Day1  
1)what is sudo?  
2)what is the Configuration file for sudoers?  
3)what is mean byvisudo?  
4)how to give sudo access to a user?  
5)how to grant sudo access to users, without passwd?  
6)what is different b/w su - and su?  
7)how to grant a sudo access to a group?  
8)how to know full path of a cmd?  
9)how to give access to users to execute ifconfig cmd?  
10)difference between su and sudo?

Day2  
1)how to know current runlevel?  
2)how to know previous runlevel?  
3)what is configaration file of a runlevel?  
4)how many runlevels we have in linux?  
5)what is difference 2 and 3 Runlevel?  
6)how to change the runlevel temporary,permanently  
7)where we can find the Startup scripts?  
8)what isinode?  
9)how to see inode number for a file anddirectory?  
10)difference between softlink and hardlink?  
11)how to create softlink and hardlink?  
12)how to create hard link?  
13)how to remove softlink, hardlink?  
14)how to start a service?  
15)what is chkconfig?  
16)how to list the runlevel information of all services?  
17)how to ON a service using chkconfig cmd?  
18)how to add htpd service on runlevel 3 ?  
19)how to add services on multiple runlevel?  
20)how to see memory info/cpu info ?  
21)what is demon?

Day3  
###### Basic commands ######  
1) how to cheek system is virtual server or physical server ?  
2)how to reboot a system?  
3)how to shutdown a system?  
4)how to reboot a system with shutdown cmd?  
5)how to see the host name of server?  
6)how to see kernal version of a server ?  
7)how to see RED HAT version?  
8)how to create a file?  
9)how to see content of a file?  
10)how to see ip address of a server or how to see all internet card information  
11)how to edit a file?  
12)how to list the files and directories?  
13)how to check present working directory?  
14)how to create a directory?  
15)how to see user’s id informagtion?  
16)user information how to we see ?  
17)how to see bottom content of a file?  
18)how to see the content of a file page by page?  
19)how to see top ten-lines of a file?  
20)how to copy the content of a file?

ANSWERS:

1 dmidecode -s system-manufacturer

2 init 6

3 init 0

4 shutdown now

5 hostname

6 uname –r

7 hostnamectl | grep Kernel OR cat /etc/\*release

8 touch /file\_name

9 cat /file\_name

10 ip r OR ifconfig -a

11 vi OR vim OR nano /file\_name

12 ls -ltrh

13 pwd

14 mkdir /dir\_name

15 id user\_ID

16 lslogins -u user\_ID

17 -5 /file\_name

18 more OR less /file\_name

19 -10 /file\_name

20 /source\_file\_name

Day4  
  
###########  
du,grep,ssh,find,rsync,scp,tar,gzip,bzip  
###########  
1)how to see disk usage of file/directory?  
2)how to see disk usage in MB,GB,KB?  
3)what is grep?  
4)what is egrep  
5)what is -i in grep command ?  
6)how to search one patter or two patterns using grep?  
7)what is -e in grep command ?  
8)how to see mounted file system?  
9)how to see output of a mounted file system?  
10)how to connect to server?  
11)how to find the file called ravi under /var/log?  
12)how to display the files more then 2mb?  
13)how to display the files which are morethan 10 mb and lessthen 30mb?  
14)how to display the files which are modified in last 10 days?  
15)what is Rsync?  
16)d/b Rsync and scp?  
17)how to rename a file?  
18)how to create a file?  
19)how to create a gzip file?  
20)how to extract gunzip file information?  
21)how creat bunzip file?  
22)how to extract bunzip filea?  
23)how to see content of a tar file?

ANSWERS:

1 du -sh \*

2 df –h

3 tool used to search for a string of characters in a specified file

4 It uses extended regular expression and in this you can use commands like this egrep 'a|b'

5 Ignore case distinctions in patterns and input data, so that characters that differ only in case match each other

6 grep -- 'foo\*'\''bar' /path\_to\_file

7 search for all patterns given. This option can be used to protect a pattern beginning with “-”

8 findmnt

9 cat /etc/fstab

10ssh user@IP\_address

11 find /var/log -name ravi

12 find /path\_to\_dir -size +2M

13 find /path\_to\_dir -size +10M -size -30M

14 find /path\_to\_file -type f -mtime -30 -exec ls -l {} \;

15 tool that lets you transfer files and directories to local and remote destinations

16 RSYNC: copy the contents of the source folder into dest\_folder | SCP: Copy one single local file to a remote destination

17 mv file\_name file\_new\_name

18 touch /path\_to\_file OR vim /path\_to\_file OR nano /path\_to\_file

19 gzip /file\_name

20 gunzip /file\_name.gz

21 bzip filename( Not sure never worked on bunzip )

22 bunzip filename.bz( Not sure never worked on bunzip )

23 tar -Oxvf /path\_to\_file.tar.gz /path\_to\_file.txt | less

Day5  
#####[#Permissions](https://www.linkedin.com/feed/hashtag/?keywords=permissions&highlightedUpdateUrns=urn%3Ali%3Aactivity%3A6771274846639943680) and umask########  
1)what is default permissions for s file and directory?  
2)how to change the permission for file to 755?  
3)how to change the permission for a directoer and it contents 755?  
4)how to change the owner of a directory oracle to uday?  
5)how to change the group of a file?  
6)how to change the group and owner?  
7)how to change ownership for a file and it contents?  
8)what is umask ?  
9)how to know umask value?  
10)how to change umask value perminantly, temperarly?  
11)what is difference ssh and telnet?  
12)where we can see the default port numbers?  
13)if root is unable to login to server,what could be the reasion?  
14)config file of ssh?  
15)ssh port nmber?  
16)sshd main content?  
17)how to generate a ssh key?  
18)how many types of algorithms?  
19)where we can find private key and public key?

Day6  
  
##### special permissions ######  
  
1)what is net?  
2)how to see current acl information on a directoery?  
3)how to set Acl on directory /icinga mant point for the user oracle account  
With rwx permissions?  
4)how to set acls for multiple users?  
5)how to set aclson file for the user ravindra with rwx ermissions?  
6)how to remove all acls on a directory / file?  
7)how to remove acls for a perticular user?  
8)how to check acls are enabled or not on a directoery?  
9)what is stickybit?  
10)on which directory sticky bit enabled by default?  
11)how to set a strickybit on a file / directory?  
12)d/b 't' and 'T' in strickybit options?  
13)what is suid?  
14)how can you check suid enabled or not on files/directory?  
15)how to set suid on a file /directory?

ANSWERS:

1 did not get the question

2 getfacl /path\_of\_file\_OR\_dir

3 setfacl -m u:oracle:rwx /icinga

4 setfacl -m u:user1:rwx,u:user2:rwx,u:user3:rwx /path\_of\_dir

5 setfacl -m u:ravindra:rwx /path\_to\_file

6 setfacl -d /path\_to\_file\_OR\_dir

7 setfacl -x u:user\_name /path\_to\_file\_OR\_dir

8 getfacl /path\_of\_file\_OR\_dir

9 If Sticky bit is enabled on a folder, the folder contents are deleted by only owner who created them and the root user no one else can delete other users data in this folder(Where sticky bit is set

10 /tmp

11 chmod +t /path\_of\_file\_OR\_dir

12 t: can execute but not delete from "others" dir | T: no execute permission for "others"

13 giving temporary permissions to a user to run a program/file with the permissions of the file owner rather that the user who runs it

14 find / -user root -perm -4000 -exec ls -ldb {} \

15 chmod u+s /path\_of\_file\_OR\_dir OR chmod 4750 /path\_of\_file\_OR\_dir

Day7  
###### user management - part1 ######  
1)what is the configuration file of user management?  
2)how many fields in /etc/shadow and what are they?  
3)how many fields in /etc/passwd and what are they?  
4)how many fields in /etc/group and what are they?  
5)how to create a user?  
6)how to set a passwd for user?  
7)how to see passwd information of a user?  
8)what are different cmd's to see the user information?  
9)how to delete a user?  
10)how to delete a user with home directory?  
11)how to delete a user along with home directory, shell, comment, primary group, secondary group?  
12)how to change the user information?  
13)how to change user name?  
14)how to change the uid of a user?  
15)how to change home directory?

ANSWERS:

2 9 fields | 1.Username, 2.Encrypted password, 3. Date of last password change, 4.Minimum required days between password changes, 5.Maximum allowed days between password changes, 6.Number of days in advance to display password expiration message, 7.Number of days after password expiration to disable the account, 8.Account expiration date, 9.Reserve field.

3 7 fields | 1.Username, 2.Password, 3.User ID (UID), 4.Group ID (GID), 5.User ID Info, 6.Home directory, 7.Command/shell.

4 4 field | 1.group\_name, 2. Password, 3.Group ID (GID), 4.Group List.

5 useradd -m -d /home/user\_name -s /bin/bash -c 'Comment' -U user\_name.

6 passwd user\_name.

7 /etc/passwd.

8 id user\_name OR getent passwd OR cat /etc/passwd OR lslogins user\_name OR compgen –u.

9 userdel user\_name.

10 userdel -r user\_name.

11 delete from /etc/passwd and delete from /etc/shadow.

12 chfn user\_name.

13 usermod -l new\_user\_id old\_user\_id.

14 usermod -u UID user\_name.

15 usermod -m -d /path\_to\_new\_home\_dir user\_name.

Day8  
###### user management -part2 ######  
15)how to change home directory?  
  
16)how to change shell?  
  
17)how to change comment for user  
  
18)how to lock the user?  
  
19)how to unlock the user?  
  
20)how to know the current shell of user?  
  
21)how to change the user passwd expire information?  
  
22)how to see the user passwd informaion?  
  
23)how to change the minimum number of days require to change passwd to 7 days?  
  
24)how to set change the maximum no.of days between passwd change 90 days?  
  
25)how to set the no. of days of warning before passwd expire 10 days?  
  
26)how to set after how many user account should be inactive once the passwd expire?  
  
27)how to set expire information for a user account?  
  
28)how to set account expire never?  
  
29)how to change the priamry group of a user?  
  
30)how to change the secondary group of a user?  
  
31)how to add a another second group for a user?  
  
32)if a user unable to login,what are things you can check ?

Day9  
######## crontab #########  
1)what is crontab?  
2)what is configuration file of crontab?  
3)what is service of crontab?  
4)how to see current cronjobs of a user?  
5)how to see cronjobs for perticular user?explane oracle user?  
6)how to add entries in crontab?  
7)what are the fields in crontab?  
8)how to run a job every minut?  
9)how to schedule a job all days in weel except thursday and friday?  
10)how to run a script every hour,at 0 minuts,30 minuts?  
11)how to schedule a job to run 3.30 qnd 5.30?  
12)how to schedule a job every 10 min?  
13)how to reemove a cronjob for user?  
14)how to execut a two cmd's?  
15)d/b crontab and at ?

ANSWERS:

1 process which will automatically perform tasks for you according to a set schedule

2 /etc/crontab

3 /etc/init.d/crond

4 crontab -u user\_name -l

5 crontab -u oracle -l

6 crontab -e

7 minute hour day month day\_of\_week

8 \* \* \* \* \* /path\_of\_script

9 0 0 \* \* 0-3,7 /path\_of\_script

10 0,30 \* \* \* \* /path\_of\_script

11 30 3,5 \* \* \* /path\_of\_script

12 \*/10 \* \* \* \* /path\_of\_script

13 crontab -u user\_name -r

14 cmd\_1 && cmd\_2

15 cron: running task at a regular base | at: run task at one-shot.

Day10  
###### package management -1 ######  
1)what is rpm?  
2)how to see all installed rpm package?  
3)where we can find rpm data base files?  
4)where we can find the all packages afte mount the ISO image?  
5)how to install a package?  
6)how to install a package without dependies?  
7)how to upgrade package?  
8)how to see all configaration file which comes with package?  
9)how to display package for one configuration file ?  
10)how to remove a package?

ANSWERS:

1 Red Hat Package Manager is a free and open-source package management system

2 rpm -qa OR rpm -qa --qf '(%{INSTALLTIME:date}): %{NAME}-%{VERSION}\n

3 /var/lib/rpm

4 mount -o loop file.iso /mnt

5 yum install package\_name OR rpm -ivh /package\_name.rpm

6 rpm -ivh --nodeps /package\_name

7 rpm -Uvh /package\_name

8 rpm -qcv /package\_name

9 Not Know

10 yum purge package\_name OR rpm -evv nx package\_name.

Day11  
###### package management -2 ######  
  
11)how to remove a package without checking dependies?  
12)how to display recently installed rpm package along with data and time?  
13)how to see the last kernel updated version?  
14)how to find out the dependenence of rpm packages?  
15)how to see total information of the package?  
16)what is yum?  
17)what are the config file of the yum?  
18) wht is d/b yum and rpm?  
19)how to create yum local repository?  
20)what are the entries you have observed in yum.repo.d?

ANSWERS:

11. aptitude remove package

12. rpm -qa --last

13. rpm -qa --last | grep kernel

14. rpm -qpR rpm-file

15. yum info

16. yellowdog modified updater its same as rpm package

17. /etc/yum/yum.conf

18. rpm package manager is unable to track dependencies while yum can

19.

20.

Day12  
####### package management-3######  
21)in baseurl how many / we have to give ,if it is starts with http,file?  
22)how to mount a iso image?\  
23)how to list out the avilable package which are ready for update?  
24)how to update package with yum?  
25)how to clean yum cache directory?  
26)how to install package with yum?  
27)how to remove package with yum?  
28)patching procedure?  
29)after completed patching server not come up? and how will you troubleshoot?  
30)how to download yum package?  
31)how to list the package which are ready to update?  
32)what is security patching?