1- Change the hostname of your servers.

one server should be server1 and the other client1

***#hostnamectl set-hostname server1***

***#hostnamectl set-hostname client1***

***I could use nmtui***

---All of the activity below is done on server1

2- Make sure the language and keyboard settings are correct (set to en\_US.UTF-8 and US respectively)

#localectl

**Note:**

**localectl set-locale LANG=en\_US.UTF-8 (will set the LANG to en\_US.UTF-8)**

3- touch a file in the /etc/skel directory

#touch /etc/skel/file1

4- Create a group called students

#Groupadd students

5- Create 4 users student1 student2 student3 and

student4 using a for loop. Make sure all four users

are members of group students.

**#for x in student1 student2 student3 student3**

**do**

**useradd -G students $x**

**done**

6- create a file named file1 with SUID bit set

in student1 home directory

#touch ~student1/file1

#chmod 4755 ~student1/file1

7- Create a directory named /shared with SGID bit set

Ensure the group ownership is students.

That is the group you created in question 4

#mkdir /shared

#chgrp students /shared

#chmod 2775 /shared

8- Create a directory named /common with Sticky bit set.

#mkdir /common

#chmod 1777 /common

9- Create a partition and mount it on /mnt/shared

-- make it 500M in size

-- make sure the directory you created earlier in #7

is linked to /mnt/shared

fdisk /dev/sdc

n

p

+1G

10- lslogins |awk '$4=="1" {print $0}'

what will this command do

11- Change Server1 timezone to Europe/Berlin

12- find all the files with SUID bit set and put the

list of filenames in a file.

13- mailx -s "testing" john.smith@gmail.com </etc/fstab

what is this command doing

14- systemctl set-default graphical.target

what will the above command do

15- Explain the following run levels

|  |  |  |
| --- | --- | --- |
| **SysVinit Runlevel** | **systemd Target** | **Description** |
| 0 | poweroff.target |  |
| 1 | rescue.target |  |
| 2 | runlevel2.target |  |
| 3 | runlevel3.target |  |
| 4 | multi-user.target |  |
| 5 | graphical.target |  |
| 6 | reboot.target |  |

16- How do you determine the current run level of your system?

17- Explain the following command

#cat /etc/passwd |nl |sed –n 5,10p

How about

#cat /etc/passwd |sed ‘s/root/bkroot/g’ >/etc/bk\_root.edited

18- What command will you run to verify which Service took the longest to start after the system reboot

19- How would check your yesterday’s system performance

20-Restrict user james from using Cron

21- Are ifconfig, fdisk, parted, shutdown and grub-install present in /sbin ? Why are these binaries in /sbin and not in /bin ?

New questions

22- How do you determine that rpm for the command nmap

23-You have the following entries in /etc/hosts.allow and /etc/hosts.deny

What do those two entries tell us

hosts.allow