

Linux Real Time Interview Question & Answers

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Linux Real Time Interview Questions and Answers

1. How do you create a new user in Linux?

adduser or useradd command

2. How can you change a user's password?

passwd username

3. What is the meaning of 777 permission in Linux?

Full access for everyone like user, group and owner

4. What is the meaning of 4 2 1 in permission?

4 - Read

2 - Write

1 - Execute

5. I have one folder like demo, I want to give user1 write permission and user2 read only permission?

sudo setfacl -m u:user1:rwX demo

sudo setfacl -m u:user2:rx demo

6. What is soft link and hard link?

Soft Link (Symbolic Link):

A soft link is a shortcut that points to a file or directory.

It can link across different file systems and can point to a directory.

If the original file is deleted, the soft link becomes broken.

ln -s /path/to/original /path/to/softlink

Hard Link:

A hard link is an additional name for an existing file.

It cannot link to directories and must be on the same file system.

If the original file is deleted, the hard link still retains the file content.

```
# ln /path/to/original /path/to/hardlink
```

7. What is the difference between chmod and chown command?

chmod - This command is used for change file or directory permission

chown - This command is used for changing of the file or directory ownership

8. I have installed nginx web server and deployed website, everything working fine. But after rebooting server my website is not working?

We should enable service on boot by command

```
# systemctl enable nginx
```

9. What command would you use to view active listening service ports?

```
sudo netstat -tulpn or # sudo ss -tulpn
```

10. How to check total and used memory?

```
# free -tm
```

11. What is swap memory?

Swap memory is a portion of the hard drive used as virtual memory when the physical RAM is full.

It helps the system handle more processes than the available physical memory.

12. How would you find out which processes are using the most CPU?

#top or #htop

13. How can you view the last 10 lines of a log file?

tail -n 10 /var/log/syslog

14. I want to verify my web server or website is working fine or not from command line? How to check?

curl -I http://yourwebsite.com

wget -N http://yourwebsite.com

15. What is the use of screen and watch command?

Screen - Allows you to start a detached session that can be reattached later. Useful for long-running processes.

Watch - Runs a command repeatedly at regular intervals and shows the output. Useful for monitoring changes.

16. On my Linux based server disk space utilization almost full. I have checked and deleted log file which was consuming lots of space. But still disk space utilization showing same. How to fix this?

Deleted files that are still open by a process don't free up space until the process is stopped or restarted.

To identify and handle such cases:

lsof | grep deleted or # ps -auxf

Find the process IDs (PIDs) of the processes holding the deleted files and restart or terminate them:

kill -9 <PID>

17. I want to execute my script during server reboot only? How to setup?

Setup cron job by adding @reboot

```
# cron -e
```

```
@reboot /script-path
```

18. What is sticky bit permission and when we use it?

The sticky bit is a special permission that can be set on directories.

Only the owner of a file within that directory can delete or rename the file.

This is particularly useful in shared directories where many users have write permissions.

```
# chmod +t directory name
```

```
drwxrwxrwt 2 root root 4096 Jun 10 10:00 /shared
```

19. How to check web server logs?

```
# tail -f /var/log/nginx/access.log
```

```
# tail -f /var/log/nginx/error.log
```