Linux Viva question

Ques-1- What is the use of echo command?

Ans- echo is a command that outputs the strings that are passed to it as arguments.

echo "Hello World!"

Ques-2- How to check the computer name or hostname in Linux?

Ans- using 'hostname' command.

Ques-3- How to check the name of current user in Linux terminal?

Ans- whoami

Ques-4- How to check your current path/directory you are working in?

Ans- pwd

Ques-5- Explain the difference between relative and absolute path?

Ans- Relative path: start from current working directory.
Absolute path: the full path to a file or directory

Ques-6- Which command to be used to create a file in Linux?

Ans- touch
vi
vim
nan.....

Ques-7- How will you edit an existing file on a Linux server?

Ans- using vi, vim, nano etc.

Ques-8- How to rename a file in Linux?

Ans- using mv command.

Que-9. How to search for a string in a file?

Ans- using grep command.

Que-10- Difference between grep and egrep?

Ans- for egrep, you can search for more than one strings at same time. egrep "Key1|Key2|Key4"

Que-11. How can you read a file without using cat command?

Ans- using less, more, vi command

Que- What is the advantage of using less command?

Ans- We can easily read big files.
Forward and backward search is easy.
Navigation from top to bottom is easy.

Que- How to check a file's permission?

Ans- ls -l
ll
getfacl file_name

Que- How to check the IP of your linux server?

Ans- ifconfig
ip addr

Que- How to read the top 5 lines in a file?

Ans- head -5 file_name

Que- How to list hidden files?

Ans- ls -la

Ques-18- How to use see all the recently used commands?

Ans- history command

Ques- What is root?

Ans- Admin or super user
/ root home directory for root user
/ root directory.

Ques- What is inode and how to find it for a file?

Ans- ls - li

inode is an index node. It serves as a unique identifier for a specific piece of metadata on a given filesystem.

Ques- Which command can you use for finding files on a linux system?

Ans- using find and locate command.

Ques- Command for counting words and lines?

Ans- wc (word count)
wc-l

Ques- How can you combine two commands? or what is pipe used for?

Ans- We can combine two commands using |
-ex: command 1 | command 2

Pipe is used to combine two commands and redirect output of command 1 to command 2.

Ques- How to view the difference between two files?

Ans- diff file1 file2

Ques:- What is the use of the shared command do?

Ans:- Permanently delete a file which is unable to recover.

```
Shred -u file_name
Shred -- remove file_name
```

Ques:- How to check system architecture info?

Ans:- dmidecode and lscpu command.

Ques:- How to combine two files?

Ans:-
```
cat file1 file2
cat file1 file2 > file3
```

Ques:- How can you find the type of file?

Ans:- file file_name

Ques:- How to sort the content of a file?

Ans:-
```
sort file_name
cat file_name | sort
```

Ques:- Different ways to access a linux server remotely (from a windows machine)?

Ans:- using some tools and terminal like
- putty
- git Bash
- cmd

File permissions-

Que- What are different types of permissions for a file in Linux?

Ans- · Read (r)
· Write (w)
· Executable (x)

Que- How Which permission allow a user to run an executable file?

Ans- We need to provide executable (x) permission to the user.

Redirection-

Que- How to write the output of a command into a file?

Ans- command > file_name

Que- How to write something in a file without deleting the existing content?

Ans- We can append the file using >>

Que- How to redirect an error of a command into a file?

Ans- To redirect an error we need to use 2>
To redirect both error and output, 2>&1

Automation-

Que- How to automate any task or script?

Ans- using cron jobs
for which we have crontab and at command.

Que- How to check scheduled jobs?

Ans- crontab -l

Que- What is the meaning of this cron job?

```
    *           *          *              *            *
minute(0-59)  hour(0-23)  day of the month(1-31)  month(1-12)  day of the week(0-6)
```

Que- If your cron job didn't work, how would you check?

Ans- Check system-time,
crontab entry,
check /var/log/messages

Services:-

Que- What is daemon service?

Ans- Service that keep running in background.
Example: httpd, sshd, chronyd.

Que- How to check if a service is running or not?

Ans- systemctl status service-name

Que- How to start/stop any service?

Ans- systemctl start service-name
systemctl stop service-name

System Monitoring-

Que- How to check for free disk space?

Ans- We can use df command

Que- How to check the size of a directory's content?

Ans- We can use du command

Que- How to check CPU usage for a process?

Ans- We can use top command

Que-

Process-

Que- What is a process in linux?

Ans- An instance of a running program.
Whenever you start a program/application or execute a command, a process is created.
for every process a unique no. is assigned which is called PID (Process ID).

Que- How to check if a process/application is running or not?
Ans- using ps command.

Que- How to terminate/stop a running process?
Ans- using kill command

Que- Difference between kill and kill-9.
Ans- kill-9 will terminate a program forcefully

Networking-

Que- How to check if a IP/Server is accessible or not?
Ans- We can use ping or telnet command

Que- Which command to use to get info about ports?
Ans- We can use netstat command.

Que- How to check open port on linux system?
Ans- netstat pulan | grep port_no

Que- How to check network interface in linux?
Ans- We can use ifconfig and netstat command

Ques- Difference between Telnet and SSH?

Ans- SSH is secured and telnet is not.

SSH:-

Ques- Which service should be running on server to allow you to connect remotely?

Ans- Ssh or sshd.

Ques- What is SSH?

Ans- SSH OR secure shell is a network communication protocol that enables two computers/devices to communicate and share data.

Ques- Why it is called as secure shell?

Ans- Because communication between host and client will be in encrypted format.

Ques- What is default port for SSH?

Ans- 22

Ques- Which command is used to access a linux system from a terminal or another linux server?

Ans- ssh user@198.168.x.x

Archive:-

- If you want to transfer a large file (10GB) remotely, what would be the first thing you will do?

Ans- using tar command, gzip and gunzip command.