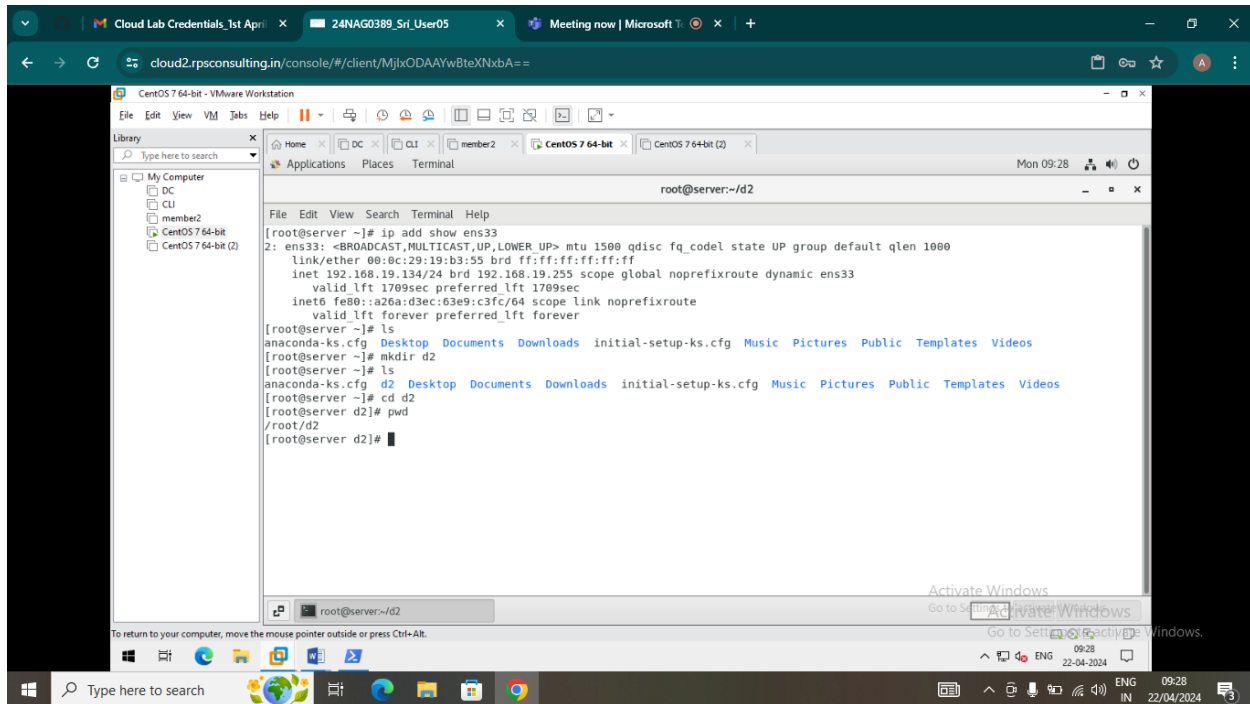


LINUX-DAY 1

Listing the documents present using ls command and creating a directory

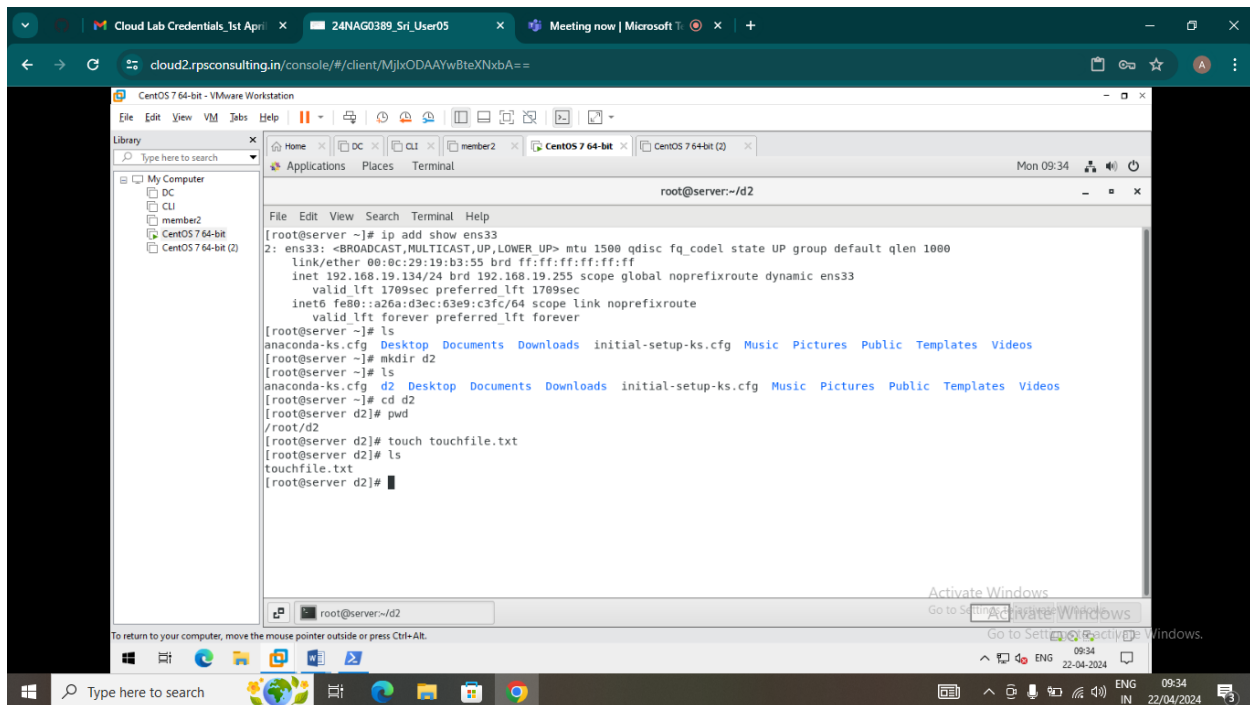


The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running a CentOS 7 64-bit VM. The user is root at the server. The terminal output shows the following commands and results:

```
[root@server ~]# ip add show ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:19:b3:55 brd ff:ff:ff:ff:ff:ff
    inet 192.168.19.134/24 brd 192.168.19.255 scope global noprefixroute dynamic ens33
        valid_lft 1789sec preferred_lft 1789sec
    inet6 fe80::a26a:d3ec:63e9:c3fc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

[root@server ~]# ls
anaconda-ks.cfg  Desktop  Documents  Downloads  initial-setup-ks.cfg  Music  Pictures  Public  Templates  Videos
[root@server ~]# mkdir d2
[root@server ~]# ls
anaconda-ks.cfg  d2  Desktop  Documents  Downloads  initial-setup-ks.cfg  Music  Pictures  Public  Templates  Videos
[root@server ~]# cd d2
[root@server d2]# pwd
/root/d2
[root@server d2]#
```

Creating the empty file using “touch” command, named – touchfile.txt

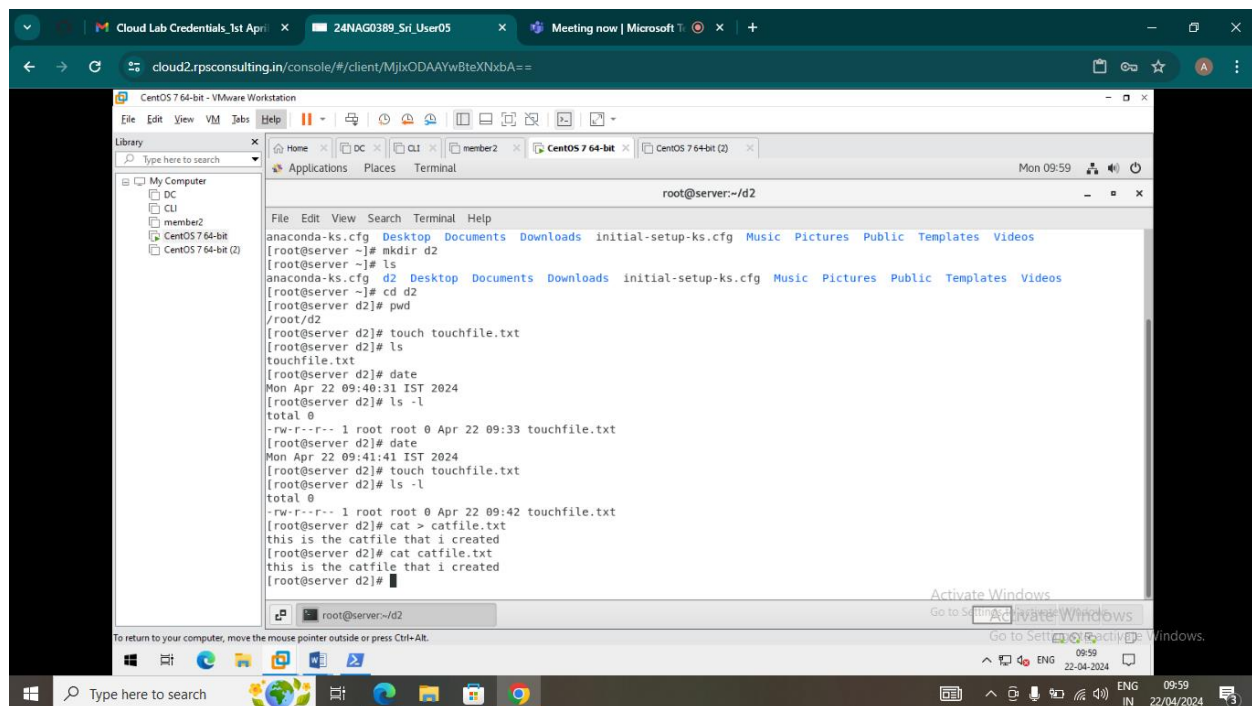


The screenshot shows the same VMware Workstation interface with the terminal window. The user is root at the server. The terminal output shows the following commands and results:

```
[root@server ~]# ip add show ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:19:b3:55 brd ff:ff:ff:ff:ff:ff
    inet 192.168.19.134/24 brd 192.168.19.255 scope global noprefixroute dynamic ens33
        valid_lft 1789sec preferred_lft 1789sec
    inet6 fe80::a26a:d3ec:63e9:c3fc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

[root@server ~]# ls
anaconda-ks.cfg  Desktop  Documents  Downloads  initial-setup-ks.cfg  Music  Pictures  Public  Templates  Videos
[root@server ~]# mkdir d2
[root@server ~]# ls
anaconda-ks.cfg  d2  Desktop  Documents  Downloads  initial-setup-ks.cfg  Music  Pictures  Public  Templates  Videos
[root@server ~]# cd d2
[root@server d2]# pwd
/root/d2
[root@server d2]# touch touchfile.txt
[root@server d2]# ls
touchfile.txt
[root@server d2]#
```

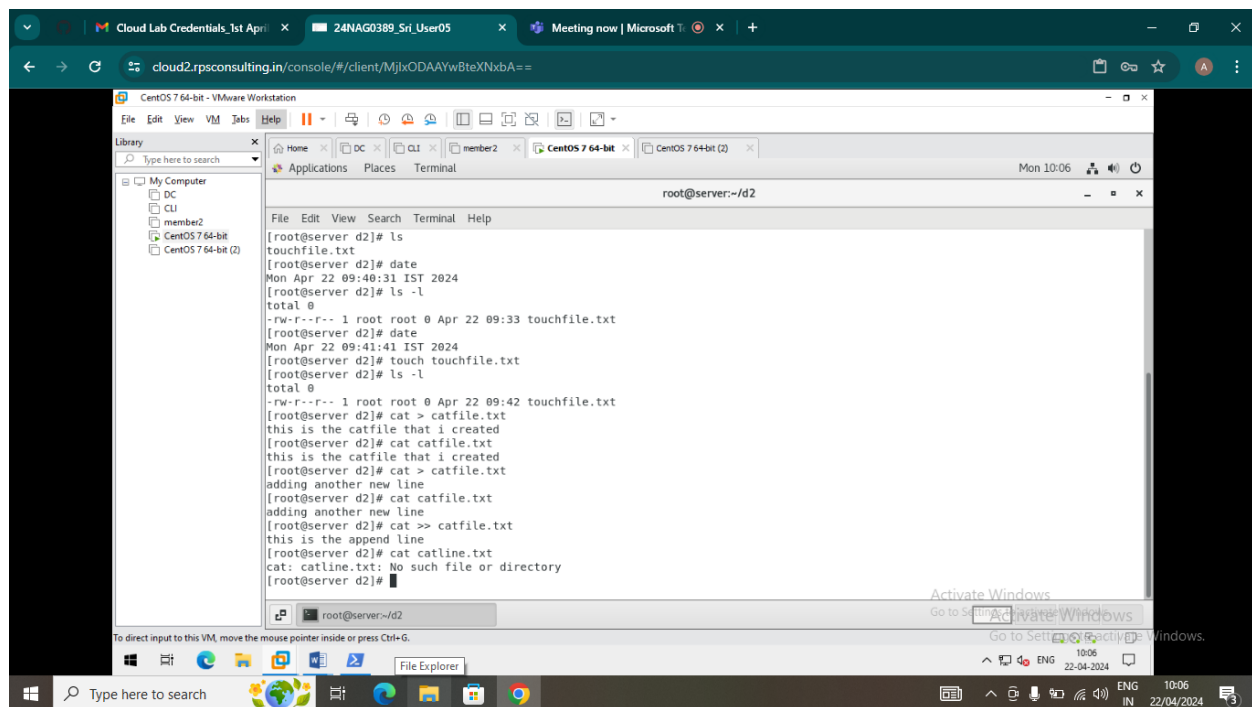
Executing date ,creating the file and displays using “cat” command



The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running a series of commands to create a directory, a file, and display its contents. The commands and their outputs are as follows:

```
root@server:~/d2
File Edit View Search Terminal Help
[anaconda-ks.cfg Desktop Documents Downloads initial-setup-ks.cfg Music Pictures Public Templates Videos]
[root@server ~]# mkdir d2
[anaconda-ks.cfg Desktop Documents Downloads initial-setup-ks.cfg Music Pictures Public Templates Videos]
[root@server ~]# ls
[anaconda-ks.cfg Desktop Documents Downloads initial-setup-ks.cfg Music Pictures Public Templates Videos]
[root@server ~]# cd d2
[root@server d2]# pwd
/root/d2
[root@server d2]# touch touchfile.txt
[root@server d2]# ls
touchfile.txt
[root@server d2]# date
Mon Apr 22 09:40:31 IST 2024
[root@server d2]# ls -l
total 0
-rw-r--r-- 1 root root 0 Apr 22 09:33 touchfile.txt
[root@server d2]# date
Mon Apr 22 09:41:41 IST 2024
[root@server d2]# touch touchfile.txt
[root@server d2]# ls -l
total 0
-rw-r--r-- 1 root root 0 Apr 22 09:42 touchfile.txt
[root@server d2]# cat > catfile.txt
this is the catfile that i created
[root@server d2]# cat catfile.txt
this is the catfile that i created
[root@server d2]#
```

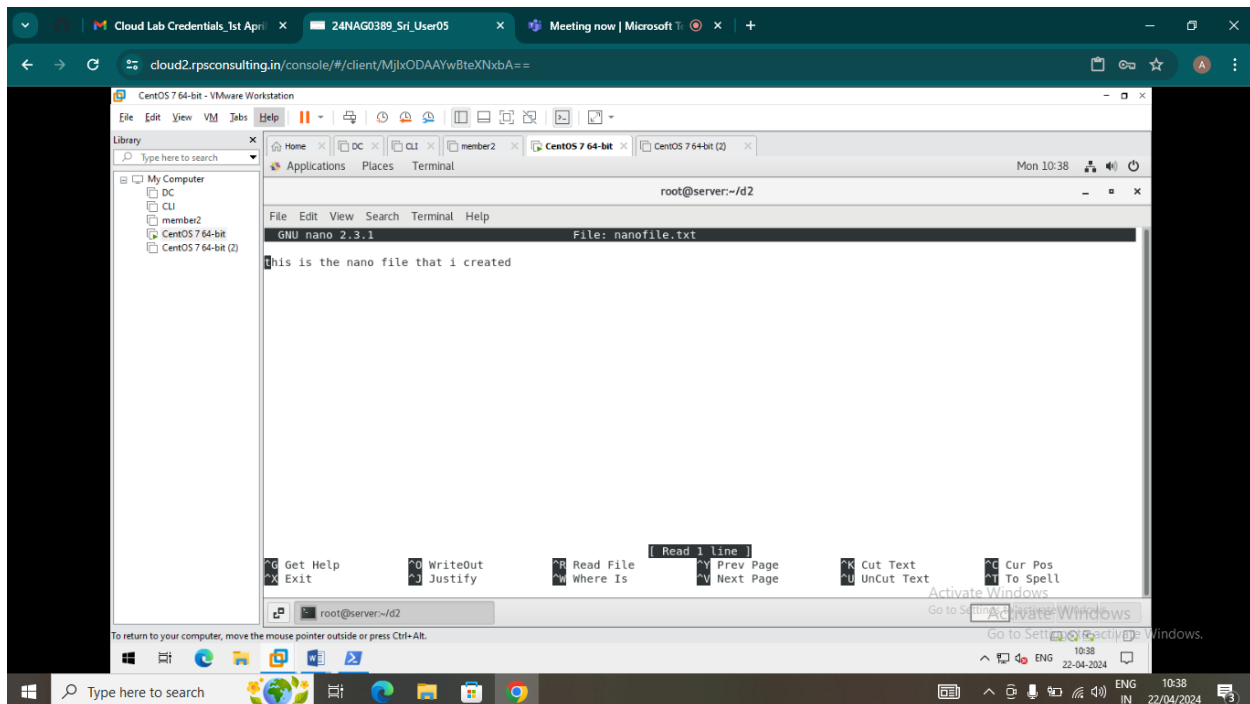
Adding data in file and appending



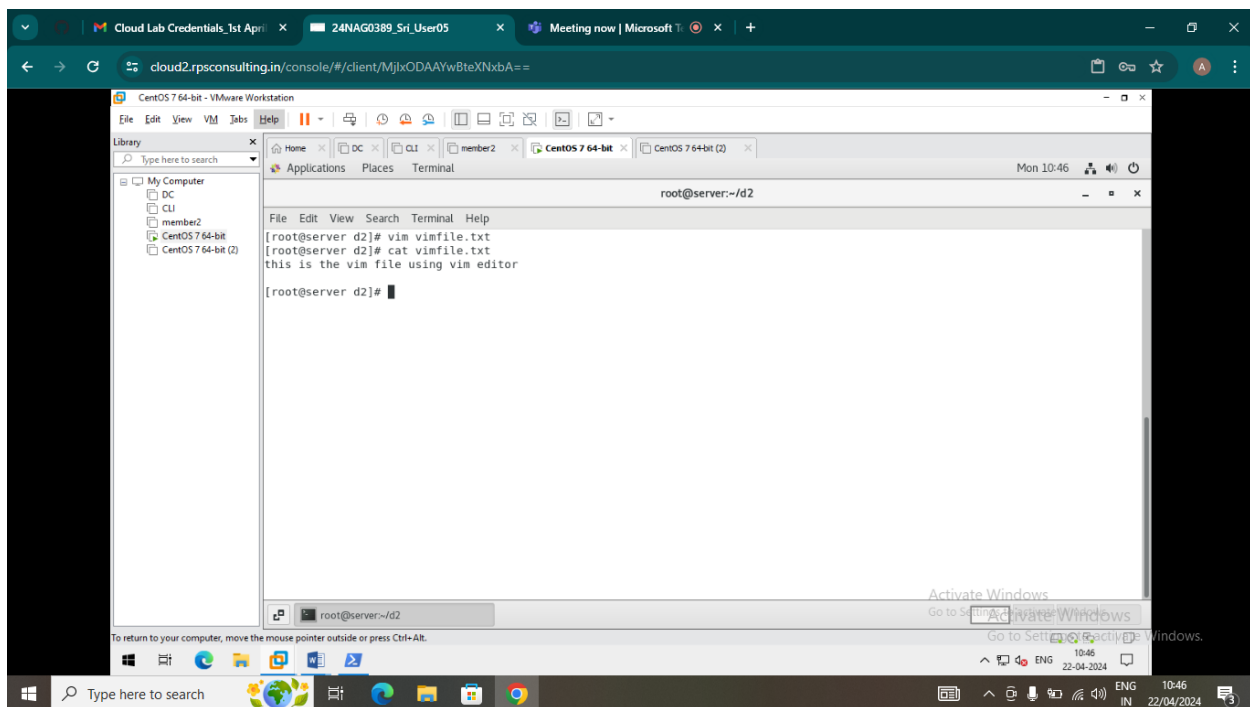
The screenshot shows the same VMware Workstation terminal window as before, but with additional commands to append data to the file and attempt to create a non-existent file. The commands and their outputs are as follows:

```
root@server:~/d2
File Edit View Search Terminal Help
[anaconda-ks.cfg Desktop Documents Downloads initial-setup-ks.cfg Music Pictures Public Templates Videos]
[root@server d2]# ls
touchfile.txt
[root@server d2]# date
Mon Apr 22 09:40:31 IST 2024
[root@server d2]# ls -l
total 0
-rw-r--r-- 1 root root 0 Apr 22 09:33 touchfile.txt
[root@server d2]# date
Mon Apr 22 09:41:41 IST 2024
[root@server d2]# touch touchfile.txt
[root@server d2]# ls -l
total 0
-rw-r--r-- 1 root root 0 Apr 22 09:42 touchfile.txt
[root@server d2]# cat > catfile.txt
this is the catfile that i created
[root@server d2]# cat catfile.txt
this is the catfile that i created
[root@server d2]# cat > catfile.txt
adding another new line
[root@server d2]# cat catfile.txt
this is the catfile that i created
adding another new line
[root@server d2]# cat >> catfile.txt
this is the append line
[root@server d2]# cat catline.txt
cat: catline.txt: No such file or directory
[root@server d2]#
```

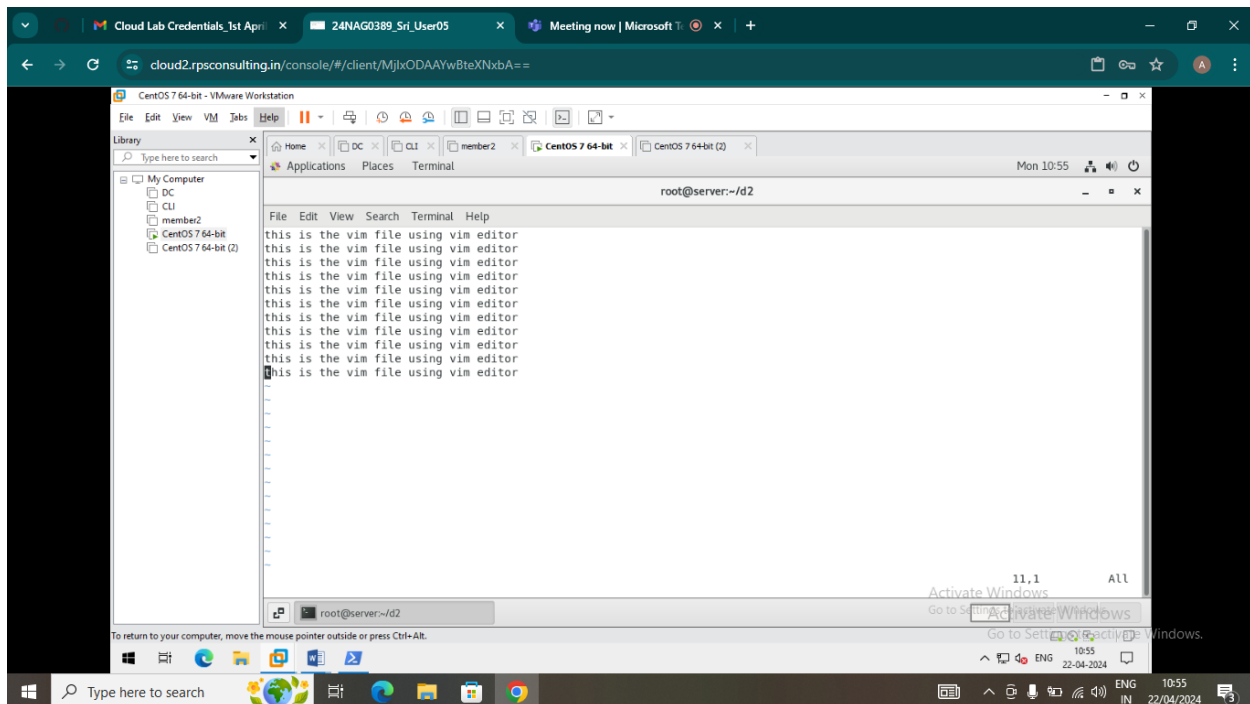
Creating two files and adding two files together



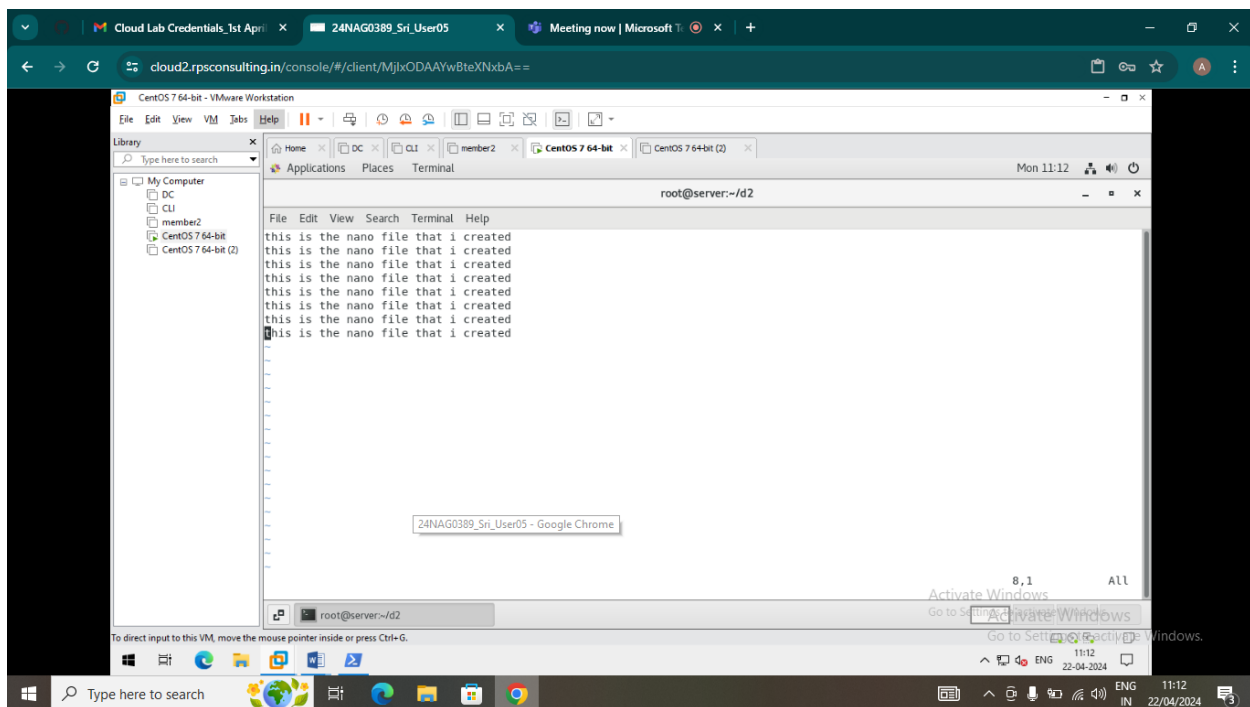
Editing a file using “vim” command



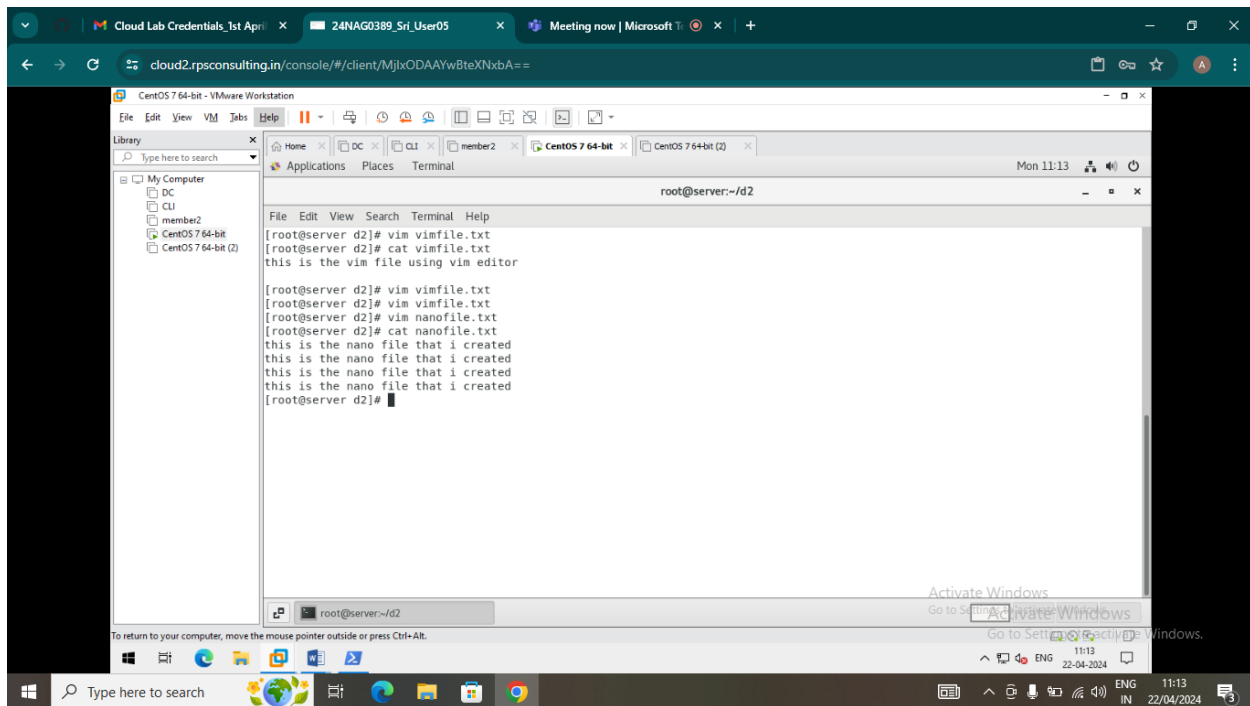
Entering and editing data using “vim” command.



Adding data in nano file



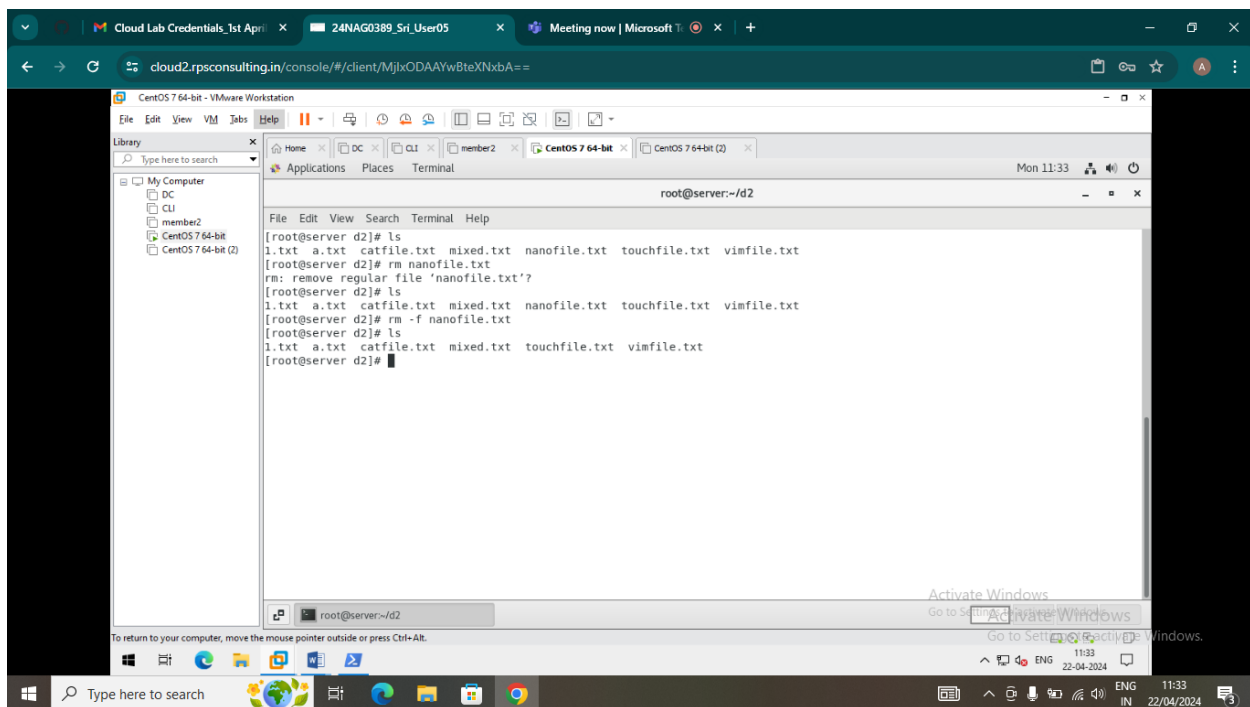
Displaying a nano file



```
root@server:~/d2
File Edit View Search Terminal Help
[root@server d2]# vim vimfile.txt
[root@server d2]# cat vimfile.txt
this is the vim file using vim editor

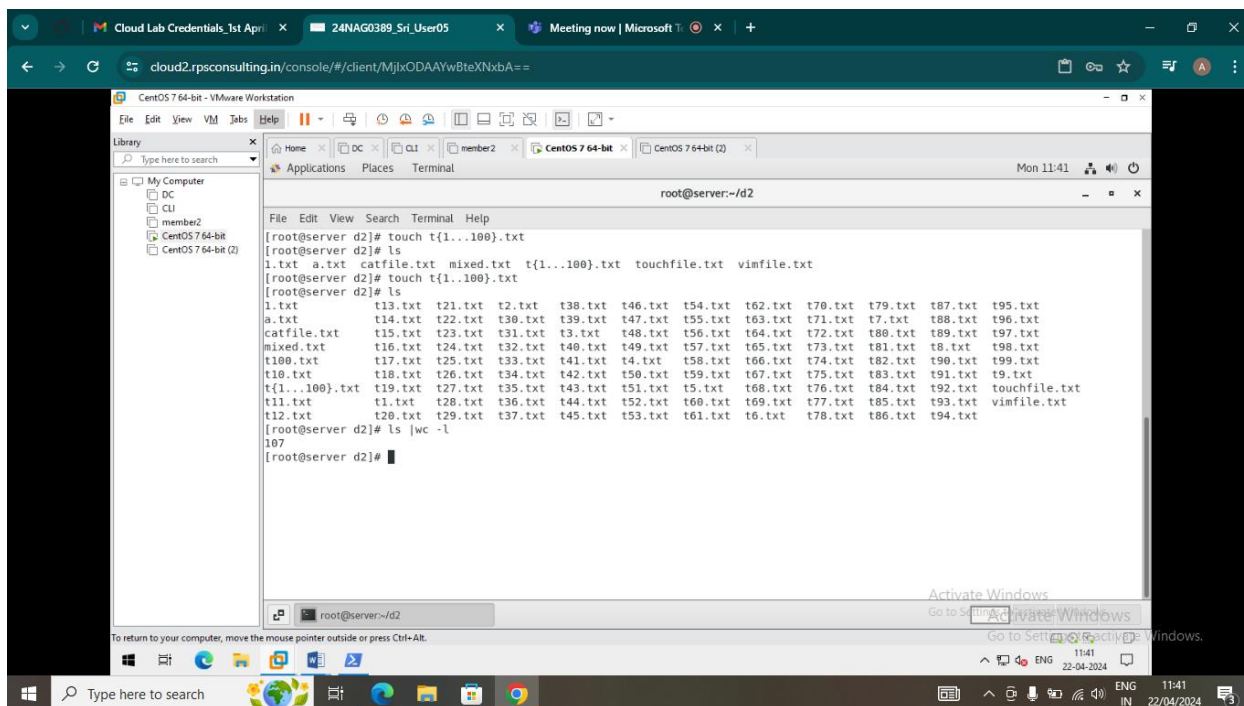
[root@server d2]# vim vimfile.txt
[root@server d2]# vim vimfile.txt
[root@server d2]# vim nanofile.txt
[root@server d2]# cat nanofile.txt
this is the nano file that i created
this is the nano file that i created
this is the nano file that i created
this is the nano file that i created
[root@server d2]#
```

Listing the files



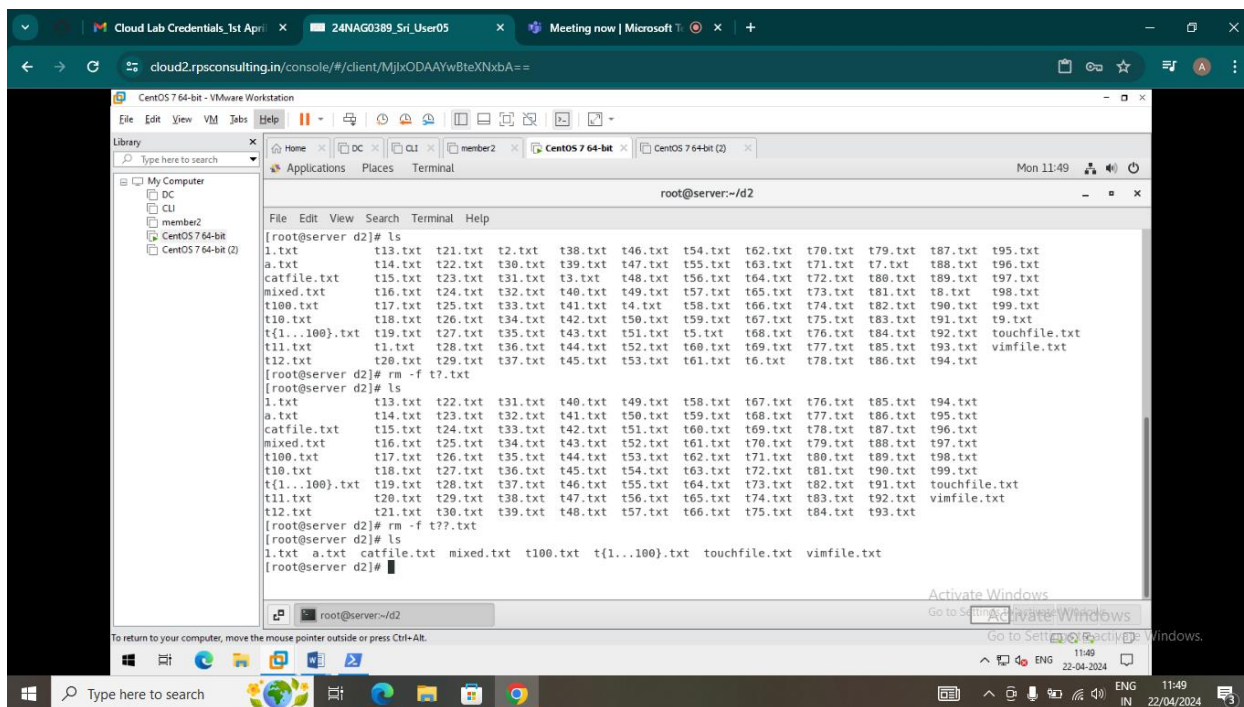
```
root@server:~/d2
File Edit View Search Terminal Help
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt nanofile.txt touchfile.txt vimfile.txt
[root@server d2]# rm nanofile.txt
rm: remove regular file 'nanofile.txt'?
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt nanofile.txt touchfile.txt vimfile.txt
[root@server d2]# rm -f nanofile.txt
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt touchfile.txt vimfile.txt
[root@server d2]#
```

Creating many files using a single command



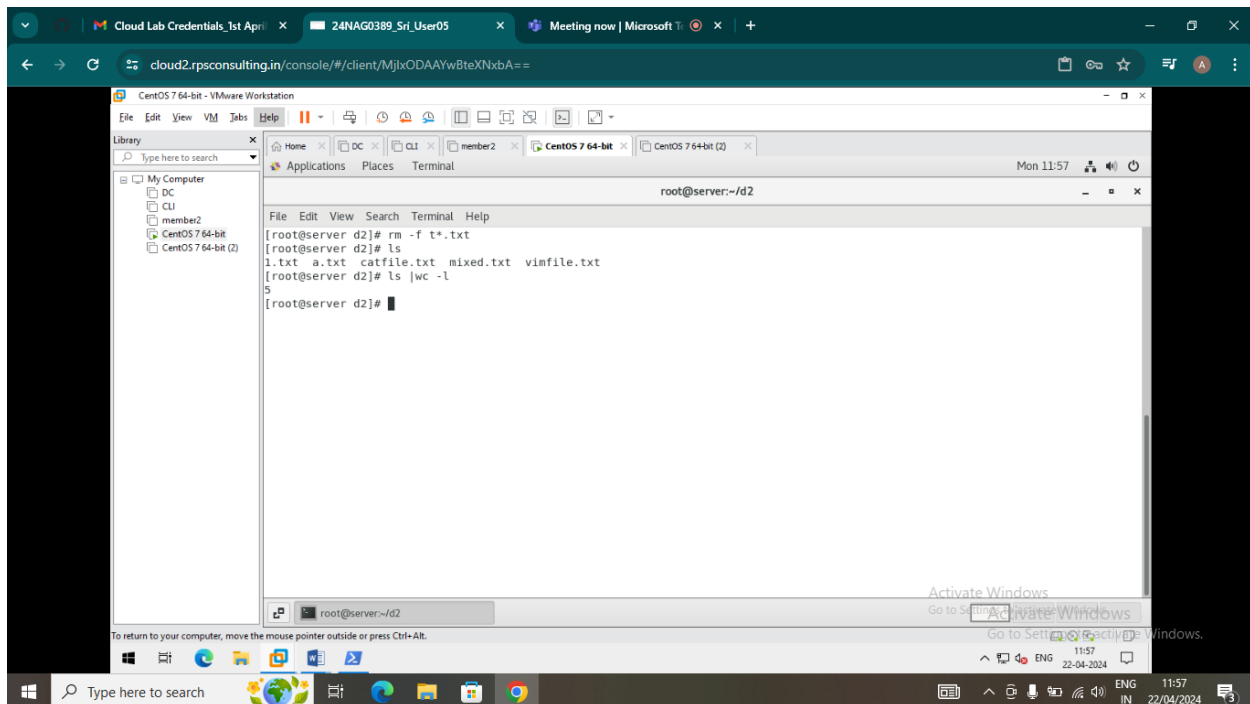
```
File Edit View Search Terminal Help
[root@server d2]# touch t{1..100}.txt
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt t{1..100}.txt touchfile.txt vimfile.txt
[root@server d2]# touch t{1..100}.txt
[root@server d2]# ls
1.txt t13.txt t21.txt t2.txt t38.txt t46.txt t54.txt t62.txt t70.txt t79.txt t87.txt t95.txt
a.txt t14.txt t22.txt t30.txt t39.txt t47.txt t55.txt t63.txt t71.txt t7.txt t88.txt t96.txt
catfile.txt t15.txt t23.txt t31.txt t3.txt t48.txt t56.txt t64.txt t72.txt t80.txt t89.txt t97.txt
mixed.txt t16.txt t24.txt t32.txt t40.txt t49.txt t57.txt t65.txt t73.txt t81.txt t8.txt t98.txt
t100.txt t17.txt t25.txt t33.txt t41.txt t4.txt t58.txt t66.txt t74.txt t82.txt t90.txt t99.txt
t10.txt t18.txt t26.txt t34.txt t42.txt t50.txt t59.txt t67.txt t75.txt t83.txt t91.txt t9.txt
t{1..100}.txt t19.txt t27.txt t35.txt t43.txt t51.txt t5.txt t68.txt t76.txt t84.txt t92.txt touchfile.txt
t11.txt t1.txt t28.txt t36.txt t44.txt t52.txt t60.txt t69.txt t77.txt t85.txt t93.txt vimfile.txt
t12.txt t20.txt t29.txt t37.txt t45.txt t53.txt t61.txt t6.txt t78.txt t86.txt t94.txt
[root@server d2]# ls |wc -l
107
[root@server d2]#
```

Removing the files using “rm” command.



```
File Edit View Search Terminal Help
[root@server d2]# ls
1.txt t13.txt t21.txt t2.txt t38.txt t46.txt t54.txt t62.txt t70.txt t79.txt t87.txt t95.txt
a.txt t14.txt t22.txt t30.txt t39.txt t47.txt t55.txt t63.txt t71.txt t7.txt t88.txt t96.txt
catfile.txt t15.txt t23.txt t31.txt t3.txt t48.txt t56.txt t64.txt t72.txt t80.txt t89.txt t97.txt
mixed.txt t16.txt t24.txt t32.txt t40.txt t49.txt t57.txt t65.txt t73.txt t81.txt t8.txt t98.txt
t100.txt t17.txt t25.txt t33.txt t41.txt t4.txt t58.txt t66.txt t74.txt t82.txt t90.txt t99.txt
t10.txt t18.txt t26.txt t34.txt t42.txt t50.txt t59.txt t67.txt t75.txt t83.txt t91.txt t9.txt
t{1..100}.txt t19.txt t27.txt t35.txt t43.txt t51.txt t5.txt t68.txt t76.txt t84.txt t92.txt touchfile.txt
t11.txt t1.txt t28.txt t36.txt t44.txt t52.txt t60.txt t69.txt t77.txt t85.txt t93.txt vimfile.txt
t12.txt t20.txt t29.txt t37.txt t45.txt t53.txt t61.txt t6.txt t78.txt t86.txt t94.txt
[root@server d2]# rm -f t7.txt
[root@server d2]# ls
1.txt t13.txt t22.txt t31.txt t40.txt t49.txt t58.txt t67.txt t76.txt t85.txt t94.txt
a.txt t14.txt t23.txt t32.txt t41.txt t50.txt t59.txt t68.txt t77.txt t86.txt t95.txt
catfile.txt t15.txt t24.txt t33.txt t42.txt t51.txt t60.txt t69.txt t78.txt t87.txt t96.txt
mixed.txt t16.txt t25.txt t34.txt t43.txt t52.txt t61.txt t70.txt t79.txt t88.txt t97.txt
t100.txt t17.txt t26.txt t35.txt t44.txt t53.txt t62.txt t71.txt t80.txt t89.txt t98.txt
t10.txt t18.txt t27.txt t36.txt t45.txt t54.txt t63.txt t72.txt t81.txt t90.txt t99.txt
t{1..100}.txt t19.txt t28.txt t37.txt t46.txt t55.txt t64.txt t73.txt t82.txt t91.txt touchfile.txt
t11.txt t20.txt t29.txt t38.txt t47.txt t56.txt t65.txt t74.txt t83.txt t92.txt vimfile.txt
t12.txt t21.txt t30.txt t39.txt t48.txt t57.txt t66.txt t75.txt t84.txt t93.txt
[root@server d2]# rm -f t77.txt
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt t100.txt t{1..100}.txt touchfile.txt vimfile.txt
[root@server d2]#
```

Removing all the files that starts with the letter 't'.

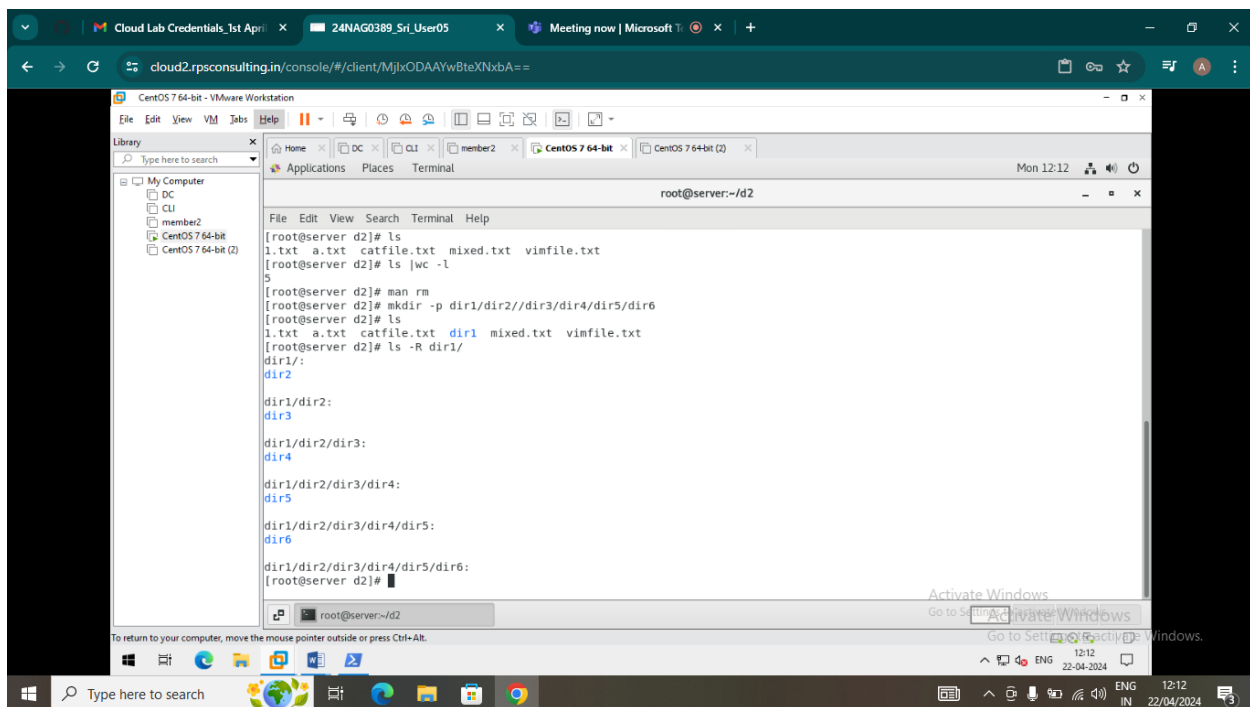


The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running commands to remove files starting with 't'. The commands and their outputs are as follows:

```
root@server:~/d2
File Edit View Search Terminal Help
[root@server d2]# rm -f t*.txt
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt vimfile.txt
[root@server d2]# ls |wc -l
5
[root@server d2]#
```

The terminal window is titled "CentOS 7 64-bit" and the host is "member2". The system clock shows "Mon 11:57" and "22-04-2024".

Counting the number of files.



The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running commands to count files and create a directory structure. The commands and their outputs are as follows:

```
root@server:~/d2
File Edit View Search Terminal Help
[root@server d2]# ls
1.txt a.txt catfile.txt mixed.txt vimfile.txt
[root@server d2]# ls |wc -l
5
[root@server d2]# man rm
[root@server d2]# mkdir -p dir1/dir2//dir3/dir4/dir5/dir6
[root@server d2]# ls
1.txt a.txt catfile.txt dir1 mixed.txt vimfile.txt
[root@server d2]# ls -R dir1/
dir1/:
dir2

dir1/dir2:
dir3

dir1/dir2/dir3:
dir4

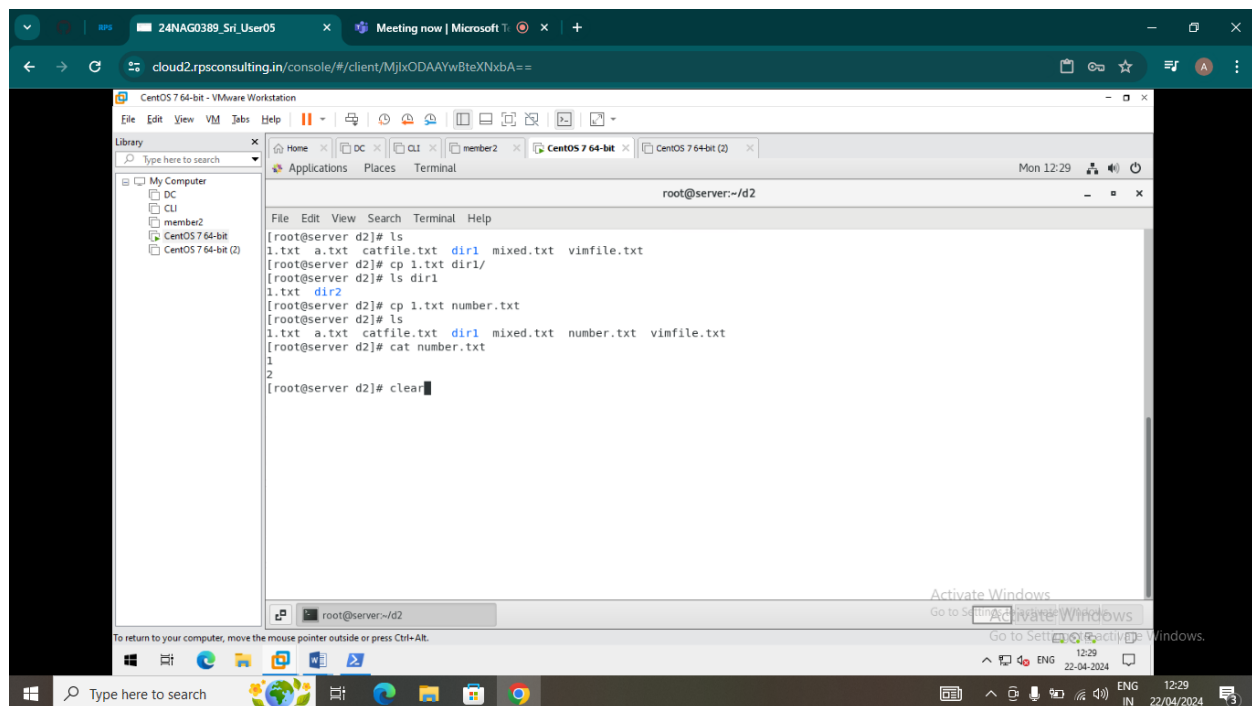
dir1/dir2/dir3/dir4:
dir5

dir1/dir2/dir3/dir4/dir5:
dir6

dir1/dir2/dir3/dir4/dir5/dir6:
[root@server d2]#
```

The terminal window is titled "CentOS 7 64-bit" and the host is "member2". The system clock shows "Mon 12:12" and "22-04-2024".

Copying the file using “cp” command.

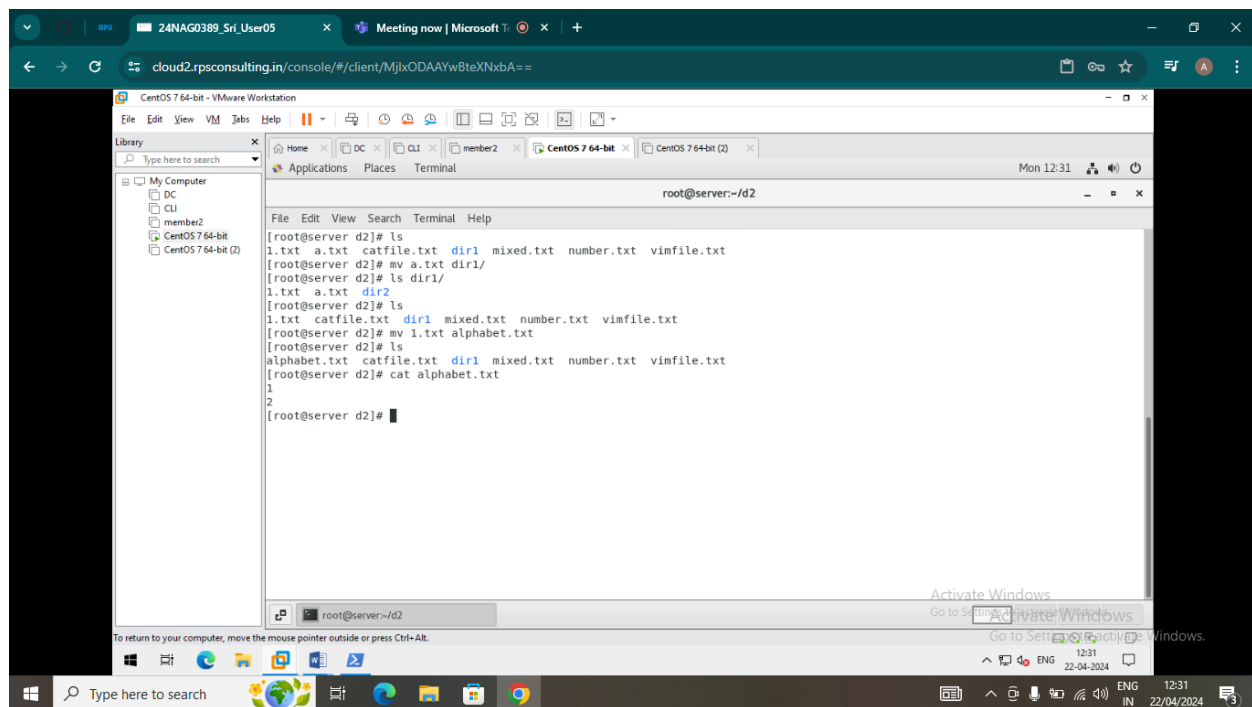


The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running a series of commands to copy files. The host is 'root@server:~/d2'. The commands and their outputs are as follows:

```
[root@server d2]# ls
1.txt a.txt catfile.txt dir1 mixed.txt vimfile.txt
[root@server d2]# cp 1.txt dir1/
[root@server d2]# ls dir1
1.txt
[root@server d2]# cp 1.txt number.txt
[root@server d2]# ls
1.txt a.txt catfile.txt dir1 mixed.txt number.txt vimfile.txt
[root@server d2]# cat number.txt
1
2
[root@server d2]# clear
```

The terminal window is titled 'CentOS 7 64-bit - VMware Workstation'. The VMware interface shows a library on the left with 'My Computer' expanded, listing 'DC', 'CLI', 'member2', 'CentOS 7 64-bit', and 'CentOS 7 64-bit (2)'. The top of the window shows a browser tab for 'cloud2.rpsconsulting.in/console/#/client/MjlxODAAAYwBteXNxbA=='. The bottom of the window shows a Windows taskbar with the search bar and several application icons.

Moving data from one file to another file using “mv”

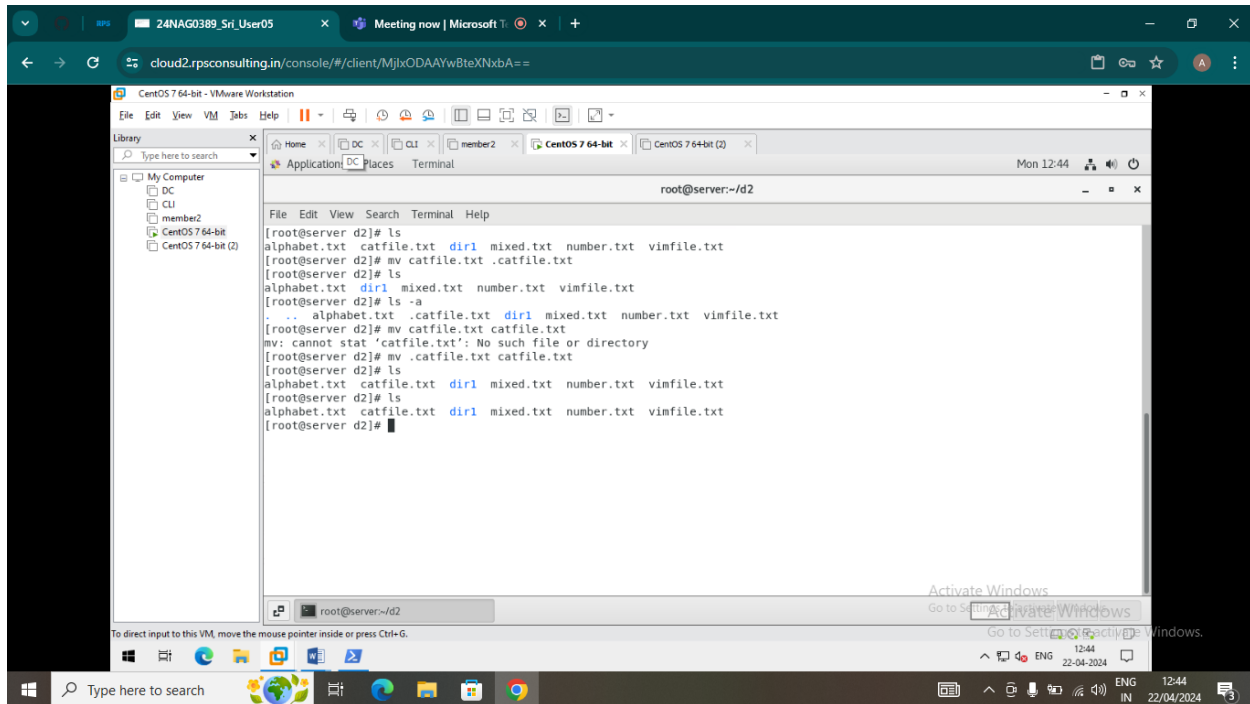


The screenshot shows a VMware Workstation interface with a terminal window open. The terminal is running a series of commands to move files. The host is 'root@server:~/d2'. The commands and their outputs are as follows:

```
[root@server d2]# ls
1.txt a.txt catfile.txt dir1 mixed.txt number.txt vimfile.txt
[root@server d2]# mv a.txt dir1/
[root@server d2]# ls dir1/
1.txt a.txt
[root@server d2]# ls
1.txt catfile.txt dir1 mixed.txt number.txt vimfile.txt
[root@server d2]# mv 1.txt alphabet.txt
[root@server d2]# ls
alphabet.txt catfile.txt dir1 mixed.txt number.txt vimfile.txt
[root@server d2]# cat alphabet.txt
1
2
[root@server d2]#
```

The terminal window is titled 'CentOS 7 64-bit - VMware Workstation'. The VMware interface shows a library on the left with 'My Computer' expanded, listing 'DC', 'CLI', 'member2', 'CentOS 7 64-bit', and 'CentOS 7 64-bit (2)'. The top of the window shows a browser tab for 'cloud2.rpsconsulting.in/console/#/client/MjlxODAAAYwBteXNxbA=='. The bottom of the window shows a Windows taskbar with the search bar and several application icons.

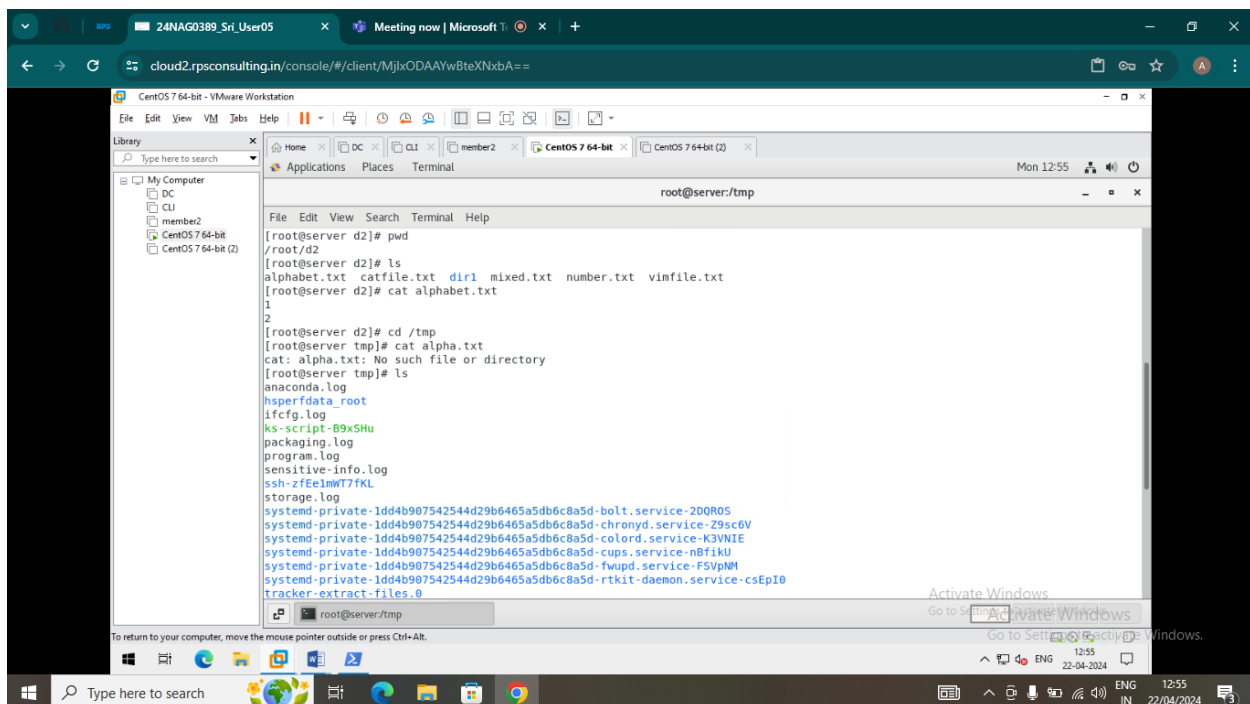
Hiding and unhiding file



The screenshot shows a terminal window within a VMware Workstation environment. The terminal is running on a CentOS 7 64-bit VM. The user is root at server d2. The terminal output shows the following commands and results:

```
root@server d2# ls
alphabet.txt  catfile.txt  dir1  mixed.txt  number.txt  vimfile.txt
root@server d2# mv catfile.txt .catfile.txt
root@server d2# ls
alphabet.txt  dir1  mixed.txt  number.txt  vimfile.txt
root@server d2# ls -a
.  ..  alphabet.txt  .catfile.txt  dir1  mixed.txt  number.txt  vimfile.txt
root@server d2# mv catfile.txt catfile.txt
mv: cannot stat 'catfile.txt': No such file or directory
root@server d2# mv .catfile.txt catfile.txt
root@server d2# ls
alphabet.txt  catfile.txt  dir1  mixed.txt  number.txt  vimfile.txt
root@server d2# ls
alphabet.txt  catfile.txt  dir1  mixed.txt  number.txt  vimfile.txt
root@server d2#
```

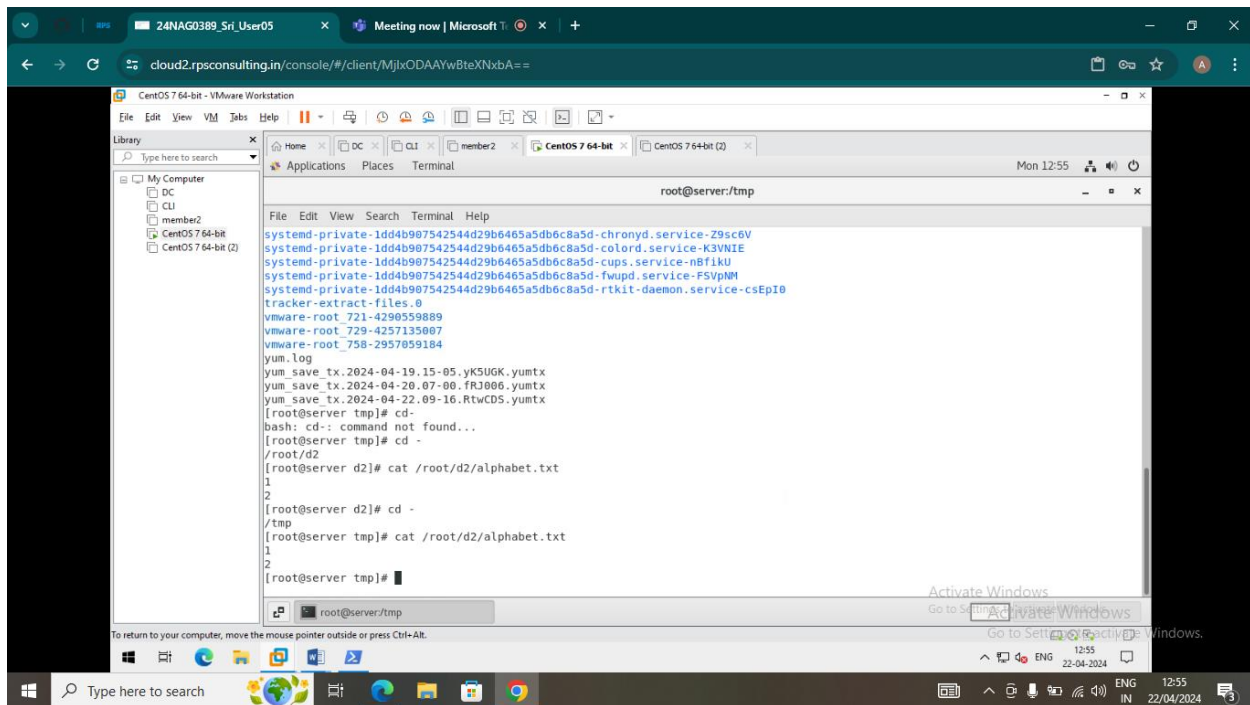
Creating temporary files



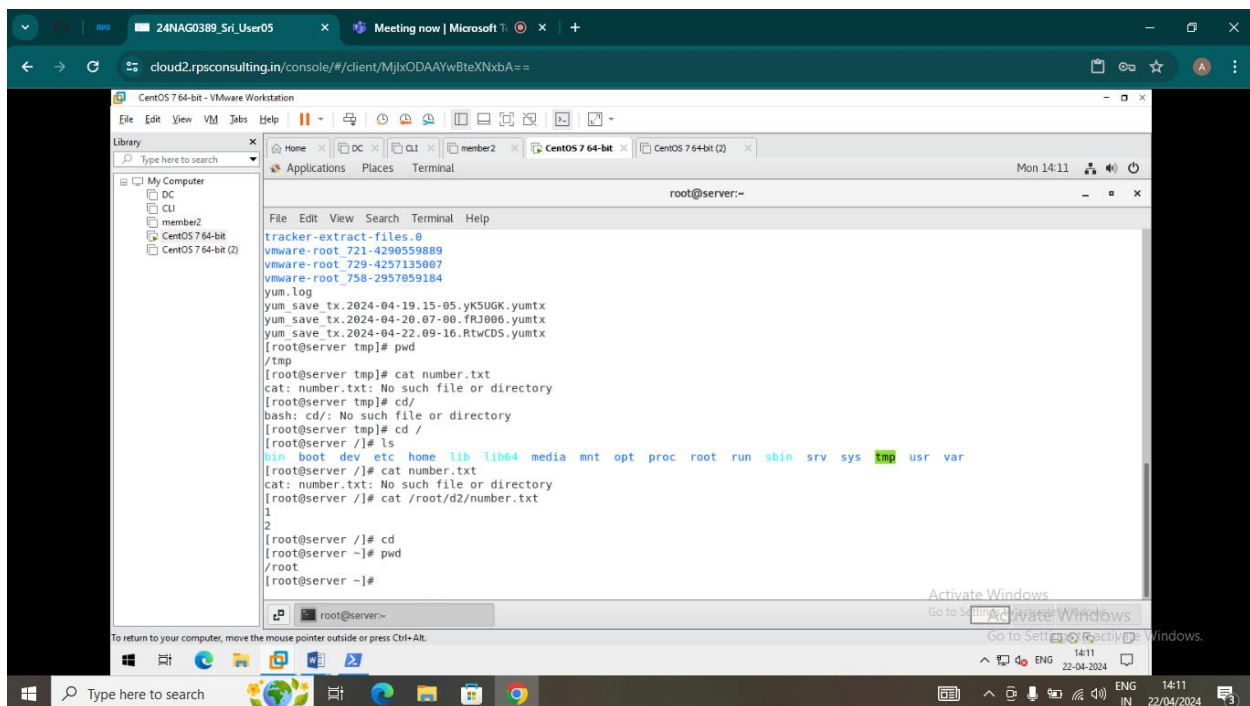
The screenshot shows a terminal window within a VMware Workstation environment. The terminal is running on a CentOS 7 64-bit VM. The user is root at server tmp. The terminal output shows the following commands and results:

```
root@server tmp# pwd
/root/d2
root@server tmp# ls
alphabet.txt  catfile.txt  dir1  mixed.txt  number.txt  vimfile.txt
root@server tmp# cat alphabet.txt
1
2
root@server tmp# cd /tmp
root@server tmp# cat alpha.txt
cat: alpha.txt: No such file or directory
root@server tmp# ls
anaconda.log
hspcrdata_root
lfcfg.log
ks-script-B9xSHu
packaging.log
program.log
sensitive-info.log
ssh-zfEelnW7fKL
storage.log
systemd-private-1dd4b907542544d29b6465a5db6c8a5d-bolt.service-2D0R05
systemd-private-1dd4b907542544d29b6465a5db6c8a5d-chronyd.service-29sc6V
systemd-private-1dd4b907542544d29b6465a5db6c8a5d-colord.service-K3VNIE
systemd-private-1dd4b907542544d29b6465a5db6c8a5d-cups.service-nBfiku
systemd-private-1dd4b907542544d29b6465a5db6c8a5d-fwupd.service-FSVpNM
systemd-private-1dd4b907542544d29b6465a5db6c8a5d-rtkit-daemon.service-csEpI0
tracker-extract-files.0
root@server tmp#
```

Displaying the data inside a file using path



Displaying a file using an entire path



Creating a file inside a folder and deleting that specific file from that folder using path

