**Working with a Vi Editor:**

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1: Create a file using vi. Enter the following text:

A network is a group of computers that can communicate with each other, share

resources, and access remote hosts or other networks. Netware is a computer network

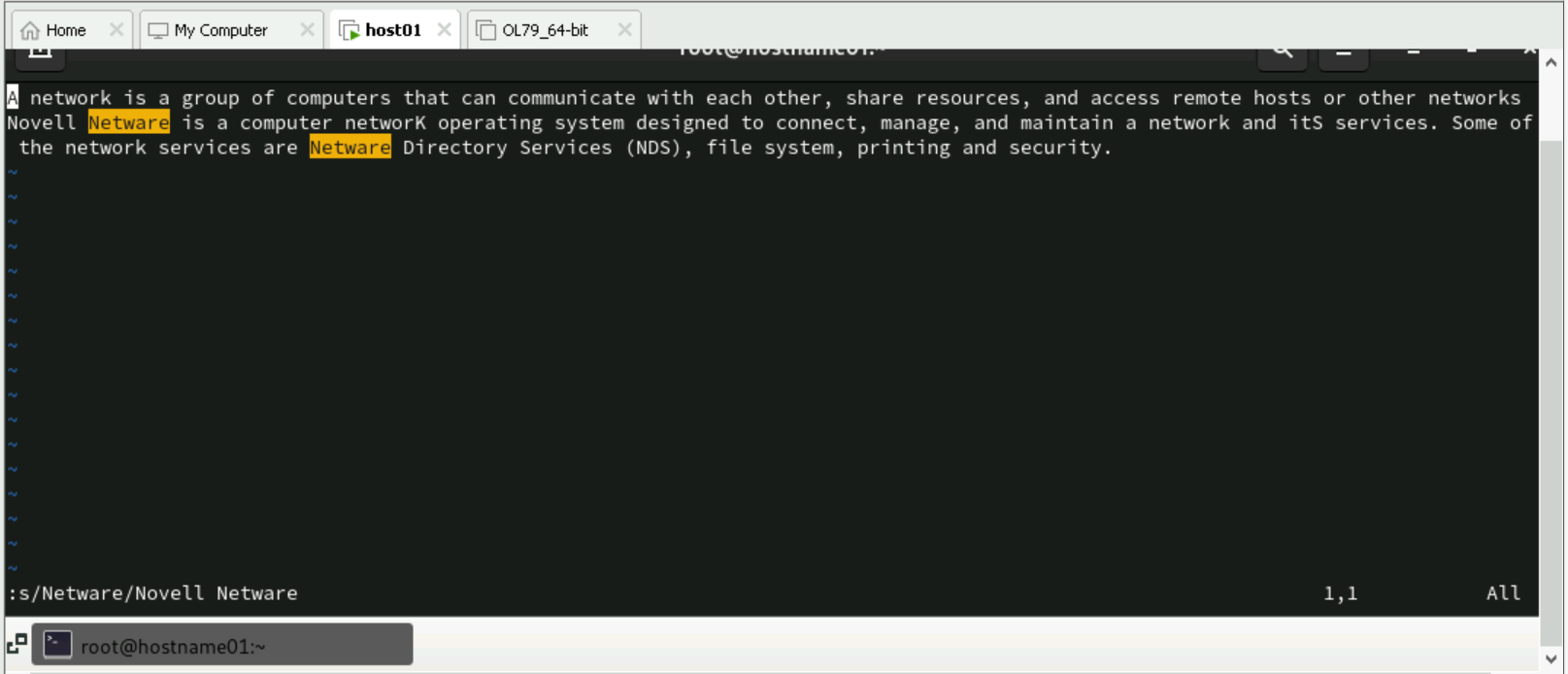
operating system designed to connect, manage, and maintain a network and its

services. Some of the network services are Netware Directory Services (NDS), file

system, printing and security.

1. Change the word “Netware” in the second line to “Novell Netware”.

:s/Netware/Novell Netware



b. Insert the text “(such as hard disks and printers)” after “share resources” in the

first line.

:s/& such as hard disks and printers

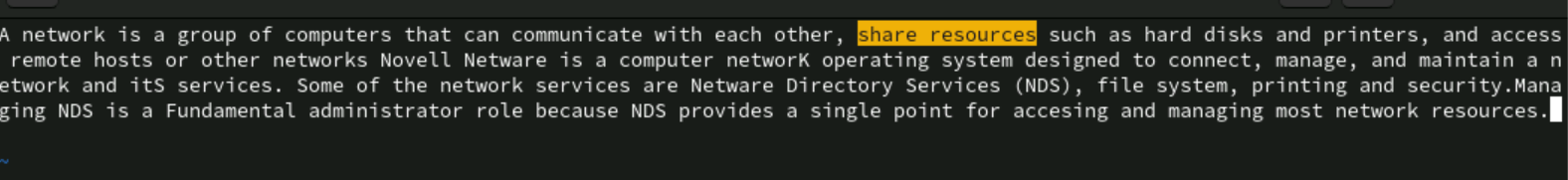
A screenshot of a computer

Description automatically generated

c. Append the following text to the file:

“Managing NDS is a fundamental administrator role because NDS provides a single

point for accessing and managing most network resources.”



Ans

**1.Open the Vim file**

**2.Move To the end of the file using Shift+G**

**3. Press A to Append to the end of the current line or o to open new line below current line.**

**4.Add The text or copy paste it**

**5.Press esc to return and save the file using :wq.**

Working shell

1. Type some text on the shell separated by space

1: Move cursor one word back

**Ans.** **Ctrl + Left Arrow or b in Vim**

2: Move cursor one word forward

**Ans . Ctrl + Right Arrow or w in Vim**

3: Move cursor to the first character

**Ans**. **Ctrl+a**

4: Move cursor to the end

Ans. **Ctrl+e**

5: Delete test from second word to last character

**Ans. To delete text from the second word to the last character in a line in a Vim , you can use the following command in normal mode:**

1. **Place the cursor on the first word of the line.**
2. **Enter normal mode by pressing Esc.**
3. **Use the command dw$**

6: Delete the current line

**Ans. dd**

2: In lab 4 we have created a file errorlog.txt. Display it using cat command using

command completion.

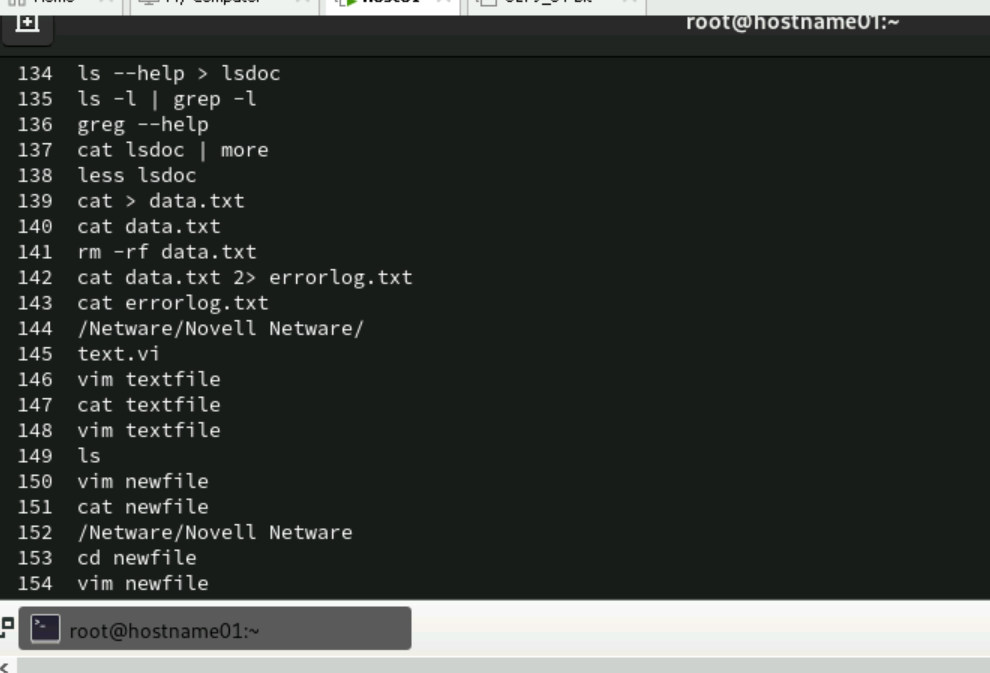
**Ans.**

**To display the contents of the errlog.txt file using the cat command with command completion , follow these steps**

1. **Open Terminal**
2. **Start Typing the Command**
3. **cat err**
4. **Press Tab key to complete the filename . Find the file name errlog.txt**
5. **Press Enter To execute the command.**

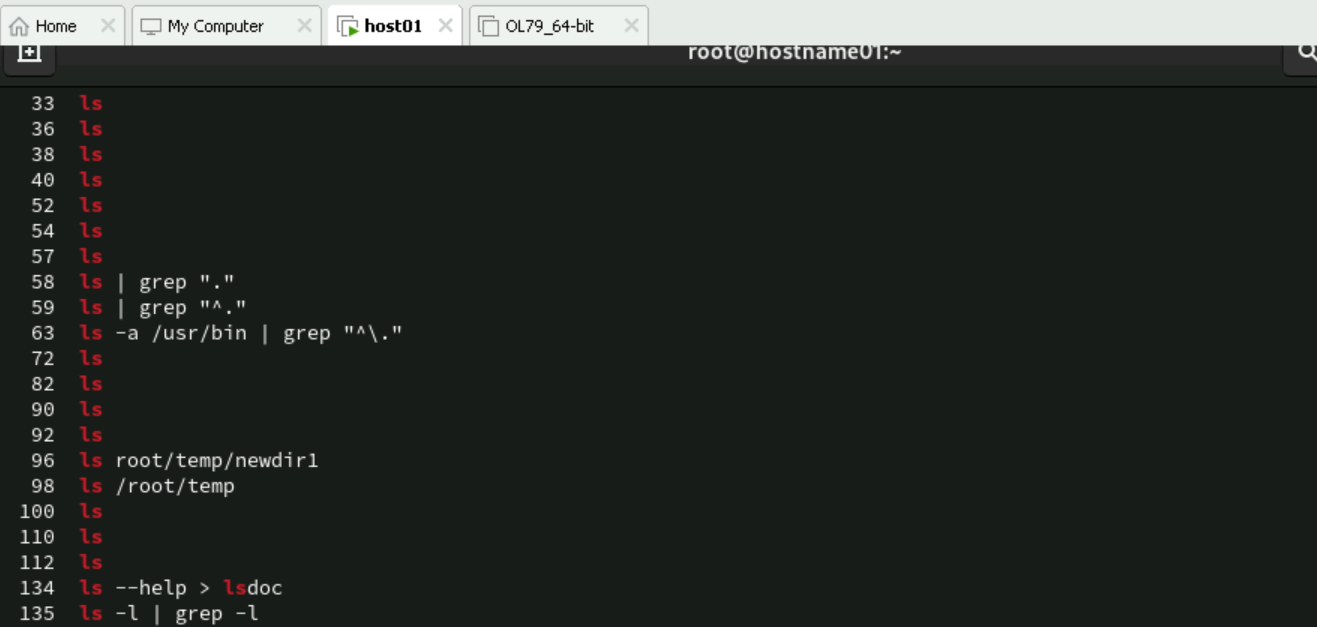
**The full command is : cat errlog.txt**

3: Display history of command used so far.



4: Search ls command in history file

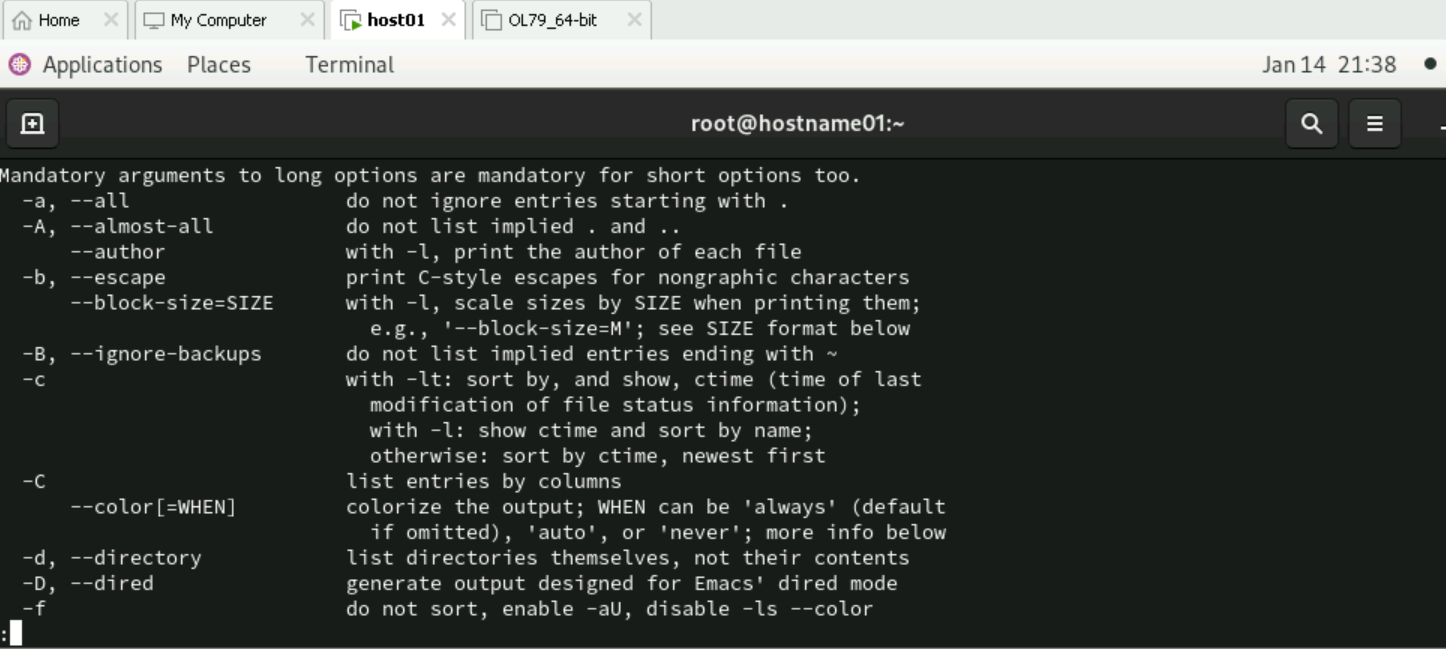
Ans. history | grep ls



5: Repeat the last command rd

6: Execute 3 command from history file.

Ans . less lsdoc

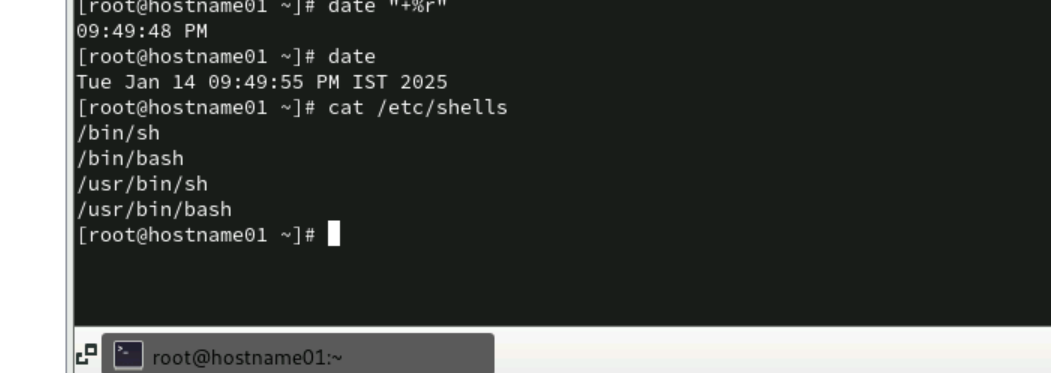


A black screen with white text

Description automatically generated

7: What are the different shells available.

**Ans : cat /etc/shells**



Understanding access permissions

7.1: Create an empty file “demofile” and perform following instruction

1. Revoke read permission from owner and use cat command

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2. Revoke write permission from owner and open using vi

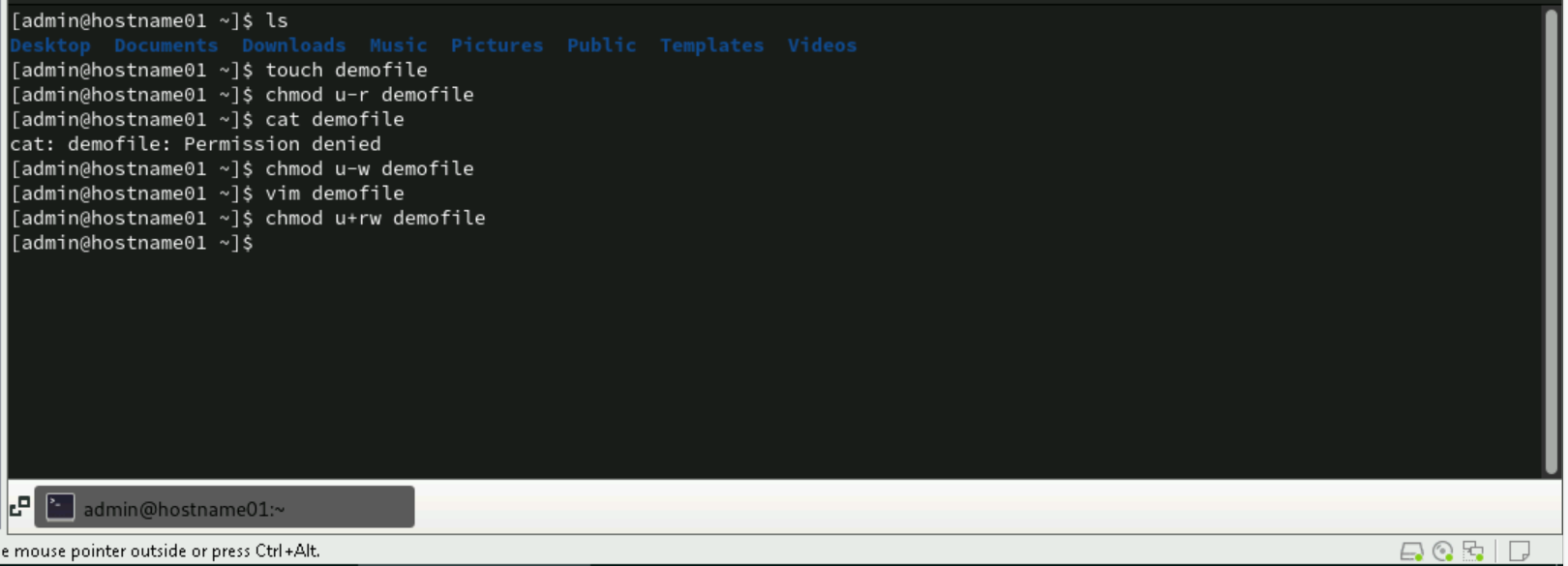
editor and add some contain in it.

A screen shot of a computer

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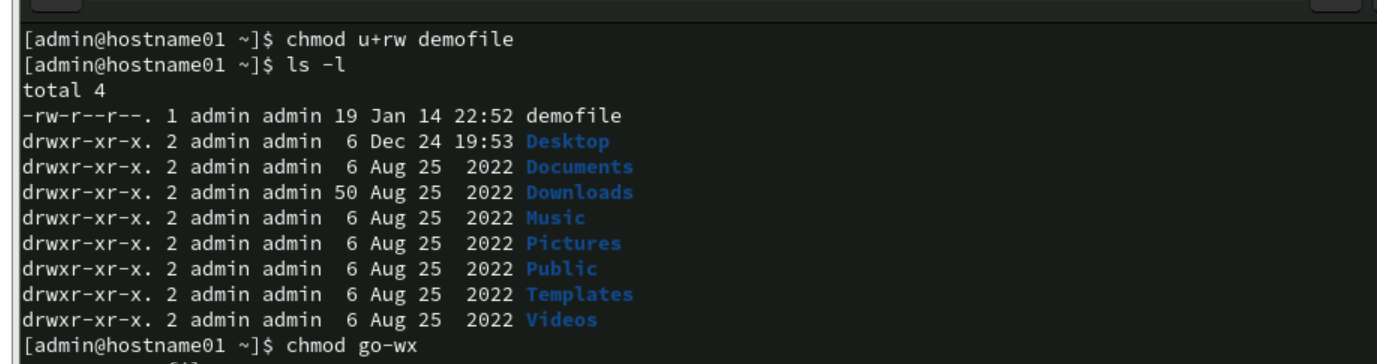
1. Add read and write permission to owner.

**chmod u+rw demofile**



1. Revoke write and execute from other and group

**chmod u+rw demofile**



1. Add write permission to group only

**chmod go-wx**

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1. Assign read permission to all

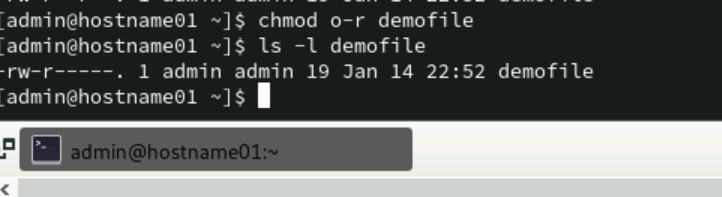
**chmod a+r demofile**

A screenshot of a computer

Description automatically generated

1. Revoke read permission from others

**chmod o-r demofile**



8. Give the execute permission for the user for a file chap1

**Ans. chmod u+x chap1**

1. Give the execute permission for user, group and others for a file add.c

**Ans. chmod a+x add.c**

10. Remove the execute permission from user, give read permission to

group and others for a file aa.c

**Ans. chmod u-x,go+r aa.c**

11. Give execute permission for users for a.c, kk.c, nato and myfile using

single command

**Ans. chmod u+x a.c kk.c nato myfile**

7.2: Create an directory “demo” and copy /etc/passwd file in it

A screenshot of a computer

Description automatically generated

1. Display contents of demo

**Ans ls demo**

2. Revoke read permission from demo directory and use ls

command on it

**Ans.** **chmod -r demo**

**ls demo**

3. Revoke write permission from demo directory and try to copy

/etc/profile file in it

**Ans.** **chmod -w demo**

**cp /etc/profile demo/**

4. Delete passwd file from demo directory

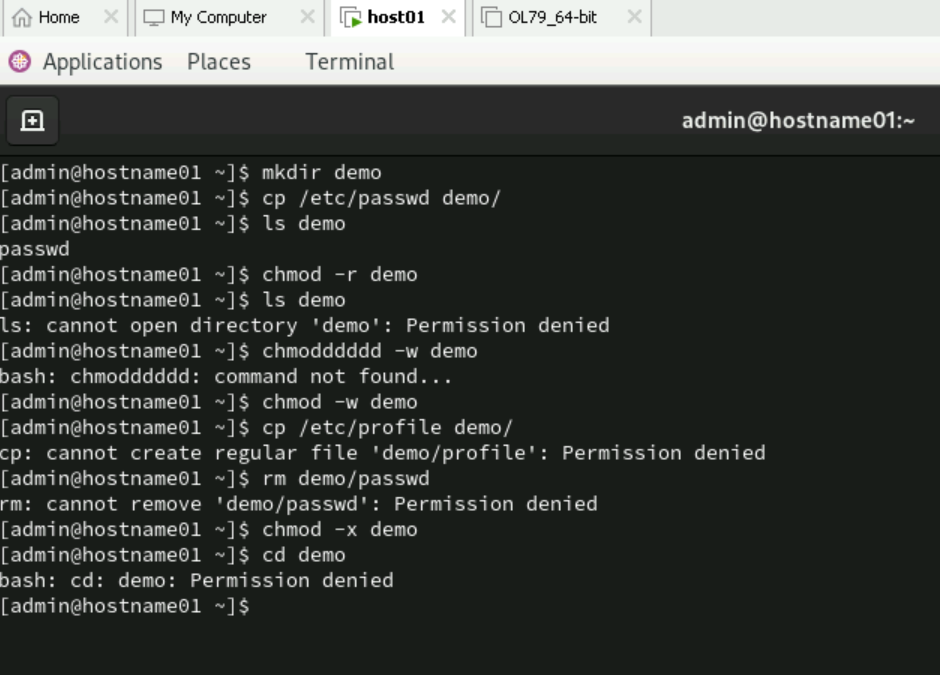
**rm demo/passwd**

5. Revoke execute permission from demo directory and try cd

command on demo.

**chmod -x demo**

**cd demo**

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**Using Process-Related Commands**

1. Find out the PID of the processes that are activated by you

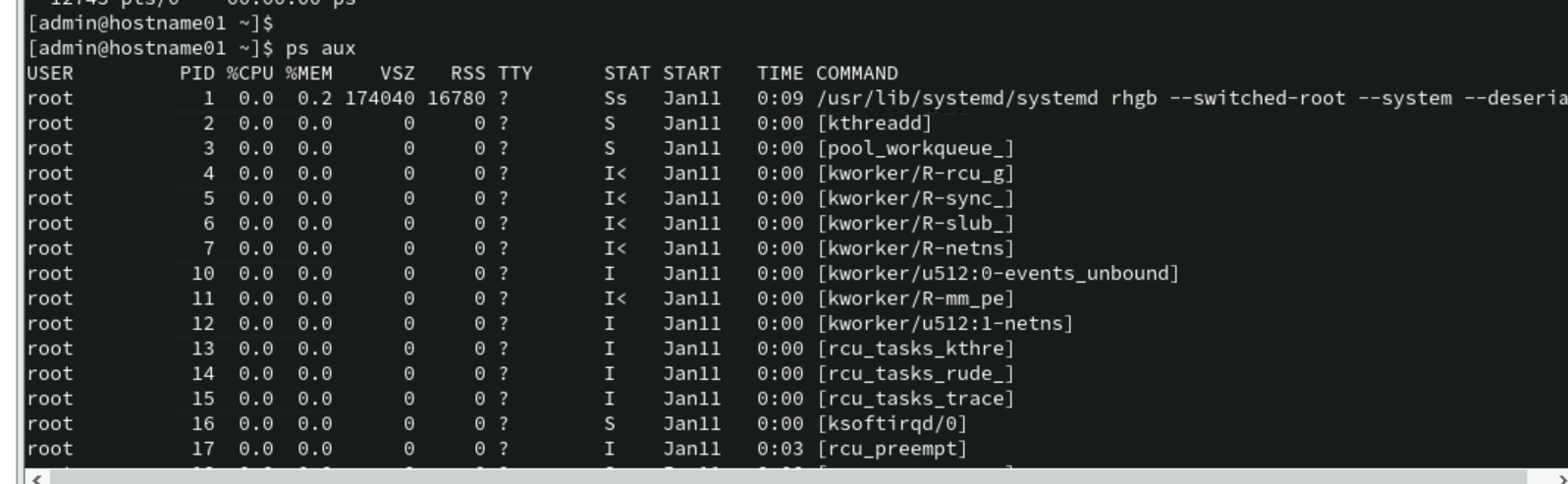
**ANS . ps -u $USER**

A screenshot of a computer program

Description automatically generated

1. Find out the information about all the processes that are currently active

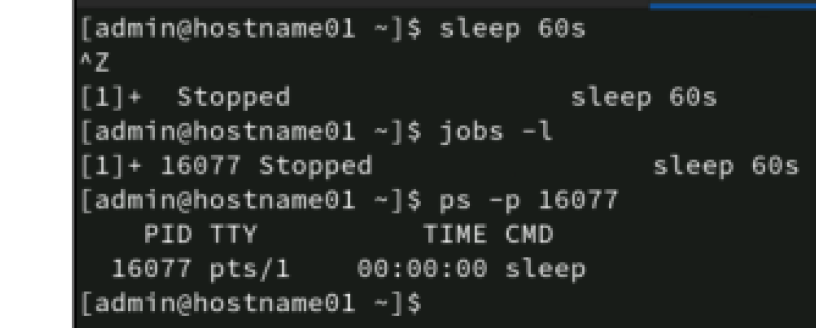
**ANS . ps aux**

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3. Start a different process in the background. Find out the status of the background

process using the PID of the same.

**ANS .**

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4.Run a job in background A computer screen shot of a black screen

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5.Bring a last background job in fore ground

A black screen with white text

Description automatically generated

1. Run 3 jobs in background and bring first job in foreground

A computer screen with white text

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7. Stop current job

**ANS . Ctrl+z**

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Description automatically generated

8. Start stopped job

**ANS . fg %2**

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9. Run a job

Sleep 300 (In Foreground)

Sleep 300& (In Background)

10. Kill last job

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Description automatically generated

11. Kill your shell using process id

**Ans.1. Find the pid:echo $$**

**Ans.2.kill the shell :kill-9 pid**

12. Execute a ls command by setting priority as -10 using nice command

**Ans .sudo nice -n -10 ls**

13. Display a date on every hour using cron tab

