

**DevOps Vault Mentorship Program**  
**Linux Interview Questions & Answers**

**1. What command is used to count the total number of lines, words, and characters contained in a file?**

Answer: `wc -lwm <filename>`

**2. What command is used to remove files?**

Answer: `rm <file name>` or `rm -rf <filename>`

**3. What command is used to remove the directory?**

Answer: `rmdir <directory name>` if empty or, `rm -rf`

`<directory name>` for recursive force removal

**4. What command is used with vi editor to delete a single character?**

Answer: `dw`

**5. Which of the following command can you execute to count the number of lines in a file?**

Answer: `wc -l <filename>`

**6. Which of the following is not a communication command?**

Answer: `grep`

**7. What command is used to display the characteristics of a process?**

Answer: `ps -ef`

**8. What command is used to list contents of directories?**

Answer: `ls <directory name>`

**9. Command used to create an empty file.**

Answer: `touch <file name>`

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**10. What command is used to show the logger or user?**

Answer: whoami

**11. What command clears the contents of your terminal display?**

Answer: clear

**12. What is the command to create the ssh key?**

Answer: ssh-keygen -t rsa or ssh-keygen

**13. What do you type in to move to the parent directory?**

Answer: cd ..

**14. What command is used to change directories?**

Answer: cd <directory name>

**15. What command is used to get the IP address of all interfaces on a server?**

Answer: ifconfig or ip addr show, depend on the linux distribution

**16. What command is used to change ownership of a file?**

Answer: chown <username> <filename>

**17. What command is used to copy a file?**

Answer: cp <filename> <destination>

**18. What command(s) shows you disk partitions and percentage of disk space used?**

Answer: fdisk -l

**19. What command shows you how long it has been since the server was rebooted?**

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Answer: last or last reboot

**20. What command shows you what directory you are in?**

Answer: pwd

**21. What command creates an empty directory?**

Answer: mkdir <directory name>

**22. What command displays your current username?**

Answer: whoami

**23. What command shows you CPU and memory utilization for running processes?**

Answer: df -h

**24. What command allows you to open and view a file one page at a time?**

Answer: more or less <filename> (d and b option) for next and previous page

**25. Which command(s) show users that are logged in?**

Answer: ls /etc/passwd

**26. What command is used to change a file name?**

Answer: mv <file name> <name to change to>

**27. What is the command to switch to the root user account?**

Answer: sudo -i

**28. What command is used to change the permissions of a file?**

Answer: chmod <specify the permission> <filename>

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**29. What is the command to change your password?**

Answer: passwd

**30. What command is used to display your previous commands?**

Answer: history - brings out all the previous commands

**31. What can you type at a command line to determine which shell you are using?**

**who**

Answer:

**32. What is RPM?**

Answer: Red

Hat package

manager CentOS, Fendora, etc

**33. What is apt-get?**

Answer: Package installation

on Debian based system

**34. What is the command to create user in Linux server?**

Answer: useradd <username> or adduser <username>

**35. Explain the file system hierarchy in Linux system.**

**Answer:** The hierachy concept in Linux system can be classified as "upside-down tree" since it starts from the root directory, children and grand-children can be created as required.

**36. What is mkdir command and what are the -v, -p, and -m options with mkdir command?**

Answer: mkdir is for making directories, and -v is verbose, -p no error if existing, and make parent working directory as needed, -m for setting file mode eg: mkidr -m 700 <directory name>

**37. What is ls -ltr? In this**

**what is l, t and r?**

**38. How to list all hidden files and hidden directories?**

Answer: l for long listing, and t for time modification and newest first, and r for reverse

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Answer: ls -a or ls -all

**39. How to display only directories?**

Answer: ls -F | grep /\$

**40. How to display only files?**

Answer: ls -F | grep -v /

**41. What is cd -?**

Answer: present

directory

**42. What is cd ~?**

Answer: change

to home

directory

**43. What is cd?**

Answer: change to user home directory

**44. Which user account is created on Linux during installation?**

Answer: root user

**45. What is the use of the file command?**

Answer: To check the file types

**46. How to check the RAM size?**

Answer: free -m

**47. How to check the server resources utilization?**

Answer: df -h

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**48. How to check the CPU and Memory statistics?**

Answer: top

**49. How to search for files with various conditions like empty files, based on size?**

Answer: find <path> -type f -size <size>

**50. How to set the permissions for files or directories?**

Answer: chmod <specify the permission> <filename>