

ALRIGHT!

LINUX TUTORIAL



60 INTERVIEW QUESTIONS

Part - I

Linux Basics

SSH

File Permissions

Automation

Services

Networking

Redirection

Process

System Monitoring



Linux Basics:

Ques: 1

What is the use of echo command?

Ques: 1

What is the use of echo command?

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?

Ques: 2

How to check the computer name or hostname in Linux?

Using 'hostname' command

Ques: 3

How to check the current user in Linux terminal?

Ques: 3

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

`whoami`

Ques: 4

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

Ques: 4

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

`pwd`

Ques: 5

Explain the difference between relative and absolute path?

Ques: 5

Explain the difference between relative and absolute path?

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?

Ques: 6

Which command to be used to create a file in Linux?

`touch`

`vi`

`vim`

`nano...`

Ques: 7

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

Ques: 7

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

Using vi, vim, nano etc

Ques: 8

How to rename a file in Linux?

Ques: 8

How to rename a file in Linux?

Using mv command

Ques: 9

How to search for a string in a file?

Ques: 9

How to search for a string in a file?

Using grep command

Ques: 10

Difference between grep and egrep?

Ques: 10

Difference between grep and egrep?

In egrep, you can search for more than one strings at same time

```
egrep "key1|key2|key4"
```

Ques: 11

How can you read a file without using cat command?

Ques: 11

How can you read a file without using cat command?

Using less, more, vi command

Ques: 12

What is the advantage of using less command?

Ques: 12

What is the advantage of using less command?

We can easily read big files.

Forward and backward search is easy.

Navigation from top to bottom is easy.

Ques: 13

How to check a file's permission?

Ques: 13

How to check a file's permission?

```
ls -l
```

```
ll
```

```
getfacl file_name
```

Ques: 14

How to check the IP of your Linux server?

Ques: 14

How to check the IP of your Linux server?

`ifconfig`

`ip addr`

Ques: 15

How to read the top 5 lines in a file?

Ques: 15

How to read the top 5 lines in a file?

```
head -5 file_name
```

Ques: 16

How to read the last 5 lines in a file?

Ques: 16

How to read the last 5 lines in a file?

```
tail -5 file_name
```

Ques: 17

How to list hidden files?

Ques: 17

How to list hidden files?

```
ls -la
```

Ques: 18

How to see all the recently used commands?

Ques: 18

How to see all the recently used commands?

`history`

Ques: 19

What is root?

Ques: 19

What is root?

Admin or super user

/root home directory for root user

/ root directory

Ques: 20

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

Ques: 20

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

```
ls -li
```

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

Ques: 21

Which command can you use for finding files on a Linux system?

Ques: 21

Which command can you use for finding files on a Linux system?

using find and locate command

Ques: 22

Command for counting words and lines?

Ques: 22

Command for counting words and lines?

`wc`

`wc -l`

Ques: 23

How can you combine two commands? or What is pipe used for?

Ques: 23

How can you combine two commands? or What is pipe used for?

We can combine two commands using |

ex: `command1 | command2`

Pipe is used to combine two commands and redirect output of command1 to command2

Ques: 24

How to view the difference between two files?

Ques: 24

How to view the difference between two files?

```
diff file1 file2
```

Ques: 25

What is the use of the shred command do? (permanently delete a file which is unable to recover)

Ques: 25

What is the use of the shred command do? (permanently delete a file which is unable to recover)

```
shred -u file_name
```

```
shred --remove file_name
```

Ques: 26

How to check system architecture info?

Ques: 26

How to check system architecture info?

`dmidecode` and `lscpu`

Ques: 27

How to combine two files?

Ques: 27

How to combine two files?

```
cat file1 file2
```

```
cat file1 file2 > file3
```

Ques: 28

How can you find the type of file?

Ques: 28

How can you find the type of file?

```
file file_name
```

Ques: 29

How to sort the content of a file?

Ques: 29

How to sort the content of a file?

```
sort file_name
```

```
cat file_name | sort
```

Ques: 30

Different ways to access a Linux server remotely (from a Windows machine)?

Ques: 30

Different ways to access a Linux server remotely (from a Windows machine)?

Using some tools and terminal like

- putty
- git bash
- cmd

File Permissions:

Ques: 31

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

Ques: 31

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

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

Ques: 32

How to check the permissions given to a file?

Ques: 32

How to check the permissions given to a file?

```
ls -l
```

```
ll
```

```
getfacl file_name
```

Ques: 33

Which permission allow a user to run an executable file (script)

Ques: 33

Which permission allow a user to run an executable file (script)

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

Redirection:

Ques: 34

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

Ques: 34

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

```
command > file_name
```

Ques: 35

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

Ques: 35

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

We can append the file using >>

Ques: 36

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

Ques: 36

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

To redirect an error we need to use 2>

To redirect both error and output, 2>&1

Automation:

Ques: 37

How to Automate any task or script?

Ques: 37

How to Automate any task or script?

Using cron jobs

For which we have crontab and at command.

Ques: 38

How to check scheduled jobs?

Ques: 38

How to check scheduled jobs?

crontab -l

Ques: 39

What is the meaning of this cron job? * * * * *

Ques: 39

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)

Ques: 40

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

Ques: 40

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

check system time,

crontab entry,

check /var/log/messages

Services:

Ques: 41

What is daemon service?

Ques: 41

What is daemon service?

Service that keep running in background.

Example: httpd, sshd, chronyd

Ques: 42

How to check if a service is running or not?

Ques: 42

How to check if a service is running or not?

```
systemctl status service_name
```

Ques: 43

How to start/stop any service?

Ques: 43

How to start/stop any service?

```
systemctl start service_name
```

```
systemctl stop service_name
```

System Monitoring:

Ques: 44

How to check for free disk space?

Ques: 44

How to check for free disk space?

We can use `df` command

Ques: 45

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

Ques: 45

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

We can use `du` command

Ques: 46

How to check CPU usage for a process?

Ques: 46

How to check CPU usage for a process?

We can use top command

Process:

Ques: 47

What is a process in Linux?

Ques: 47

What is a process in Linux?

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)

Ques: 48

How to check if a process/application is running or not?

Ques: 48

How to check if a process/application is running or not?

Using ps command

Ques: 49

How to terminate/stop a running process?

Ques: 49

How to terminate/stop a running process?

Using kill command

Ques: 50

Difference between kill and kill -9

kill -9 will terminate a program forcefully

Networking:

Ques: 51

How to check if a IP/Server is accessible or not?

Ques: 51

How to check if a IP/Server is accessible or not?

We can use ping or telnet command

Ques: 52

Which command to use to get info about ports?

Ques: 52

Which command to use to get info about ports?

We can use netstat command

Ques: 53

How to check open port on Linux system?

Ques: 53

How to check open port on Linux system?

```
netstat putan | grep port_no
```

Ques: 54

How to check network interfaces in Linux?

Ques: 54

How to check network interfaces in Linux?

We can use `ifconfig` and `netstat` command

Ques: 55

Difference between Telnet and SSH?

Ques: 55

Difference between Telnet and SSH?

SSH is secured and telnet is not.

SSH:

Ques: 56

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

Ques: 56

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

ssh or sshd

Ques: 57

What is SSH?

Ques: 57

What is SSH?

SSH or Secure Shell is a network communication protocol that enables two computers/devices to communicate and share data.

Ques: 58

Why it is called as Secure Shell?

Ques: 58

Why it is called as Secure Shell?

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

Ques: 59

What is default port for SSH?

Ques: 59

WHat id default port for SSH?

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Ques: 60

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

Ques: 60

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

```
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?
- Difference between tar, gzip and gunzip

THANKS FOR WATCHING!