WIPRO NGA Program – Datacenter Batch5

Capstone Project Presentation – 06 April 2024

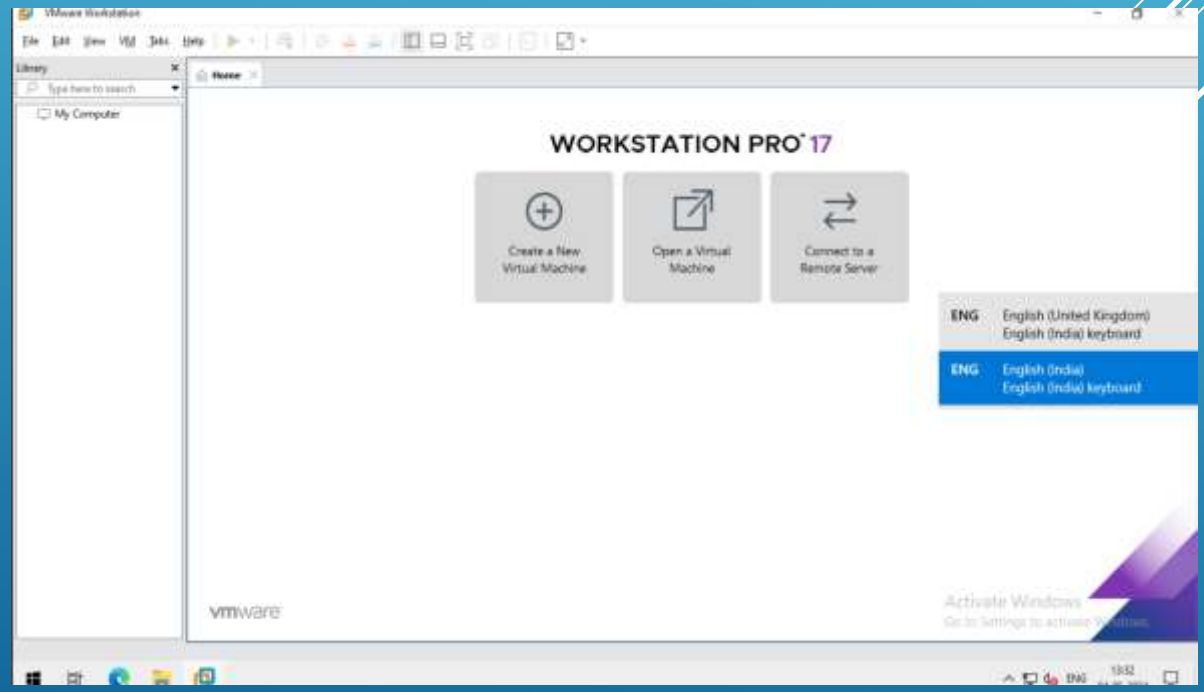
Project Title Here – Installation of centOS-7 & managing user & group & configure Filepermission

Presented by - Kishor Chandra Sahoo

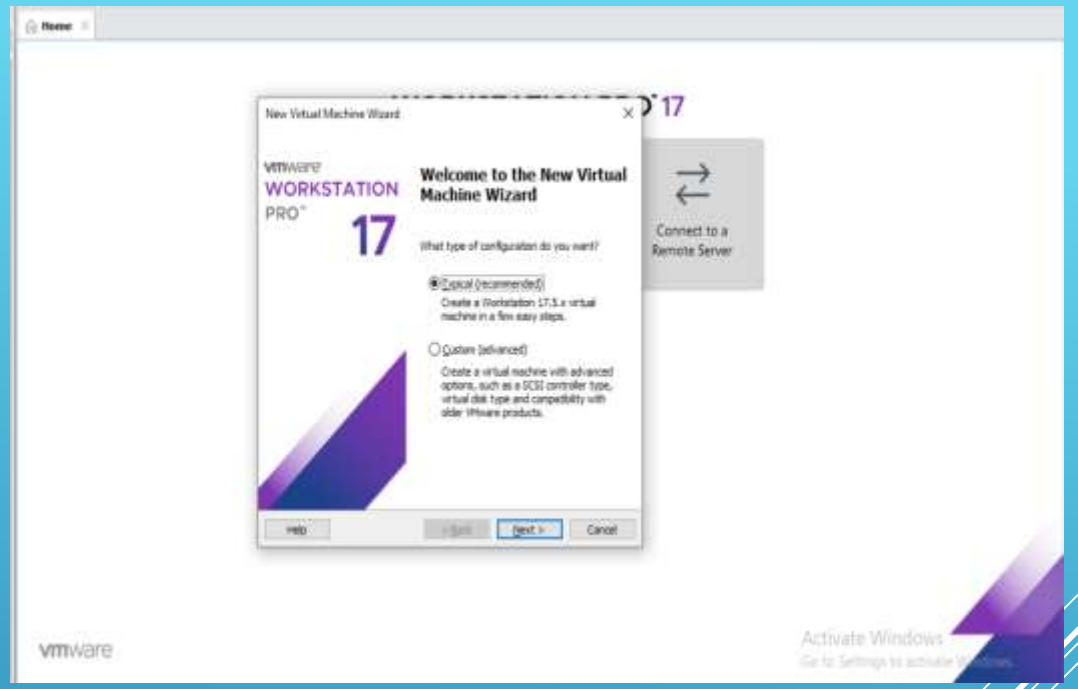
Slide Title

- Here is the first page of cloud Environment.

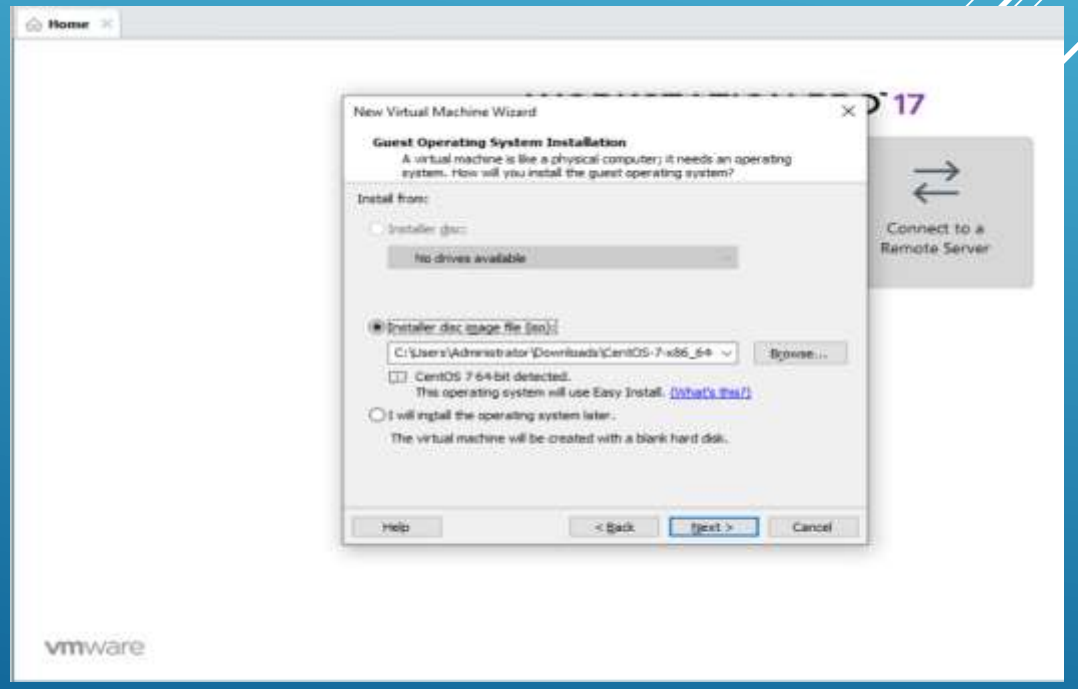
- Here is the first step of installation and open view of vmware.



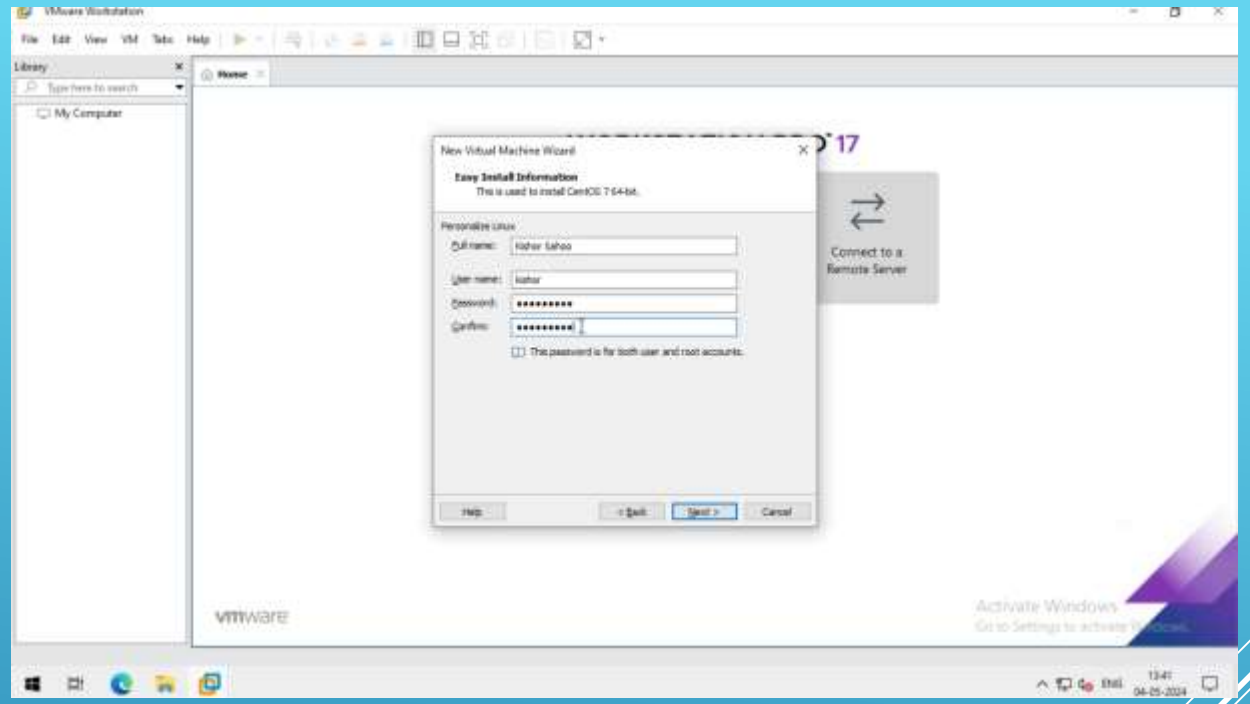
- After clicking Create a new virtual machine ,Then we have this interface.
- In this step choose typical.



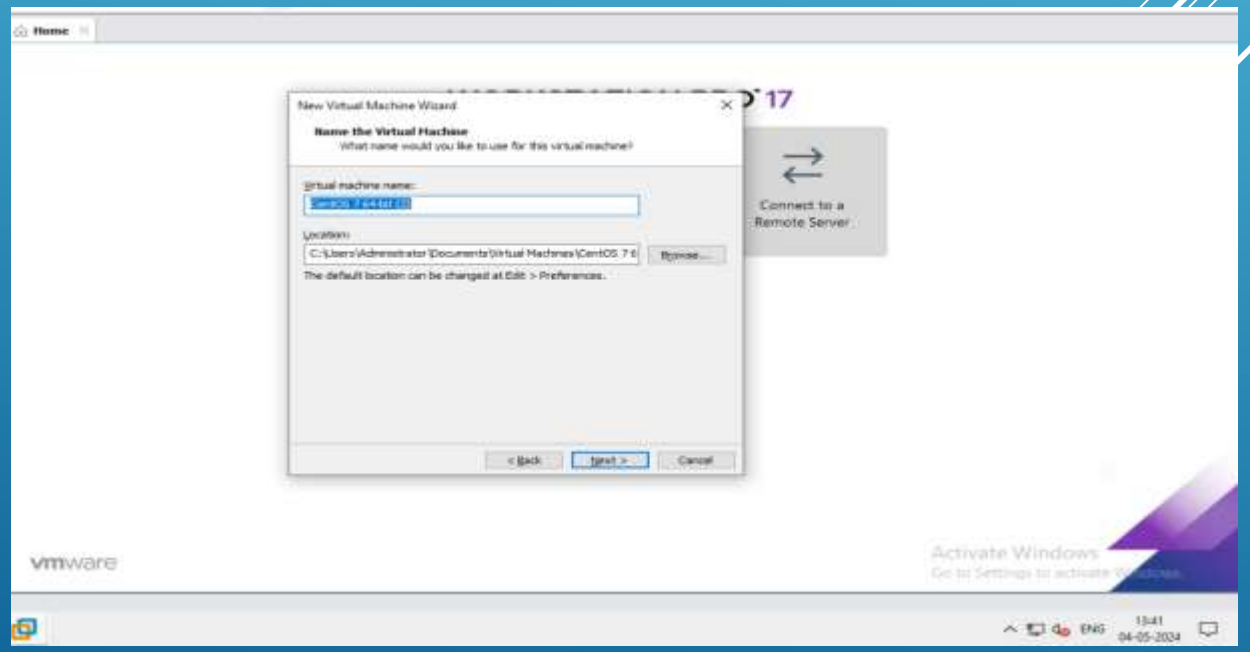
- After Clicking Typical this is the next step , In here we browse CentOS7 -7 Click Next.



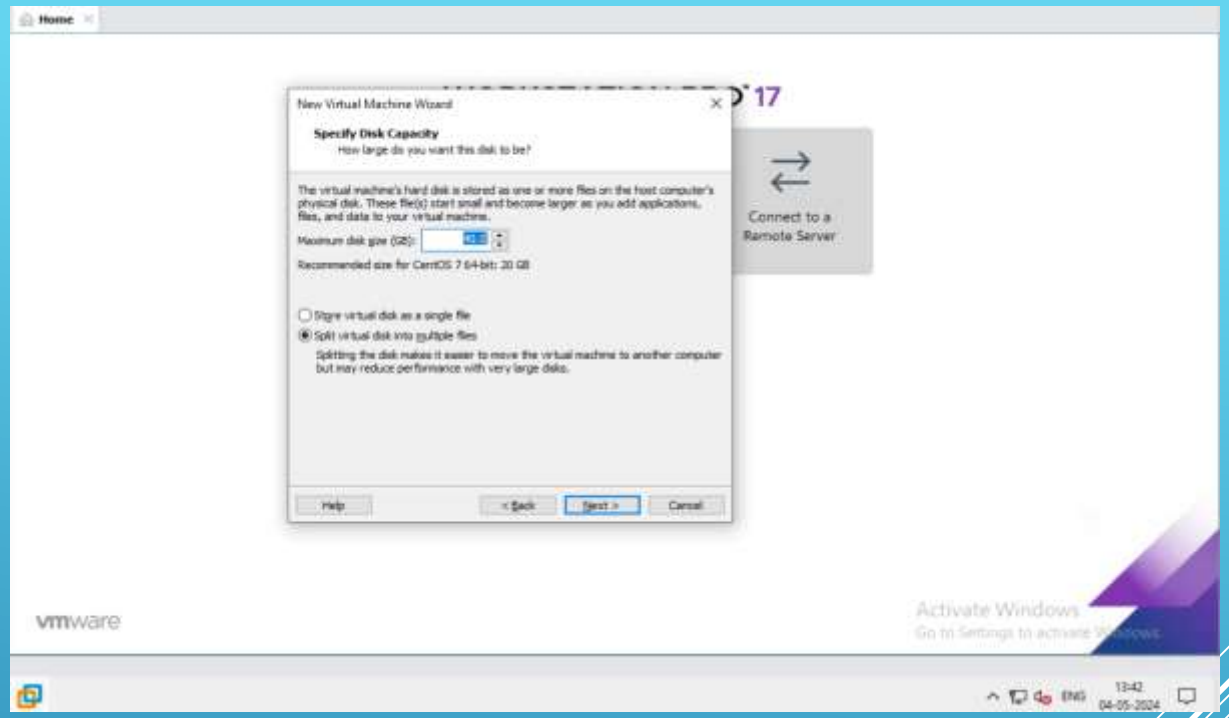
- After browse next step is assign full name, user name & password.
- Then click next.



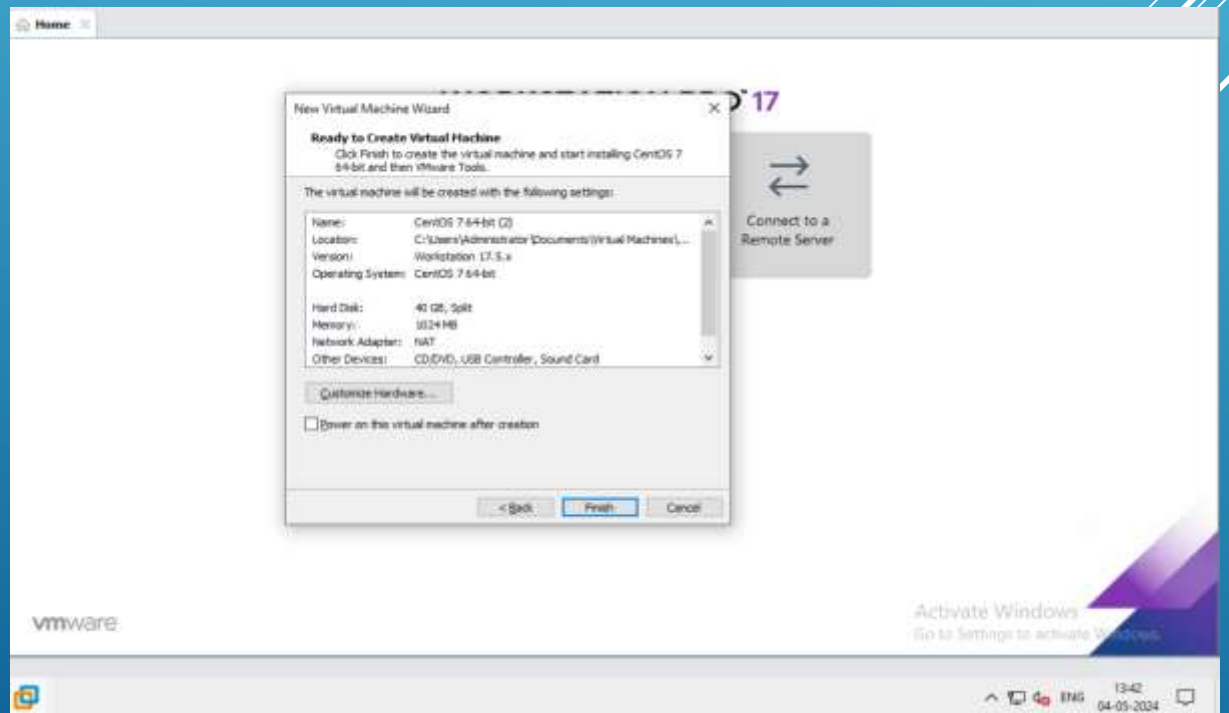
- After that give the name of the virtual machine.



- After that here we give Disk size of the machine.
- Click Next.

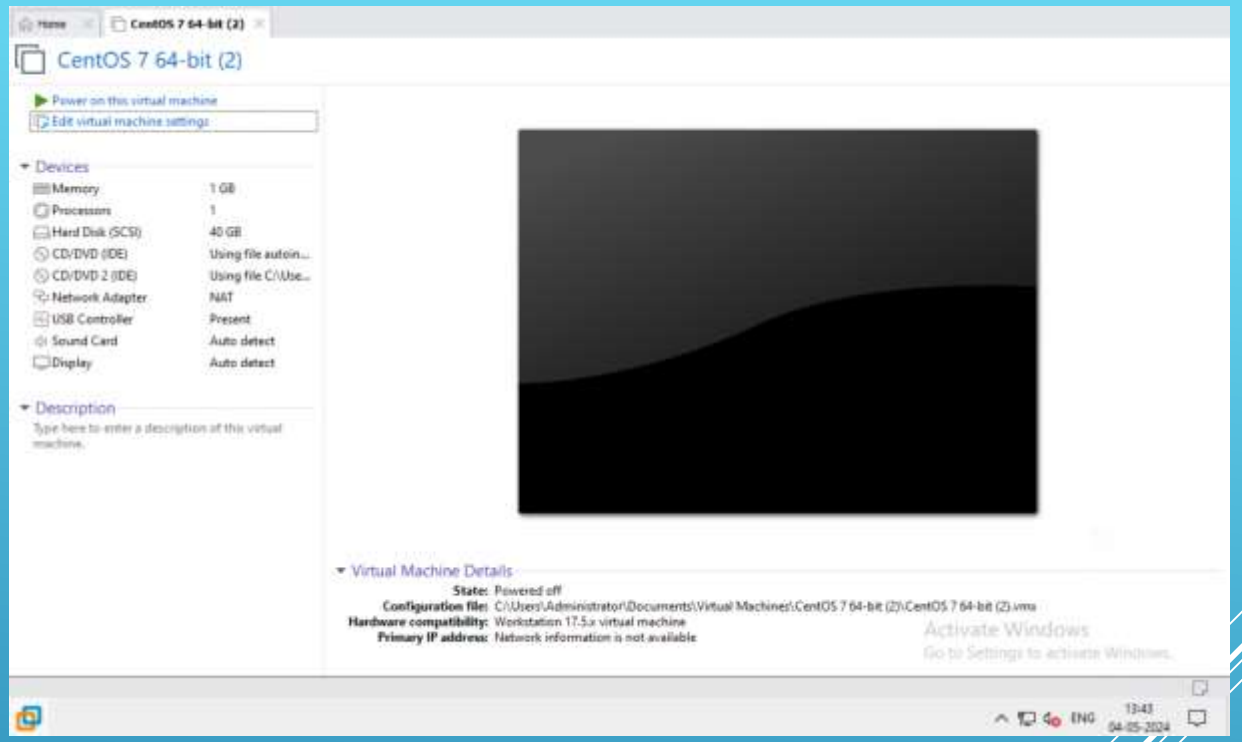


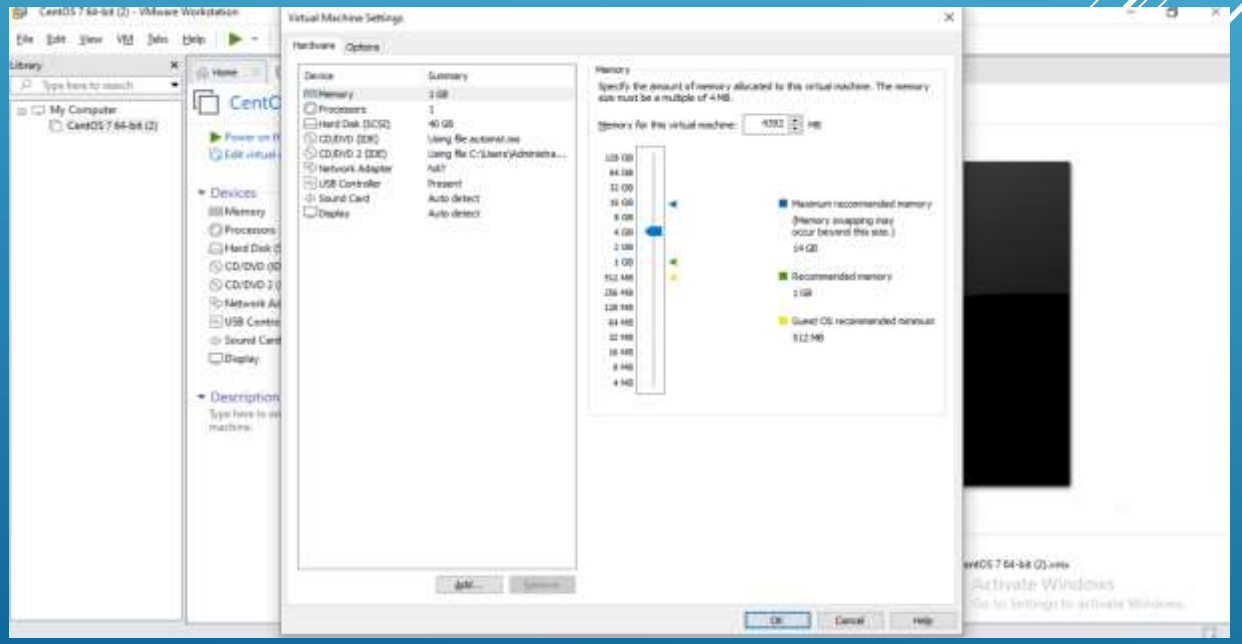
- In this step ,our CentOS-7 Virtual machine ready to create.
- Then click Next.



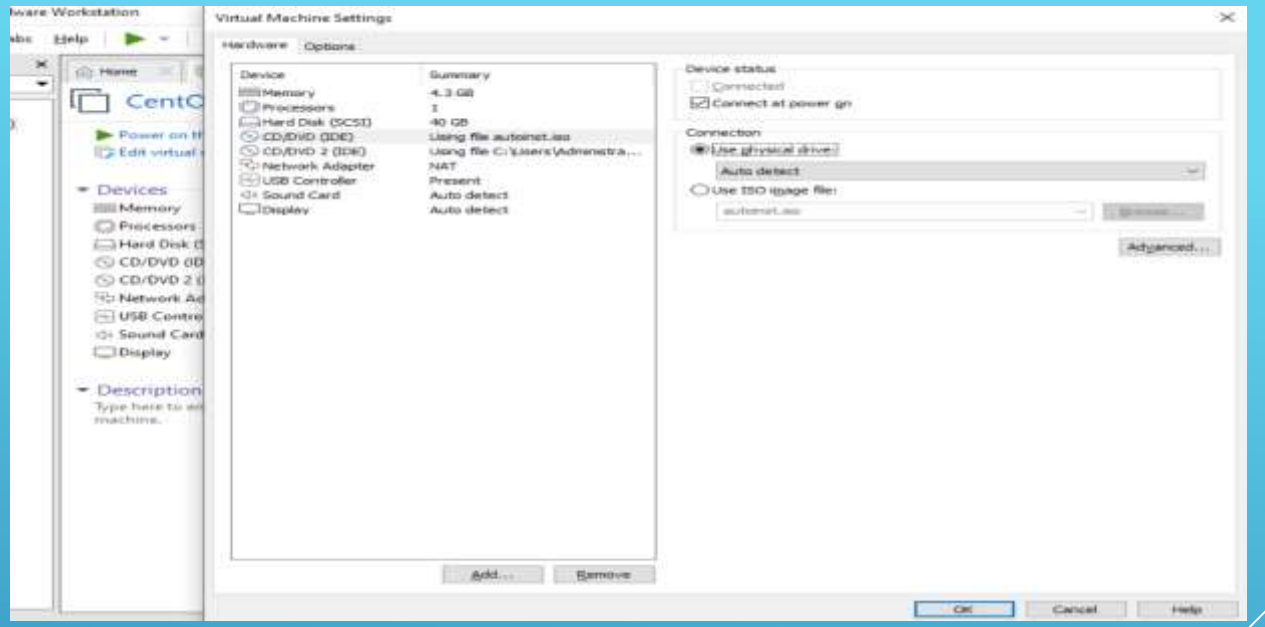
- Here is the first step after finished or first look of centOS-7.

- After that edit the virtual machine setting.
- Here is the first look.

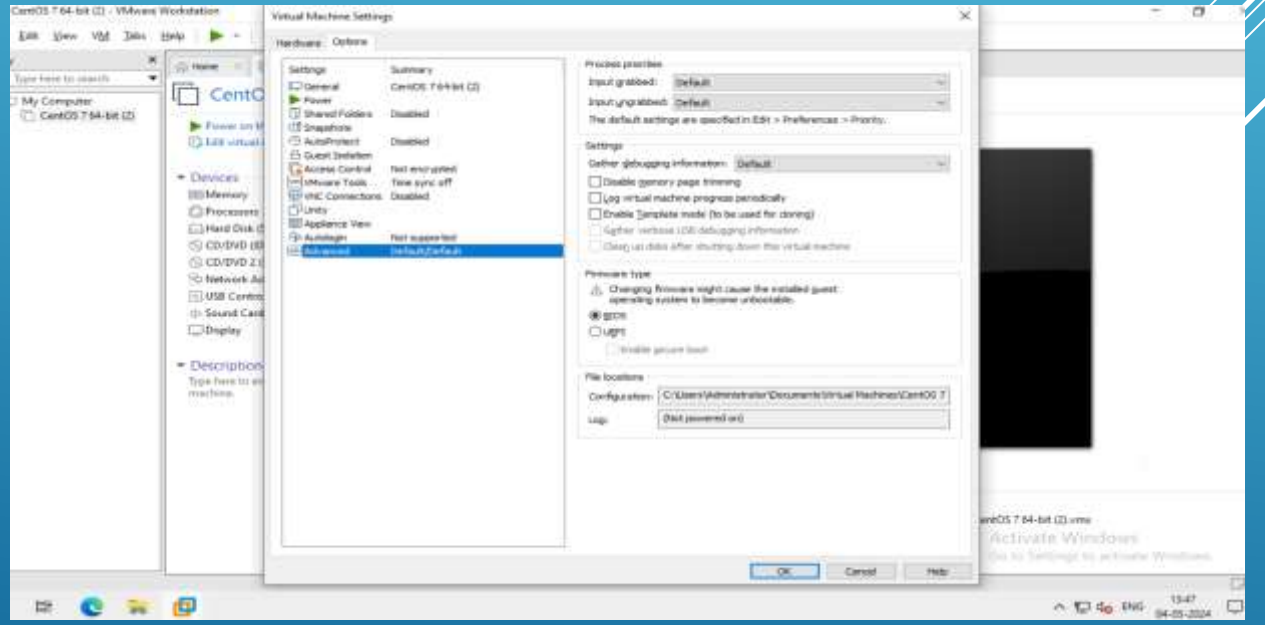




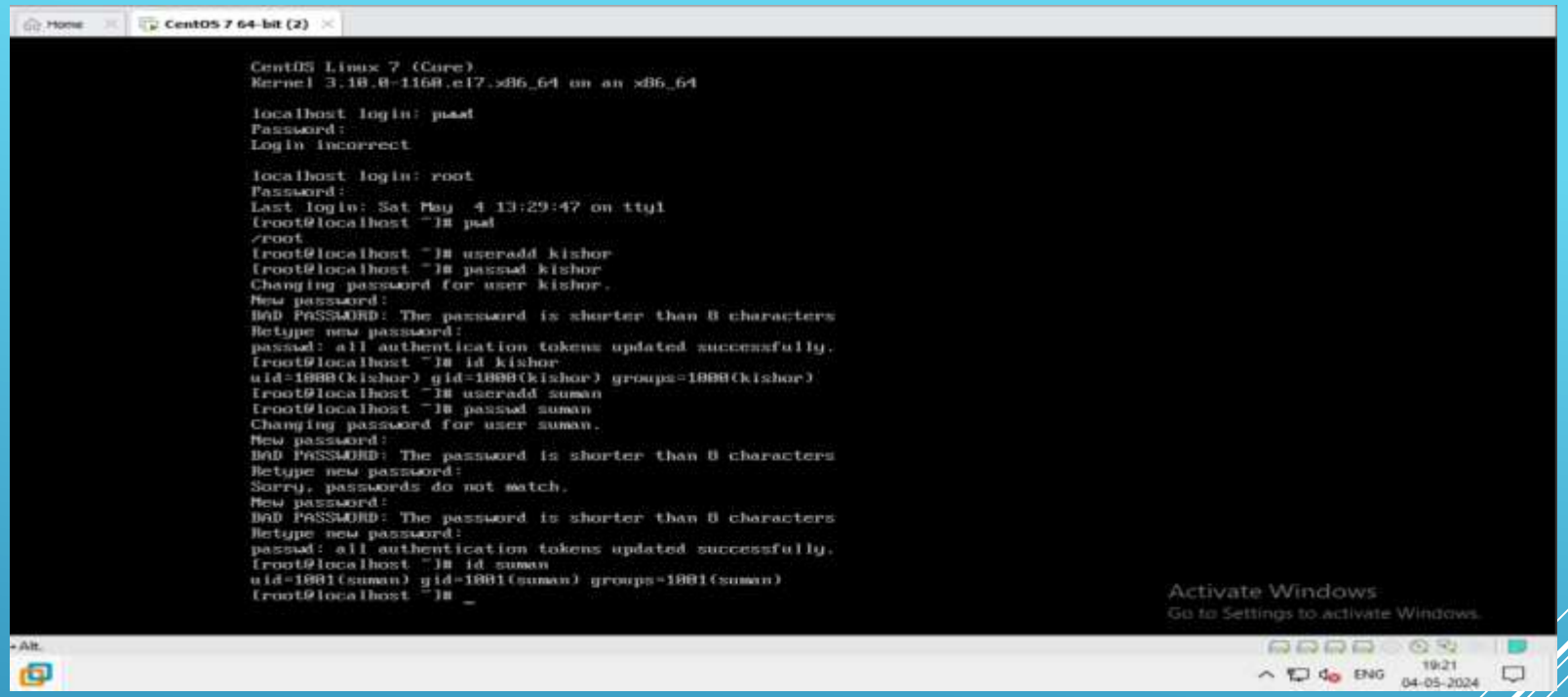
- ❑ Now go to the CD/DVD Choose physical drive.
- ❑ Click ok.



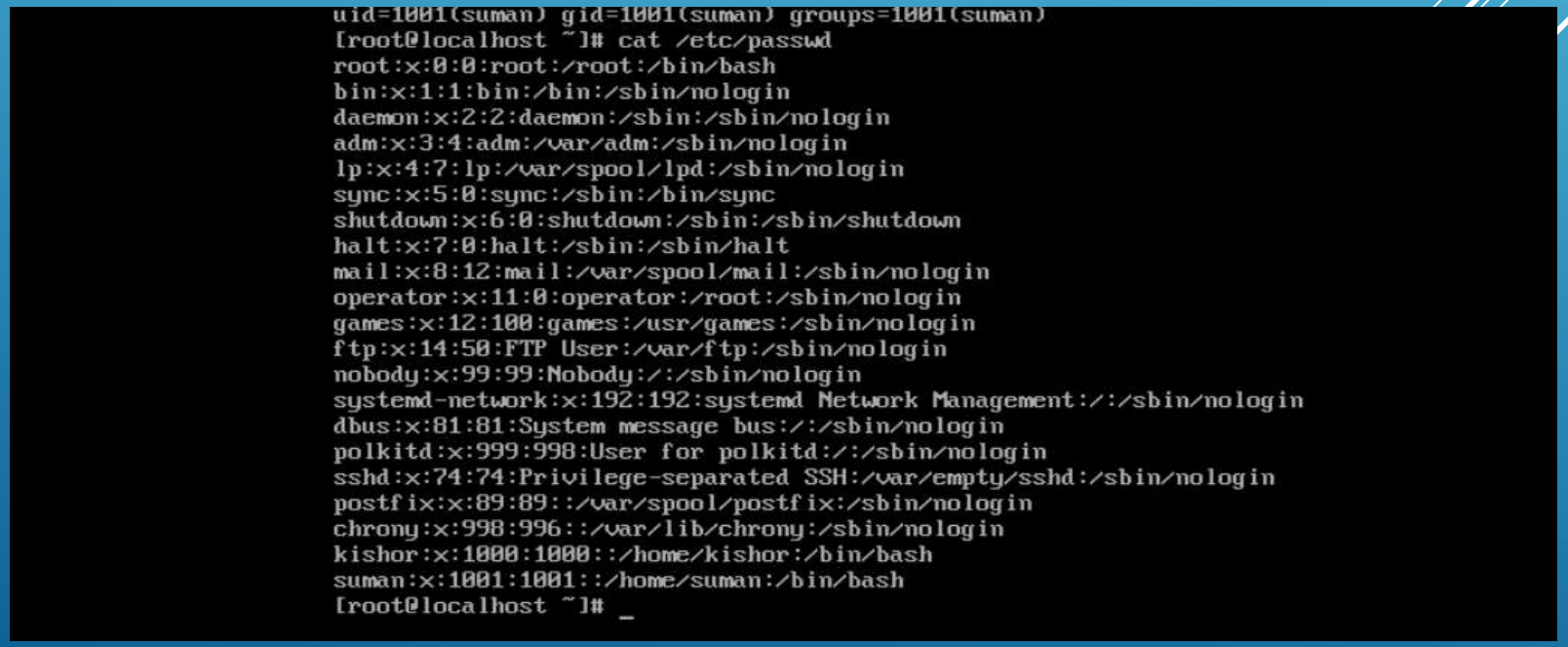
- ❑ Now go to the advance choose BIOS.
- ❑ Click ok.



- First login with root.
- Then Give password.
- Create user and group by the help of useradd and groupadd command.



- In 2nd slide verify user and group.



- Here verify group that is milestone and capstone.

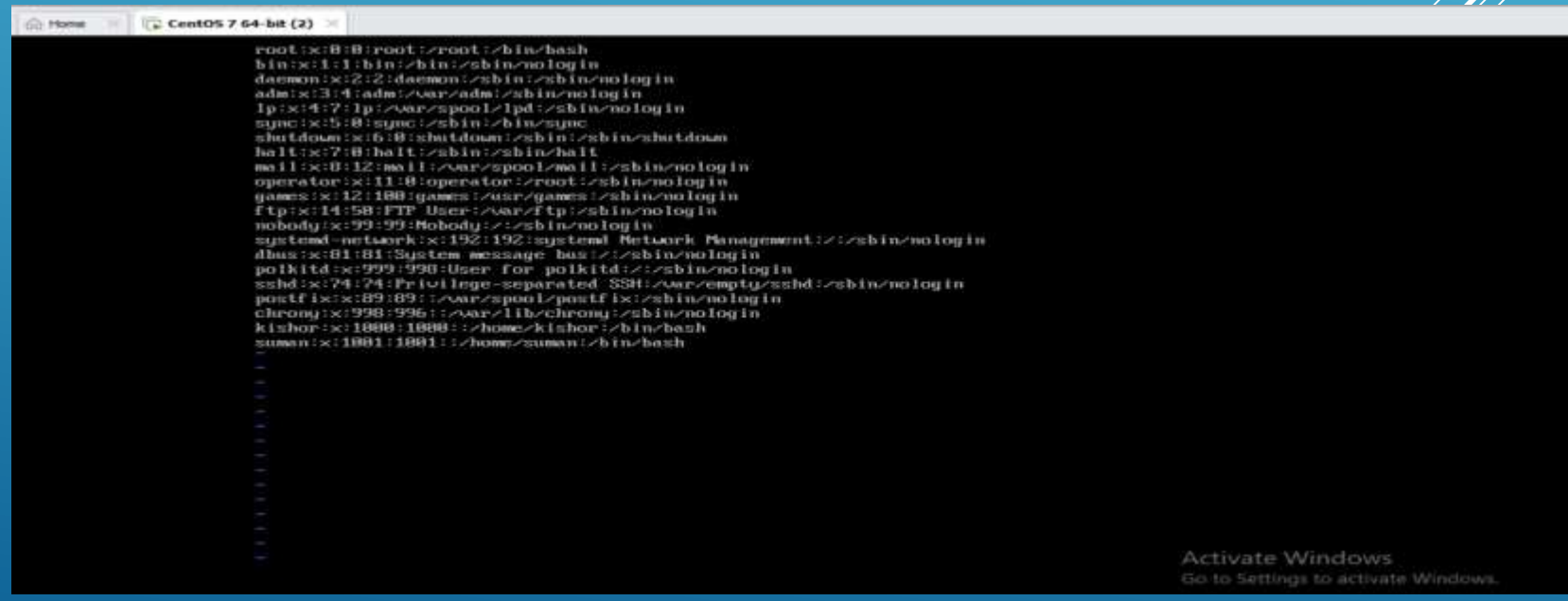
```
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:
cdrom:x:11:
mail:x:12:postfix
man:x:15:
dialout:x:18:
floppy:x:19:
games:x:20:
tape:x:33:
video:x:39:
ftp:x:50:
lock:x:54:
audio:x:63:
nobody:x:99:
users:x:100:
utmp:x:22:
utempter:x:35:
input:x:999:
systemd-journal:x:190:
systemd-network:x:192:
dbus:x:81:
polkitd:x:998:
ssh_keys:x:997:
sshd:x:74:
postdrop:x:90:
postfix:x:89:
chrony:x:996:
kishor:x:1000:
suman:x:1001:
millestone:x:1002:
capstone:x:1003:
[root@localhost ~]# group
-bash: group: command not found
[root@localhost ~]#
```

- Assign user to group.
- Here user name suman & Kishor.
- Group Name capstone & milestone.

```
postfix:x:89:
chrony:x:996:
kishor:x:1000:
suman:x:1001:
millestone:x:1002:
capstone:x:1003:
[root@localhost ~]# group
-bash: group: command not found
[root@localhost ~]# milestone /etc/group
-bash: milestone: command not found
[root@localhost ~]# usermod -G milestone kishor
usermod: group 'milestone' does not exist
[root@localhost ~]# usermod -G capstone kishor
[root@localhost ~]# usermod -G millestone suman
[root@localhost ~]#
```

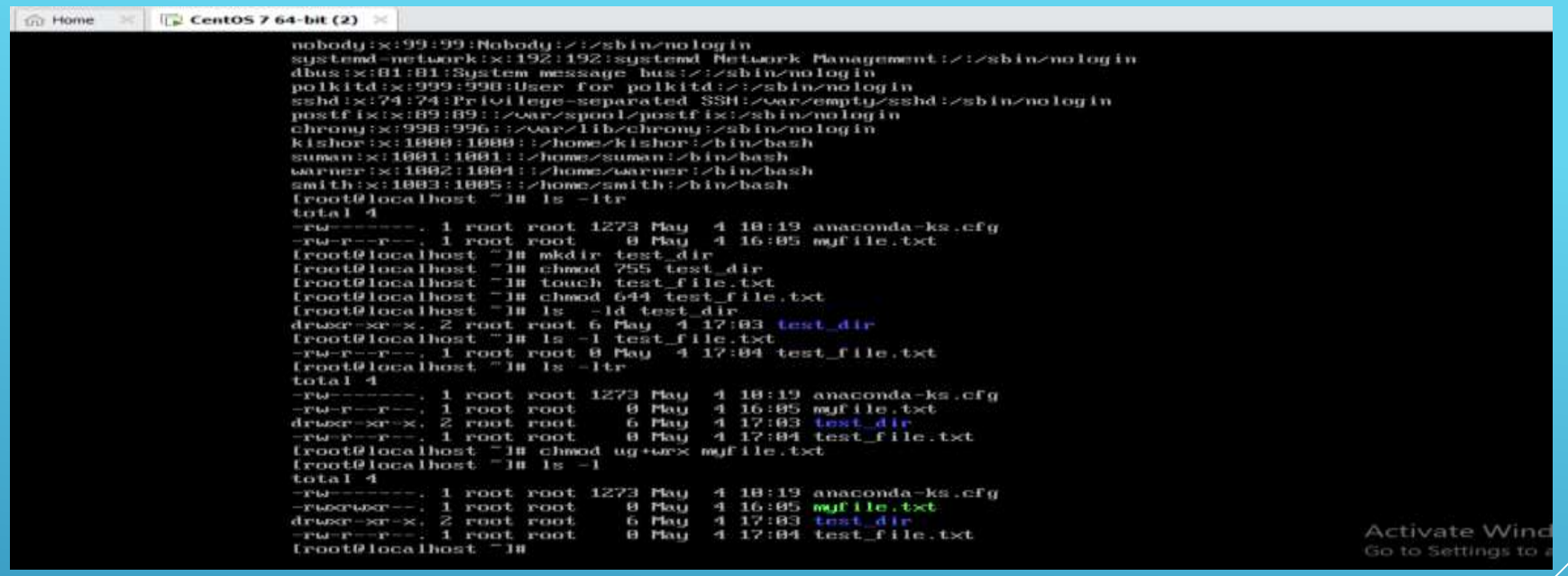
- Here verifying assign user to group .

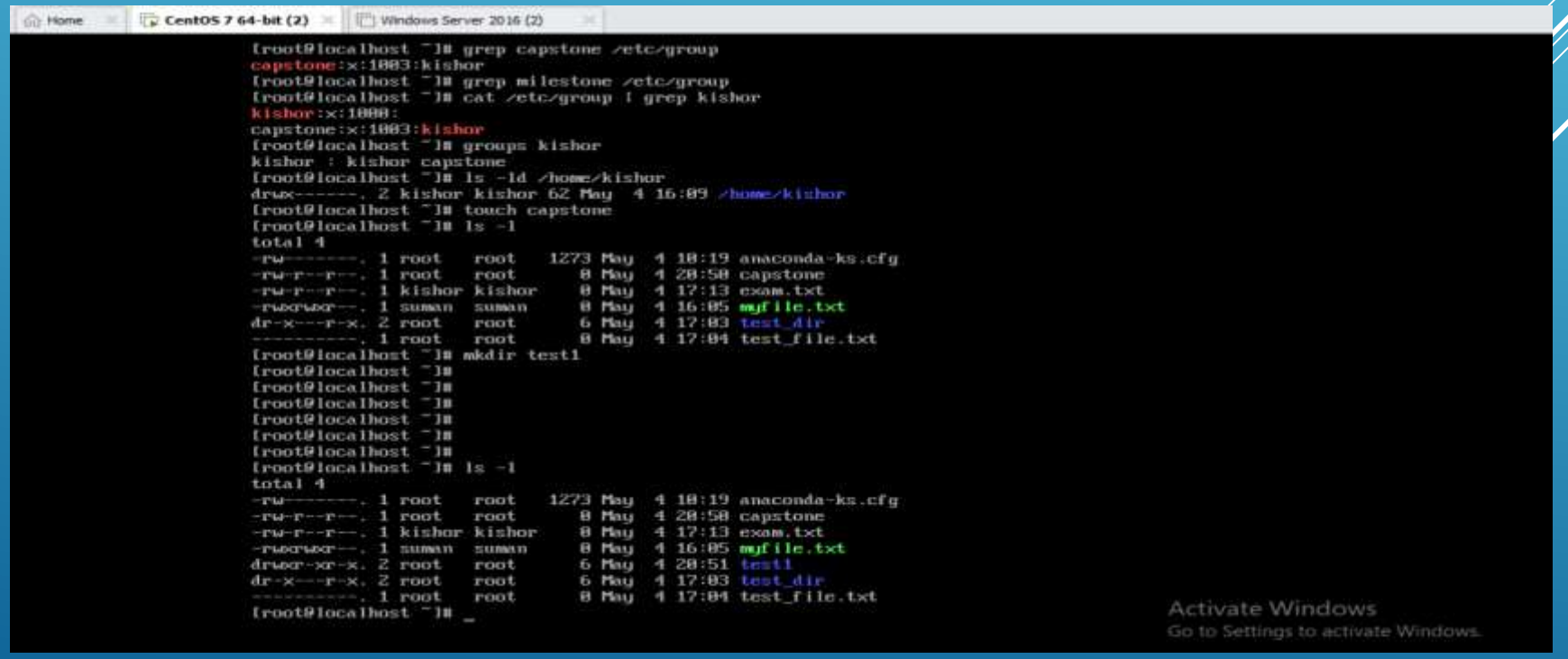
```
games:x:20:
tape:x:33:
video:x:39:
ftp:x:50:
lock:x:54:
audio:x:63:
nobody:x:99:
users:x:100:
utmp:x:22:
utempter:x:35:
input:x:999:
systemd-journal:x:190:
systemd-network:x:192:
dbus:x:81:
polkitd:x:998:
ssh_keys:x:997:
sshd:x:74:
postdrop:x:90:
postfix:x:89:
chrony:x:996:
kishor:x:1000:
suman:x:1001:
millestone:x:1002:suman
capstone:x:1003:kishor
[root@localhost ~]#
```



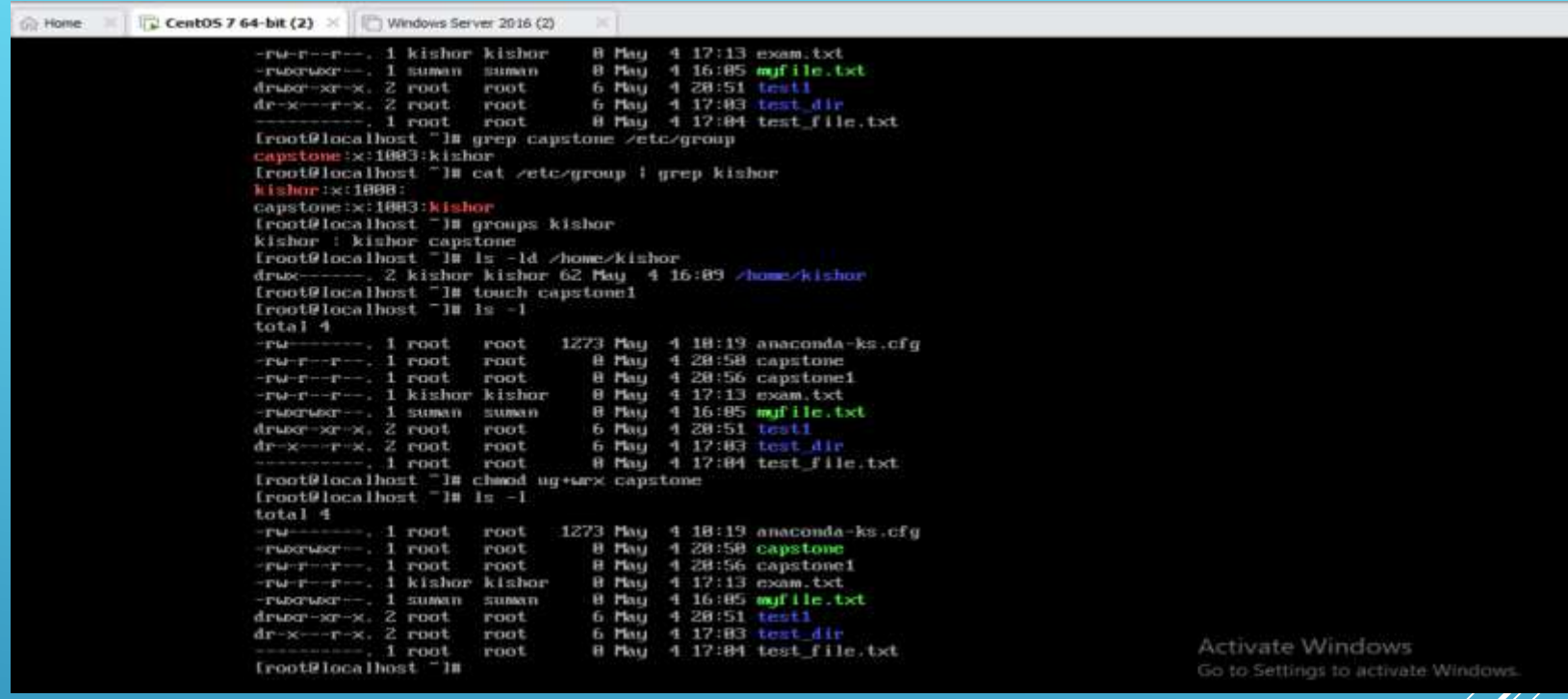
- Here use command to list file in the directory.
- Then create a directory.
- And give the permission using chmod.
- Then again run ls –ltr .

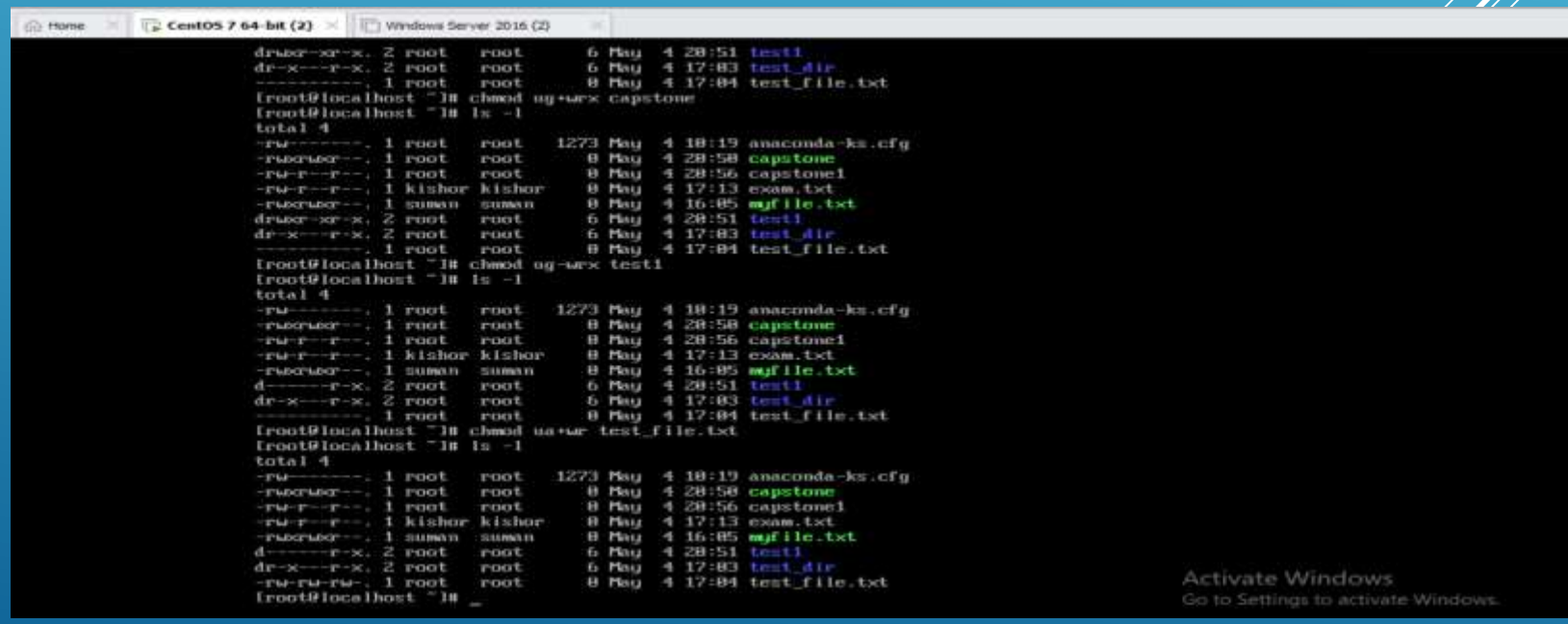
- Using grep serch the string.
- Then display the content of group.
- Then create empty file using touch.
- Then create a directory.





- Then using cat command display the content.
- Then using ls –l list file and directory in long format.
- Then using chmod we give permissions to empty file and other .
- Here uga used & u for user , g for group , a for all and also wrx means w for write , r for read and x for execute.
- By the help of above we give the permissions.



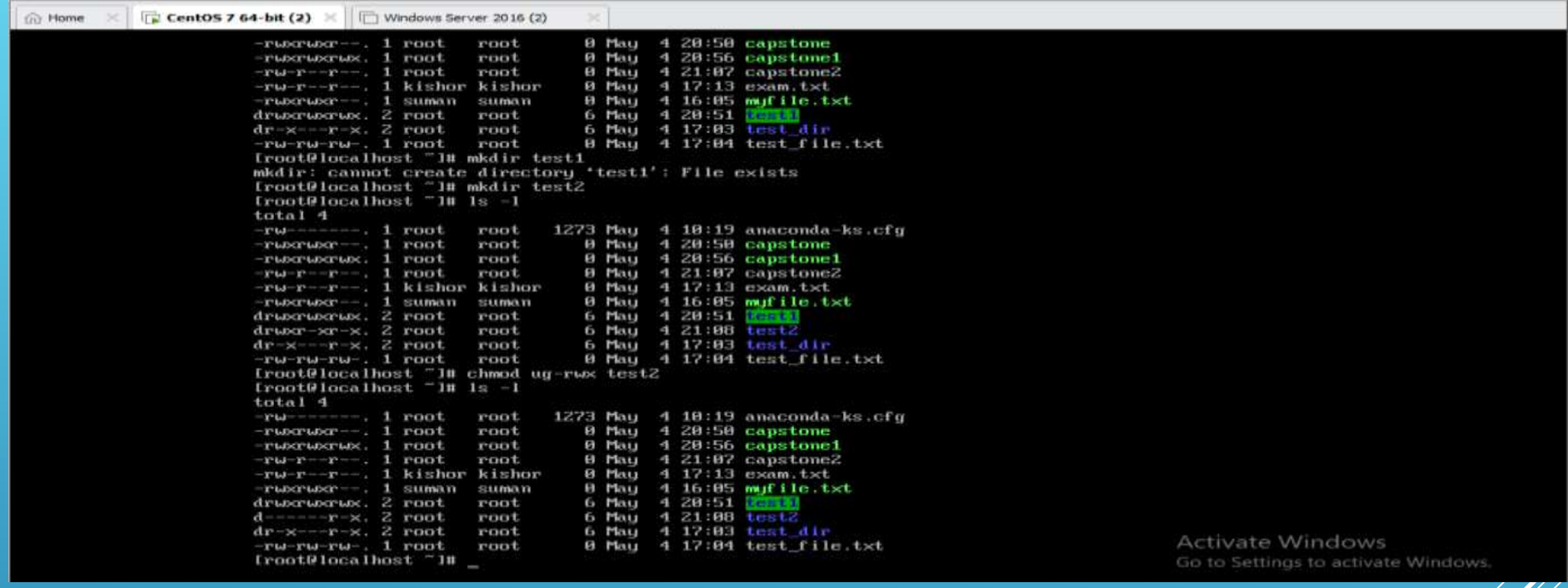


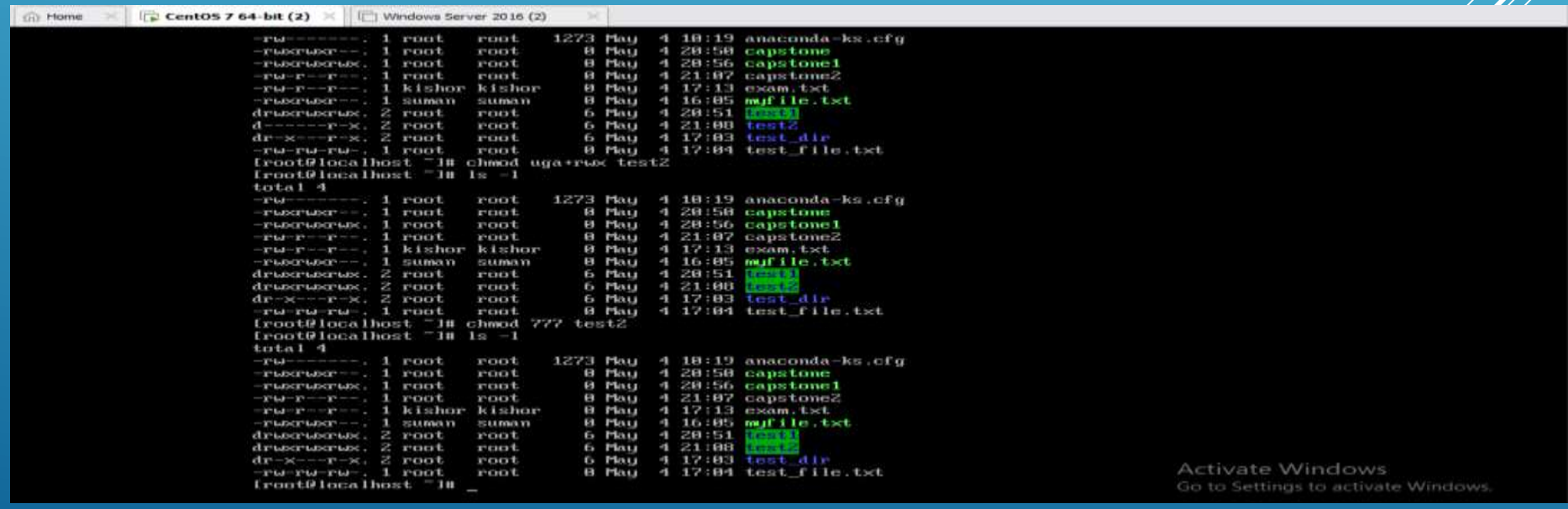
- Here also give file permission to file and other .
- Use chmod 777 for change the permission of file.
- Then give list information about two items “user” & “/home/Kishor”.
- Then list file and directory in long format.

```
[root@localhost ~]# chmod ua+wr test_file.txt
[root@localhost ~]# ls -l
total 4
-rw-------. 1 root   root   1273 May  4 10:19 anaconda-ks.cfg
-rwxrwxr--. 1 root   root      0 May  4 20:50 capstone
-rw-r--r--. 1 root   root      0 May  4 20:56 capstone1
-rw-r--r--. 1 kishor kishor    0 May  4 17:13 exam.txt
-rwxrwxr--. 1 suman  suman     0 May  4 16:05 myfile.txt
d------r-x. 2 root   root      6 May  4 20:51 test1
dr-x---r-x. 2 root   root      6 May  4 17:03 test_dir
-rw-rw-rw-. 1 root   root      0 May  4 17:04 test_file.txt
[root@localhost ~]# chmod uga+wrx capstone1
[root@localhost ~]# ls -l
total 4
-rw-------. 1 root   root   1273 May  4 10:19 anaconda-ks.cfg
-rwxrwxr--. 1 root   root      0 May  4 20:50 capstone
-rwxrwxrwx. 1 root   root      0 May  4 20:56 capstone1
-rw-r--r--. 1 kishor kishor    0 May  4 17:13 exam.txt
-rwxrwxr--. 1 suman  suman     0 May  4 16:05 myfile.txt
d------r-x. 2 root   root      6 May  4 20:51 test1
dr-x---r-x. 2 root   root      6 May  4 17:03 test_dir
-rw-rw-rw-. 1 root   root      0 May  4 17:04 test_file.txt
[root@localhost ~]# _
```

```
Home | CentOS 7 64-bit (2) | Windows Server 2016 (2)
-rwxrwxr--. 1 root   root      0 May  4 20:50 capstone
-rwxrwxrwx. 1 root   root      0 May  4 20:56 capstone1
-rw-r--r--. 1 kishor kishor    0 May  4 17:13 exam.txt
-rwxrwxr--. 1 suman  suman     0 May  4 16:05 myfile.txt
d------r-x. 2 root   root      6 May  4 20:51 test1
dr-x---r-x. 2 root   root      6 May  4 17:03 test_dir
-rw-rw-rw-. 1 root   root      0 May  4 17:04 test_file.txt
[root@localhost ~]# chmod 777 test
chmod: cannot access 'test': No such file or directory
[root@localhost ~]# chmod 777 test1
[root@localhost ~]# ls -l
total 4
-rw-------. 1 root   root   1273 May  4 10:19 anaconda-ks.cfg
-rwxrwxr--. 1 root   root      0 May  4 20:50 capstone
-rwxrwxrwx. 1 root   root      0 May  4 20:56 capstone1
-rw-r--r--. 1 kishor kishor    0 May  4 17:13 exam.txt
-rwxrwxr--. 1 suman  suman     0 May  4 16:05 myfile.txt
drwxrwxrwx. 2 root   root      6 May  4 20:51 test1
dr-x---r-x. 2 root   root      6 May  4 17:03 test_dir
-rw-rw-rw-. 1 root   root      0 May  4 17:04 test_file.txt
[root@localhost ~]# groups kishor
kishor : kishor capstone
[root@localhost ~]# ls -ld /home/kishor
drwx------. 2 kishor kishor 62 May  4 16:09 /home/kishor
[root@localhost ~]# touch capstone2
[root@localhost ~]# ls -l
total 4
-rw-------. 1 root   root   1273 May  4 10:19 anaconda-ks.cfg
-rwxrwxr--. 1 root   root      0 May  4 20:50 capstone
-rwxrwxrwx. 1 root   root      0 May  4 20:56 capstone1
-rw-r--r--. 1 root   root      0 May  4 21:07 capstone2
-rw-r--r--. 1 kishor kishor    0 May  4 17:13 exam.txt
-rwxrwxr--. 1 suman  suman     0 May  4 16:05 myfile.txt
drwxrwxrwx. 2 root   root      6 May  4 20:51 test1
dr-x---r-x. 2 root   root      6 May  4 17:03 test_dir
-rw-rw-rw-. 1 root   root      0 May  4 17:04 test_file.txt
[root@localhost ~]# _
```

- Here explain more permission and long list of file.
- That's all.





Thank You
Kishor Chandra Sahoo