

## New Virtual Machine Wizard

VMWARE®  
WORKSTATION  
PRO

12

### Welcome to the New Virtual Machine Wizard

What type of configuration do you want?

- ☒ Typical (recommended)  
Create a Workstation 12.0 virtual machine in a few easy steps.
- ☐ Custom (advanced)  
Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.

Help

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Cancel

## New Virtual Machine Wizard

### Guest Operating System Installation

A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

☐ Installer disc:

No drives available

☒ Installer disc image file (iso):

C:\Users\balaj\Downloads\CentOS-7-x86\_64-Minimal-1

Browse...

 CentOS 64-bit detected.

☐ I will install the operating system later.

The virtual machine will be created with a blank hard disk.

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## New Virtual Machine Wizard



### Name the Virtual Machine

What name would you like to use for this virtual machine?

Virtual machine name:

CentOS 64-bit (3)

Location:

C:\Users\balaj\OneDrive\Documents\Virtual Machines\CentOS 64-

Browse...

The default location can be changed at Edit > Preferences.

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Cancel

## New Virtual Machine Wizard



### Ready to Create Virtual Machine

Click Finish to create the virtual machine and start installing CentOS 64-bit.

The virtual machine will be created with the following settings:

Name:	balaji_solunke
Location:	C:\Users\balaj\OneDrive\Documents\Virtual Machines\bala...
Version:	Workstation 12.0
Operating System:	CentOS 64-bit
Hard Disk:	20 GB, Split
Memory:	1024 MB
Network Adapter:	NAT
Other Devices:	CD/DVD, USB Controller, Printer, Sound Card

Customize Hardware...

☒ Power on this virtual machine after creation

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Finish

Cancel

```
CentOS Linux 7 (Core)
Kernel 3.10.0-957.el7.x86_64 on an x86_64

localhost login: root
Password:
[root@localhost ~]#

[root@localhost ~]# nmcli
[root@localhost ~]# nmcli conn show
NAME      UUID                                  TYPE      DEVICE
ens33     4d93fca5-0881-4e46-b361-5e2899a3f2b5 ethernet --
[root@localhost ~]# nmcli conn up ens33
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/1)
[root@localhost ~]# nmcli conn show
NAME      UUID                                  TYPE      DEVICE
ens33     4d93fca5-0881-4e46-b361-5e2899a3f2b5 ethernet ens33
[root@localhost ~]# ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:5b:26:de brd ff:ff:ff:ff:ff:ff
    inet 192.168.120.132/24 brd 192.168.120.255 scope global noprefixroute dynamic ens33
        valid_lft 1754sec preferred_lft 1754sec
    inet6 fe80::1b91:c3aa:aee4:8c1/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@localhost ~]# _
```

```
[root@localhost ~]# ls
anaconda-ks.cfg  jdk1.8.0_161  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# mv jdk1.8.0_161 java
[root@localhost ~]# ls
anaconda-ks.cfg  java  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# mv java /usr/local/_
```

```
[root@localhost ~]# ls
anaconda-ks.cfg  jdk1.8.0_161  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# mv jdk1.8.0_161 java
[root@localhost ~]# ls
anaconda-ks.cfg  java  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# mv java /usr/local/
[root@localhost ~]# cd /usr/local
[root@localhost local]# ls
bin  etc  games  include  java  lib  lib64  libexec  sbin  share  src
[root@localhost local]# _
```

```
[root@localhost local]# cd ~
[root@localhost ~]# vi /etc/profile_
```

```
MAIL="/var/spool/mail/$USER"
fi

# Path manipulation
if [ "$SEUID" = "0" ]; then
    pathmunge /usr/sbin
    pathmunge /usr/local/sbin
else
    pathmunge /usr/local/sbin after
    pathmunge /usr/sbin after
fi

HOSTNAME=`/usr/bin/hostname 2>/dev/null`
HISTSIZE=1000
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL

# By default, we want umask to get set. This sets it for login shell
# Current threshold for system reserved uid/gids is 200
# You could check uidgid reservation validity in
# /usr/share/doc/setup-*/uidgid file
```

```

MAIL="/var/spool/mail/$USER"
fi

# Path manipulation
if [ "$EUID" = "0" ]; then
    pathmunge /usr/sbin
    pathmunge /usr/local/sbin
else
    pathmunge /usr/local/sbin after
    pathmunge /usr/sbin after
fi

HOSTNAME=`/usr/bin/hostname 2>/dev/null`
HISTSIZE=1000
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL

# By default, we want umask to get set. This sets it for login shell
# Current threshold for system reserved uid/gids is 200
# You could check uidgid reservation validity in
# /usr/share/doc/setup-*/uidgid file
if [ $UID -gt 199 ] && [ "`/usr/bin/id -gn`" = "`/usr/bin/id -un`" ]; then
    umask 002
else
    umask 022
fi

for i in /etc/profile.d/*.sh /etc/profile.d/sh.local ; do
    if [ -r "$i" ]; then
        if [ "${-#*i}" != "$-" ]; then
            . "$i"
        else
            . "$i" >/dev/null
        fi
    fi
done

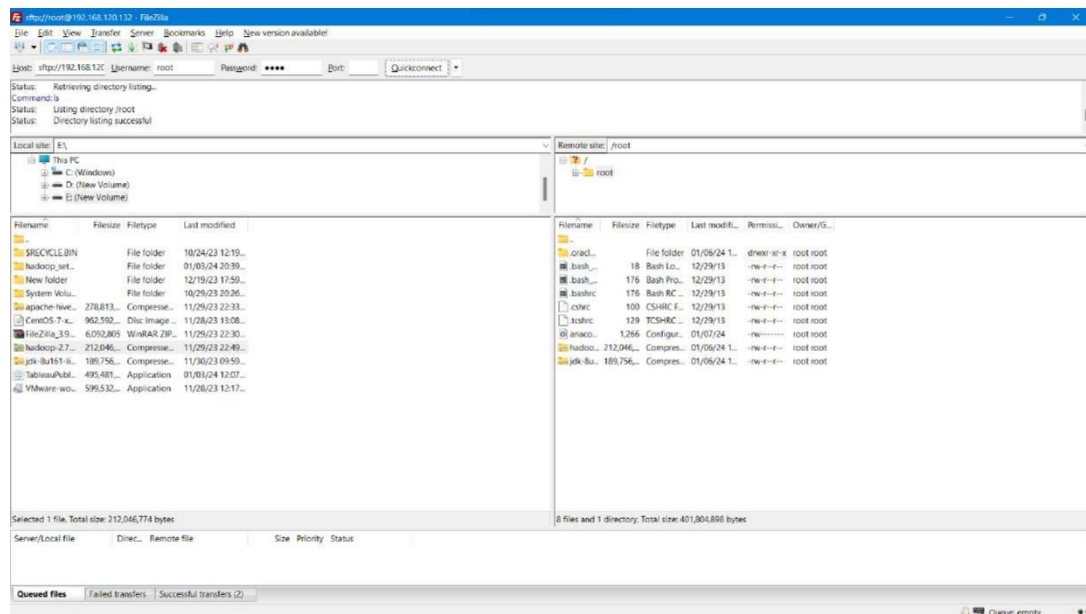
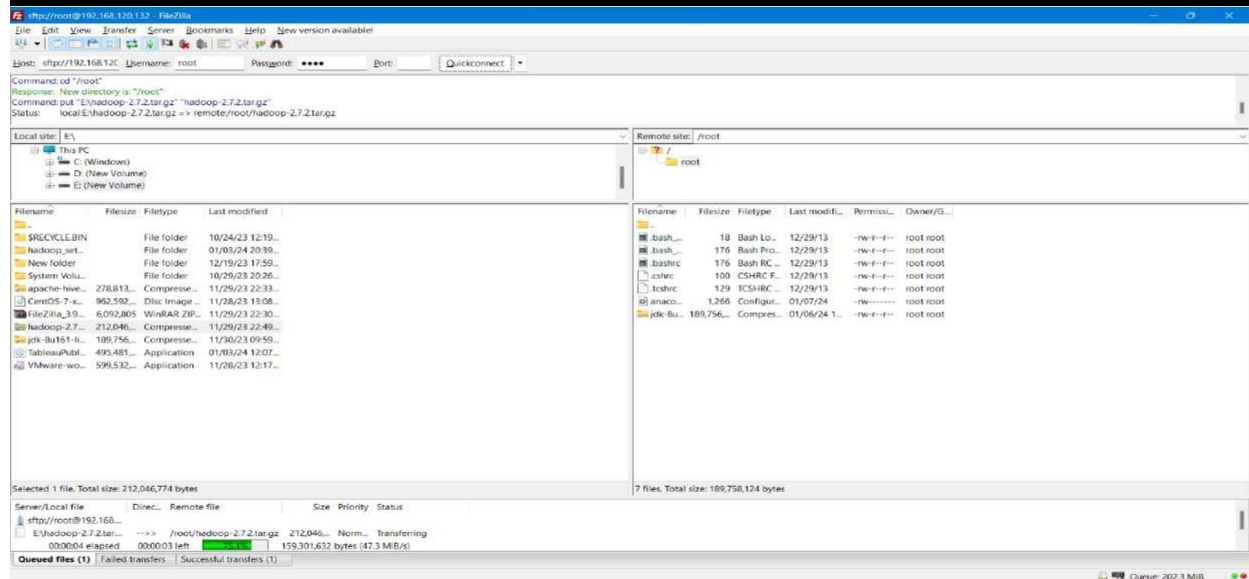
unset i
unset -f pathmunge
export JAVA_HOME=/usr/local/java/
export PATH=$PATH:/usr/local/java/bin
"/etc/profile" 78L, 1891C written
[root@localhost ~]#

```

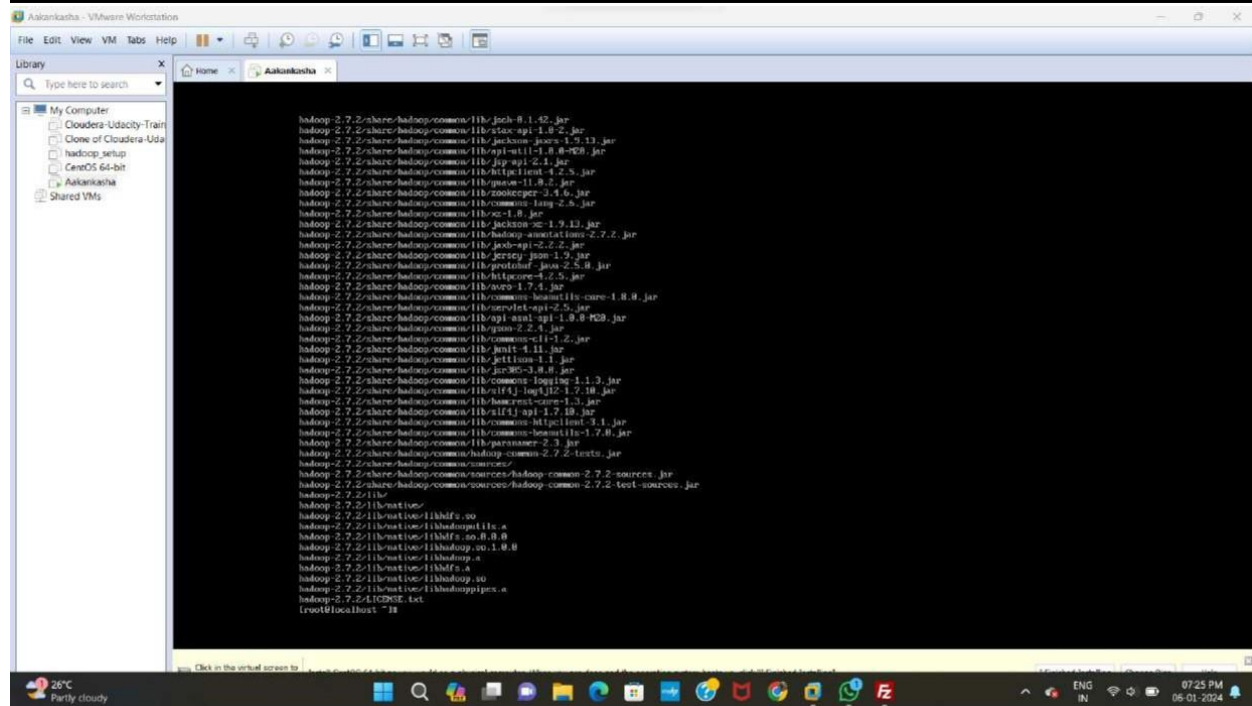
```

[root@localhost ~]# source/etc/profile
bash: source/etc/profile: No such file or directory
[root@localhost ~]# source /etc/profile
[root@localhost ~]# jps
7541 Jps
[root@localhost ~]# java -version
java version "1.8.0_161"
Java(TM) SE Runtime Environment (build 1.8.0_161-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.161-b12, mixed mode)
[root@localhost ~]# _

```

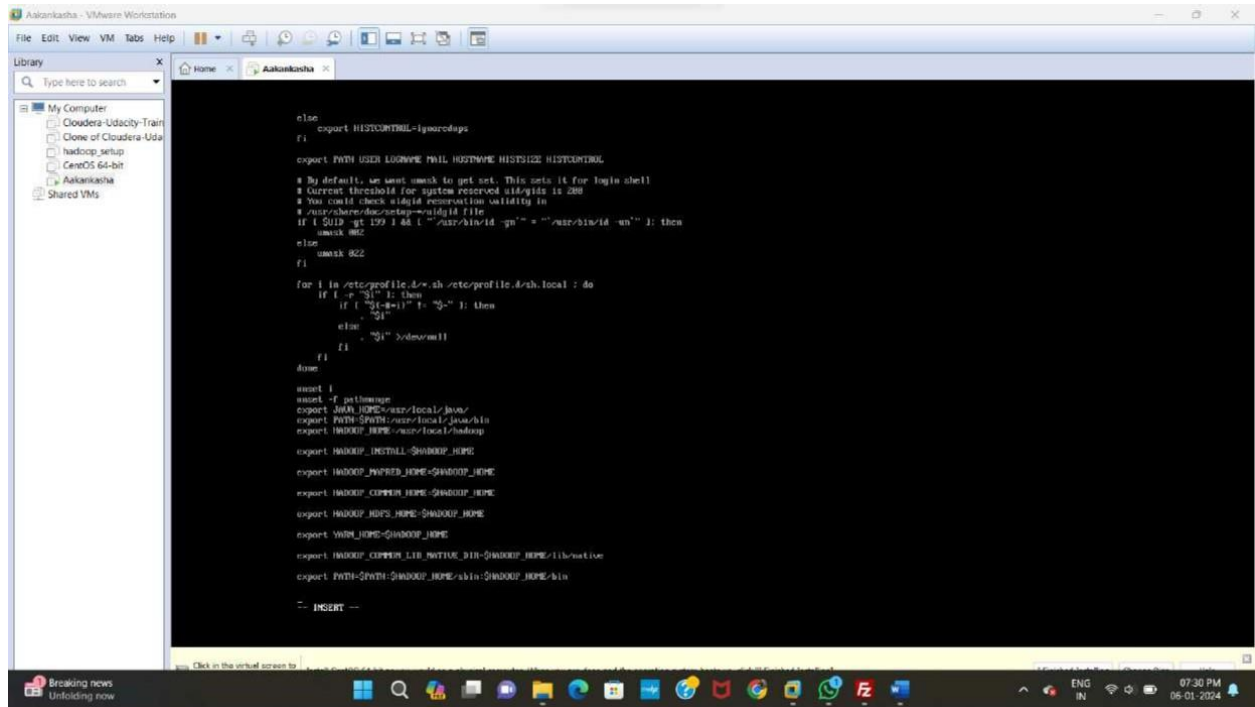


```
[root@localhost ~]# ls
anaconda-ks.cfg  hadoop-2.7.2.tar.gz  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# tar -xvf hadoop-2.7.2.tar.gz
```



```
[root@localhost ~]# ls
anaconda-ks.cfg  hadoop-2.7.2  hadoop-2.7.2.tar.gz  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# mv hadoop-2.7.2 hadoop
[root@localhost ~]# ls
anaconda-ks.cfg  hadoop  hadoop-2.7.2.tar.gz  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# mv hadoop /usr/local/
[root@localhost ~]# ls
anaconda-ks.cfg  hadoop-2.7.2.tar.gz  jdk-8u161-linux-x64.tar.gz
[root@localhost ~]# _
```





```

[root@localhost ~]# cd /usr/local/hadoop/etc/hadoop
[root@localhost hadoop]# ls
capacity-scheduler.xml  hadoop-env.sh          https-env.sh          kms-env.sh            mapred-env.sh          ssl-se
configuration.xml      hadoop-metrics2.properties  https-log4j.properties  kms-log4j.properties  mapred-queues.xml.template  yarn-e
container-executor.cfg  hadoop-metrics.properties  https-signature.secret  kms-site.xml          mapred-site.xml.template  yarn-e
core-site.xml           hadoop-policy.xml        https-site.xml         log4j.properties      slaves                  yarn-s
hadoop-env.cmd          hdfs-site.xml            kms-acls.xml           mapred-env.cmd        ssl-client.xml.example
[root@localhost hadoop]# vi hadoop-env.sh _

```

```

[root@localhost hadoop]# ls
capacity-scheduler.xml  hadoop-env.sh          https-env.sh          kms-env.sh            mapred-env.
configuration.xml      hadoop-metrics2.properties  https-log4j.properties  kms-log4j.properties  mapred-queu
container-executor.cfg  hadoop-metrics.properties  https-signature.secret  kms-site.xml          mapred-site
core-site.xml           hadoop-policy.xml        https-site.xml         log4j.properties      slaves
hadoop-env.cmd          hdfs-site.xml            kms-acls.xml           mapred-env.cmd        ssl-client.
[root@localhost hadoop]# vi core-site.xml _

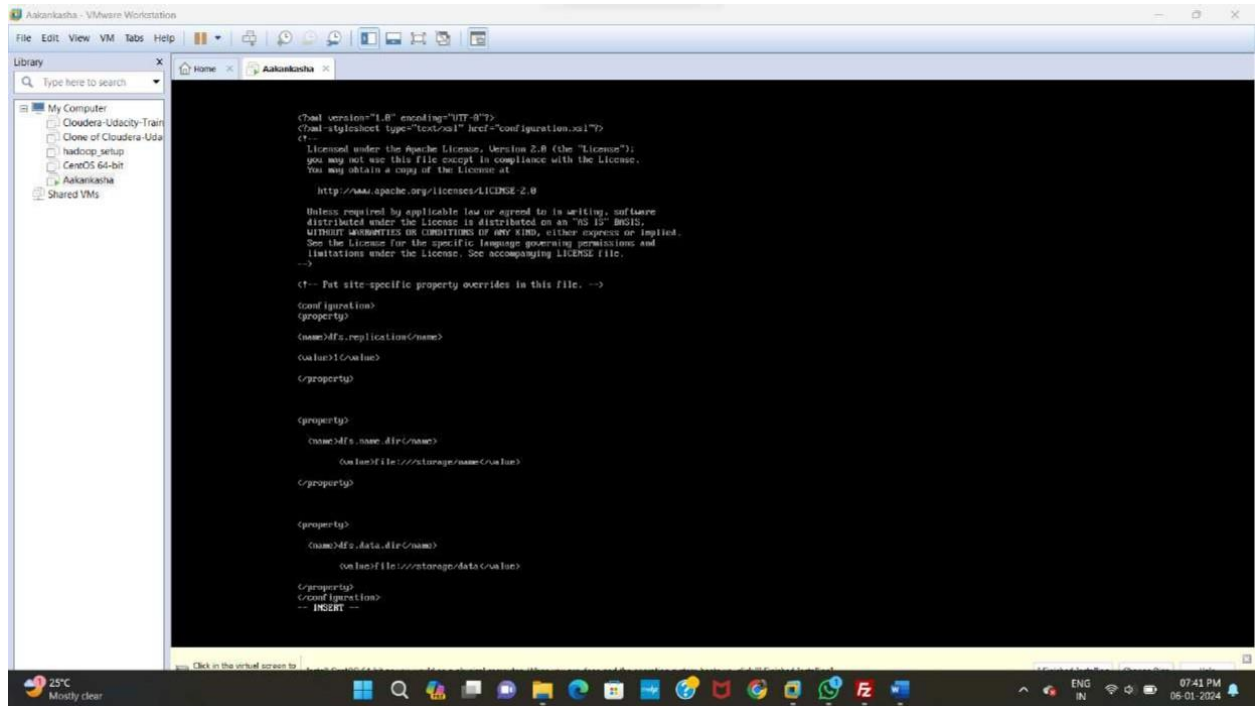
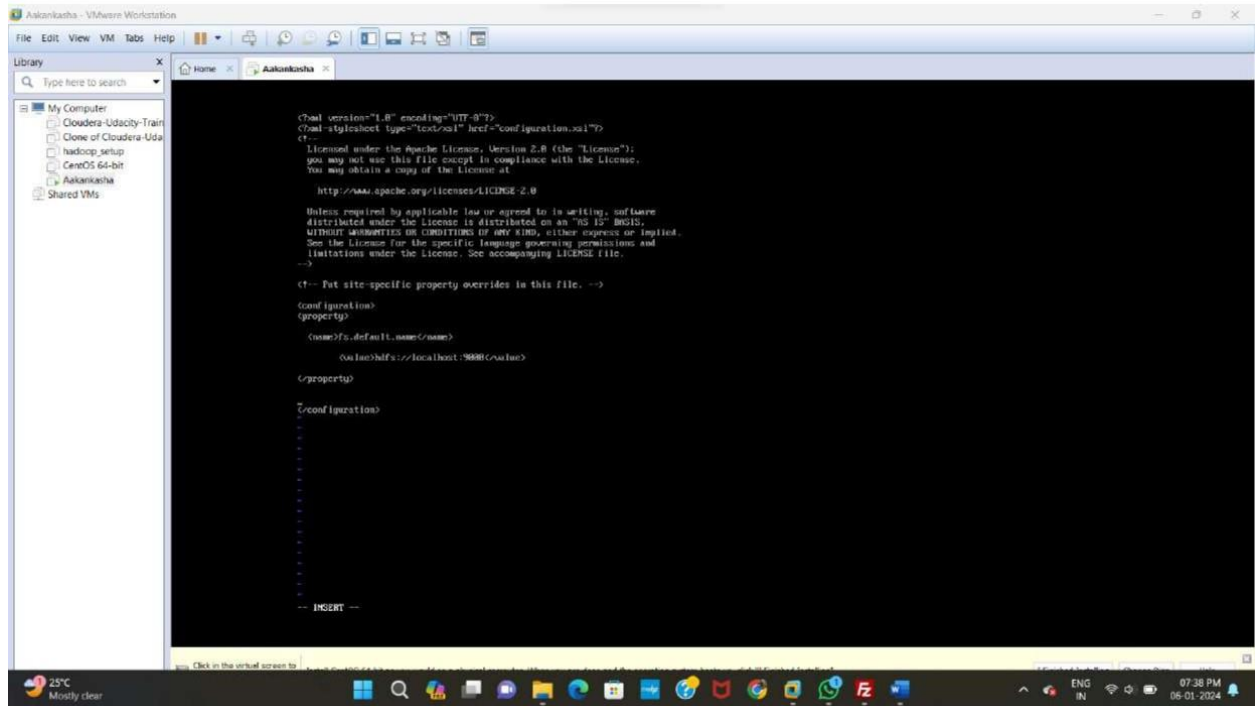
```

```

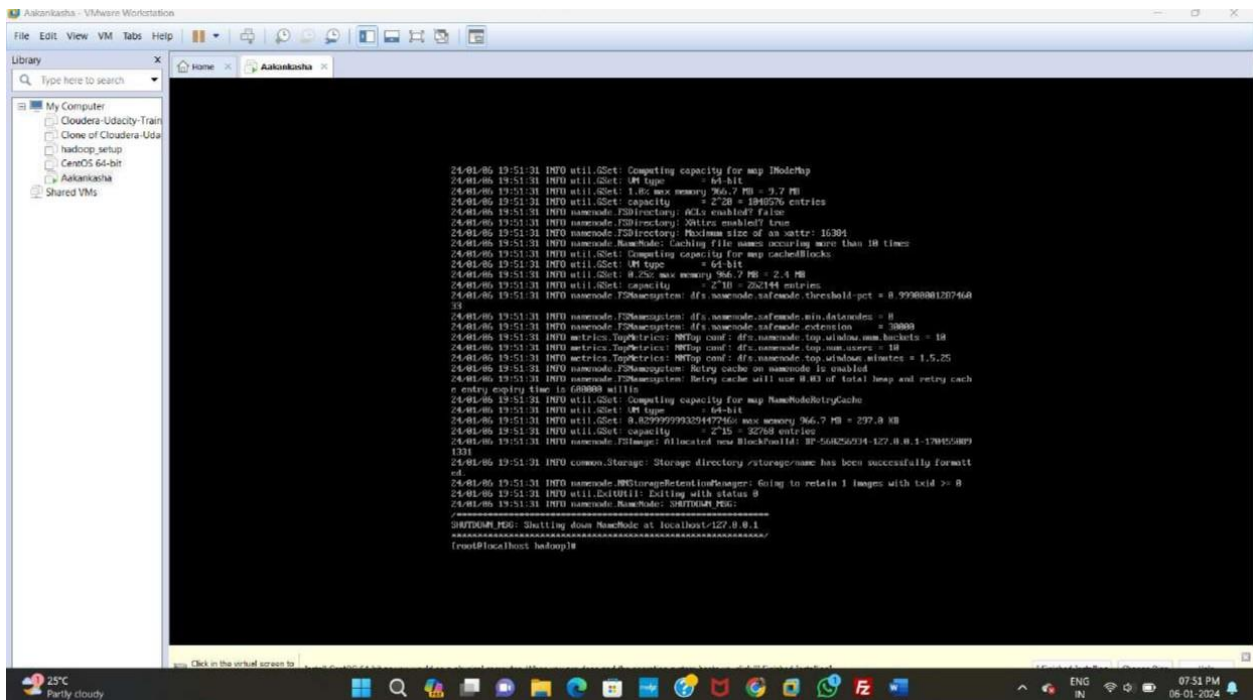
[root@localhost hadoop]# ls
capacity-scheduler.xml  hadoop-env.sh          https-env.sh          kms-env.sh            mapred-env.sh          ssl-server.xml.example
configuration.xml      hadoop-metrics2.properties  https-log4j.properties  kms-log4j.properties  mapred-queues.xml.template  yarn-env.cmd
container-executor.cfg  hadoop-metrics.properties  https-signature.secret  kms-site.xml          mapred-site.xml.template  yarn-env.sh
core-site.xml           hadoop-policy.xml        https-site.xml         log4j.properties      slaves                  yarn-site.xml
hadoop-env.cmd          hdfs-site.xml            kms-acls.xml           mapred-env.cmd        ssl-client.xml.example
[root@localhost hadoop]# vi core-site.xml _

```









```
[root@localhost hadoop]# cd /usr/local/hadoop
[root@localhost hadoop]# sh start-dfs.sh
24/01/06 19:53:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
... using builtin-java classes where applicable
Starting namenodes on [localhost]
The authenticity of host 'localhost (::1)' can't be established.
ECDSA key fingerprint is SHA256:B6fMxjeNGggNr+rxEv0k8sXA10pJnon5dE+SMnoJIDE.
ECDSA key fingerprint is MD5:95:47:66:6c:47:58:9f:e8:1b:27:ce:0e:28:c2:f8:fc.
Are you sure you want to continue connecting (yes/no)? yes
localhost: Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.
root@localhost's password:
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-root-namenode-localhost.local
domain.out
root@localhost's password:
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-root-datanode-localhost.local
domain.out
Starting secondary namenodes [0.0.0.0]
The authenticity of host '0.0.0.0 (0.0.0.0)' can't be established.
ECDSA key fingerprint is SHA256:B6fMxjeNGggNr+rxEv0k8sXA10pJnon5dE+SMnoJIDE.
ECDSA key fingerprint is MD5:95:47:66:6c:47:58:9f:e8:1b:27:ce:0e:28:c2:f8:fc.
Are you sure you want to continue connecting (yes/no)? yes
0.0.0.0: Warning: Permanently added '0.0.0.0' (ECDSA) to the list of known hosts.
root@0.0.0.0's password:
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-root-secondarynamenode-
localhost.localdomain.out
24/01/06 19:54:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
... using builtin-java classes where applicable
[root@localhost hadoop]# _
```

```
[root@localhost hadoop]# jps
7873 Jps
7763 SecondaryNameNode
7495 NameNode
7612 DataNode
[root@localhost hadoop]#
```

```
[root@localhost hadoop]# jps
7873 Jps
7763 SecondaryNameNode
7495 NameNode
7612 DataNode
[root@localhost hadoop]# sh start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-root-resourcemanager-localhost.localdomain.out
root@localhost's password:
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-root-nodemanager-localhost.localdomain.out
[root@localhost hadoop]# jps
7763 SecondaryNameNode
7923 ResourceManager
8197 NodeManager
7495 NameNode
8298 Jps
7612 DataNode
[root@localhost hadoop]#
```

```
[root@localhost hadoop]# sudo systemctl stop firewalld
-bash: sudo systemctl: command not found
[root@localhost hadoop]# sudo systemctl stop firewalld
[root@localhost hadoop]# sudo systemctl disable firewalld
Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
[root@localhost hadoop]# _
```



```

    inet 192.168.128.132/24 brd 192.168.128.255 scope global noprefixroute dynamic ens33
        valid_lft 1792sec preferred_lft 1792sec
    inet6 fe80::1b91:c3aa:ae4:8c1/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@master ~]# sudo systemctl status firewalld
■ firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled; vendor preset: enabled)
   Active: inactive (dead)
     Docs: man:firewalld(1)
[root@master ~]# jps
7163 Jps
[root@master ~]# start-all.sh
This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh
24/01/06 21:41:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
... using builtin-java classes where applicable
Starting namenodes on [localhost]
root@localhost's password:
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-root-namenode-master.out
root@localhost's password:
localhost: datanode running as process 7331. Stop it first.
Starting secondary namenodes [0.0.0.0]
root@0.0.0.0's password:
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-root-secondarynamenode-
master.out
24/01/06 21:41:33 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
... using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-root-resourcemanager-master.out
root@localhost's password:
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-root-nodemanager-master.out
[root@master ~]# jps
7652 ResourceManager
8054 Jps
7289 NameNode
7932 NodeManager
7501 SecondaryNameNode
[root@master ~]#

```

```

[root@master ~]# ls
bin  dev  home  lib64  mnt  proc  run  srv  sys  tmp  var
boot  etc  lib  media  opt  root  sbin  storage  test_data.csv  usr
[root@master ~]# hdfs dfs -put t
test_data.csv tmp/
[root@master ~]# hdfs dfs -put test_data.csv /sample/
24/01/06 21:54:39 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
... using builtin-java classes where applicable
[root@master ~]# cd /storage/
[root@master storage]# ls
data  name
[root@master storage]# cd data/
[root@master data]# ls
current  in_use.lock
[root@master data]# cd current/
[root@master current]# ls
BP-560256934-127.0.0.1-1704550891331  VERSION
[root@master current]# _

```



NameNode is still loading. Redirecting to the Startup Progress page.

## Startup Progress

Elapsed Time: 0 sec, Percent Complete: 0%

Phase	Completion	Elapsed Time
Loading fsimage	0%	0 sec
Loading edits	0%	0 sec
Saving checkpoint	0%	0 sec
Safe mode	0%	0 sec

Hadoop, 2015.

## Browse Directory

Go!

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
drwxr-xr-x	root	supergroup	0 B	1/6/2024, 9:54:42 PM	0	0 B	<a href="#">sample</a>

Hadoop, 2015.

The screenshot shows a web browser window with two tabs: 'All Applications' and 'Browsing HDFS'. The active tab is 'Browsing HDFS', and the address bar shows the URL 'master:50070/explorer.html#/sample'. The page has a green header bar with the word 'Hadoop' on the left and a navigation menu on the right containing 'Overview', 'Datanodes', 'Snapshot', 'Startup Progress', and 'Utilities'.

[Browse Directory](#)

/sample	Go!
---------	-----

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	root	supergroup	5.29 MB	1/6/2024, 9:54:42 PM	1	128 MB	test_data.csv

Hadoop, 2015.