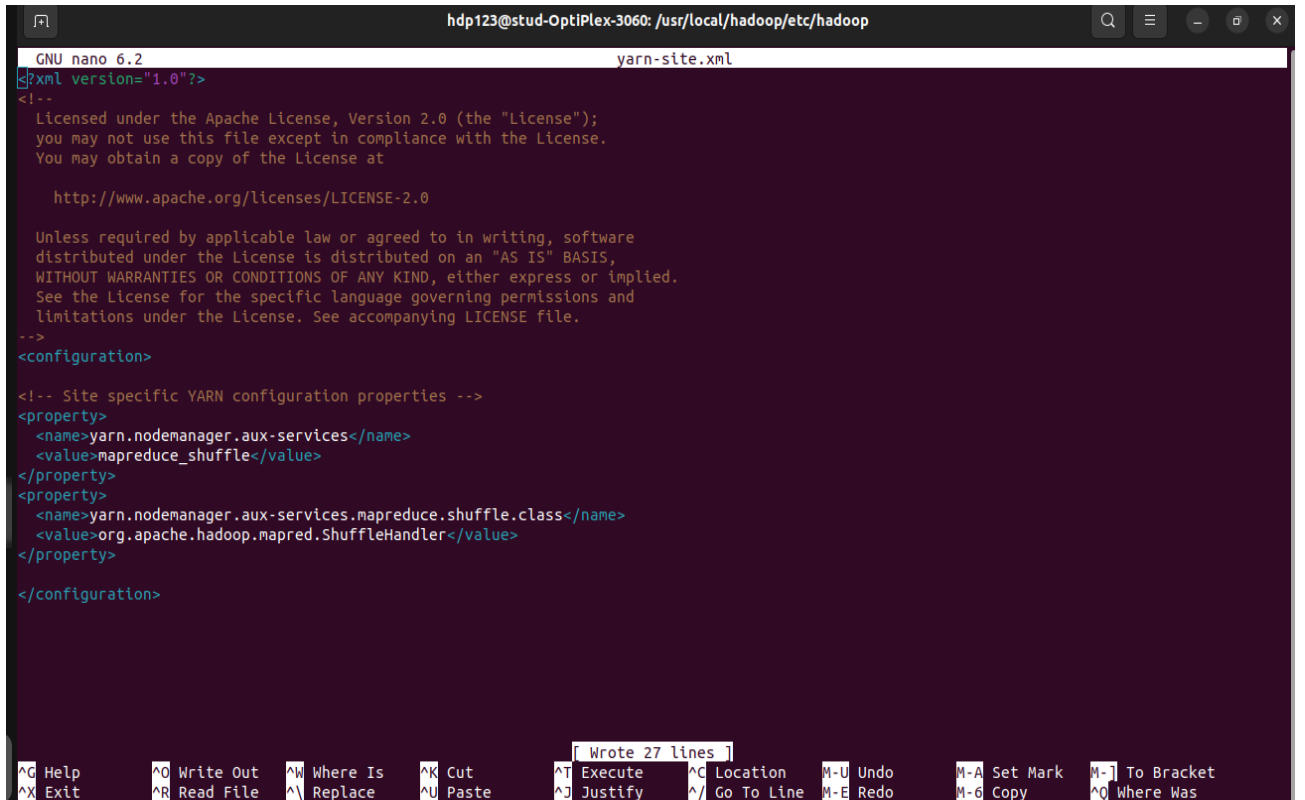
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
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.replication</name>
  <value>1</value>
</property>
<property>
  <name>dfs.namenode.name.dir</name>
  <value>file:/usr/local/hadoop_tmp/hdfs/namenode</value>
</property>
<property>
  <name>dfs.datanode.data.dir</name>
  <value>file:/usr/local/hadoop_tmp/hdfs/datanode</value>
</property>
</configuration>
```

## Configuration of yarn-site.xml:



```
GNU nano 6.2 yarn-site.xml
<?xml version="1.0"?>
<!--
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
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.
-->
<configuration>

<!-- Site specific YARN configuration properties -->
<property>
  <name>yarn.nodemanager.aux-services</name>
  <value>mapreduce_shuffle</value>
</property>
<property>
  <name>yarn.nodemanager.aux-services.mapreduce.shuffle.class</name>
  <value>org.apache.hadoop.mapred.ShuffleHandler</value>
</property>
</configuration>
```

## Configuration of mapred-site.xml:

```
hdp123@stud-OptiPlex-3060: /usr/local/hadoop/etc/hadoop
GNU nano 6.2 mapred-site.xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  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>mapreduce.framework.name</name>
  <value>yarn</value>
</property>
</configuration>

Wrote 25 lines
Help Write Out Where Is Cut Execute Location Undo Set Mark To Bracket
Exit Read File Replace Paste Justify Go To Line Redo Redo Copy Where Was
```

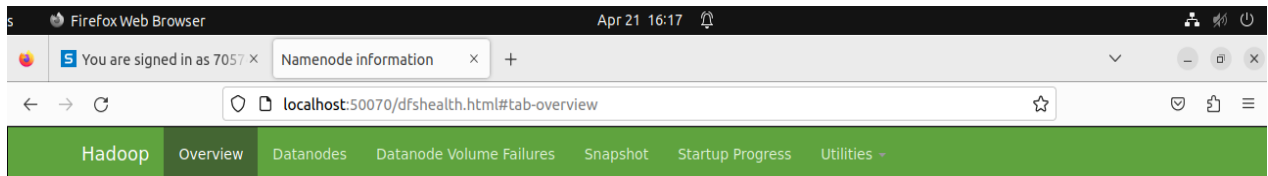
## Starting the services of Hadoop:

```
hdp123@stud-OptiPlex-3060: /usr/local/hadoop/etc/hadoop
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ start-dfs.sh
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/21 15:22:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hdp123-namenode-stud-OptiPlex-3060.out
localhost: WARNING: An illegal reflective access operation has occurred
localhost: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/had
oop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
localhost: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
localhost: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
localhost: WARNING: All illegal access operations will be denied in a future release
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hdp123-datanode-stud-OptiPlex-3060.out
localhost: WARNING: An illegal reflective access operation has occurred
localhost: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/had
oop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
localhost: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
localhost: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
localhost: WARNING: All illegal access operations will be denied in a future release
Starting secondary namenodes [0.0.0.0]
The authenticity of host '0.0.0.0 (0.0.0.0)' can't be established.
ED25519 key fingerprint is SHA256:R4QvY3siYZAUsewbujjfx0ByBNrFslfgjI/iEAs7Vis.
This host key is known by the following other names/addresses:
~/.ssh/known_hosts:1: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
0.0.0.0: Warning: Permanently added '0.0.0.0' (ED25519) to the list of known hosts.
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-hdp123-secondarynamenode-stud-OptiPlex-3060.out
0.0.0.0: WARNING: An illegal reflective access operation has occurred
0.0.0.0: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoo
p/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
0.0.0.0: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
0.0.0.0: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
0.0.0.0: WARNING: All illegal access operations will be denied in a future release
```



```
hdp123@stud-OptiPlex-3060: /usr/local/hadoop/etc/hadoop
0.0.0.0: WARNING: An illegal reflective access operation has occurred
0.0.0.0: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop
p/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
0.0.0.0: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
0.0.0.0: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
0.0.0.0: WARNING: All illegal access operations will be denied in a future release
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/21 15:22:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hdp123-resourcemanager-stud-OptiPlex-3060.out
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hdp123-nodemanager-stud-OptiPlex-3060.out
localhost: WARNING: An illegal reflective access operation has occurred
localhost: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/had
oop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
localhost: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
localhost: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
localhost: WARNING: All illegal access operations will be denied in a future release
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$ jps
9104 DataNode
8883 NameNode
9300 SecondaryNameNode
9559 ResourceManager
10012 Jps
9695 NodeManager
hdp123@stud-OptiPlex-3060:/usr/local/hadoop/etc/hadoop$
```

## Hadoop GUI:



### Overview 'localhost:9000' (active)

Started:	Fri Apr 21 16:16:27 +0530 2023
Version:	2.10.1, r1827467c9a56f133025f28557bfc2c562d78e816
Compiled:	Mon Sep 14 18:47:00 +0530 2020 by centos from branch-2.10.1
Cluster ID:	CID-00010b53-0fd6-43ab-8648-08a28682d163
Block Pool ID:	BP-1300972339-127.0.1.1-1682073977023

### Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks = 1 total filesystem object(s).

Heap Memory used 67.14 MB of 162 MB Heap Memory. Max Heap Memory is 1000 MB.

Non Heap Memory used 44.22 MB of 47.73 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Firefox Web Browser

Apr 21 16:18

You are signed in as 7057 x

Namenode information x

localhost:50070/dfshealth.html#tab-overview

Heap Memory used 67.14 MB of 162 MB Heap Memory. Max Heap Memory is 1000 MB.

Non Heap Memory used 44.22 MB of 47.73 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Configured Capacity:	457.37 GB
DFS Used:	24 KB (0%)
Non DFS Used:	16.35 GB
DFS Remaining:	417.72 GB (91.33%)
Block Pool Used:	24 KB (0%)
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	1 (Decommissioned: 0, In Maintenance: 0)
Dead Nodes	0 (Decommissioned: 0, In Maintenance: 0)
Decommissioning Nodes	0
Entering Maintenance Nodes	0
Total Datanode Volume Failures	0 (0 B)
Number of Under-Replicated Blocks	0
Number of Blocks Pending Deletion	0
Block Deletion Start Time	Fri Apr 21 16:16:27 +0530 2023
Last Checkpoint Time	Fri Apr 21 16:16:17 +0530 2023

Firefox Web Browser

Apr 21 16:18

You are signed in as 7057 x

Namenode information x

localhost:50070/dfshealth.html#tab-overview

## NameNode Journal Status

Current transaction ID: 3

Journal Manager	State
FileJournalManager(root=/usr/local/hadoop_tmp/hdfs/namenode)	EditLogFileOutputStream(/usr/local/hadoop_tmp/hdfs/namenode/current/edits_inprogress_0000000000000000003)

## NameNode Storage

Storage Directory	Type	State
/usr/local/hadoop_tmp/hdfs/namenode	IMAGE_AND_EDITS	Active

## DFS Storage Types

Storage Type	Configured Capacity	Capacity Used	Capacity Remaining	Block Pool Used	Nodes In Service
DISK	457.37 GB	24 KB (0%)	417.72 GB (91.33%)	24 KB	1