

# Important Topics to cover for Linux Preparation (2020)

*Note: Please go through all questions in brief*

1. Linux OS definition.
2. Advantages and Disadvantages of Linux OS over other OS.
3. Linux as Open Source
4. Difference between open source, freeware and Premium software
5. Linux Architecture and Different Distro
6. Difference between Linux & UNIX
7. Different types of File System
  - FAT (File Allocation Table)
  - NTFS (New Technology File System)
  - EXT (Extended File System)
8. Linux File System and hierarchy of directory with special propose
9. Main partitioning required for Linux Installation
  - /home
  - /
  - Swap
  - /boot
10. Kudzu definition. How can you configure modules in Linux?
11. Grub definition. Configuration file for Grub
12. Boot process of linux (define process of linux boot which includes terms like GRUB, MBR, initrd)
13. Hardware requirement and Step for installation of Linux / RED HAT Linux from (USB/DVD)
14. Function for following commands
  - cat
  - pstree
  - du
  - chmod 620
  - top
  - touch pokhara
  - df
  - ls -l
  - sudo
  - useradd
  - userdel
  - gpasswd

- fdisk -l
- usermod
- apt install
- iptables
- chgrp
- nslookup
- groupmod
- rpm -i
- at
- alias
- man

15. Define Shell and difference between bash, bourne shell, TCSH, KSH, C-Shell

16. What are different run levels in Linux? Explain method to change these run levels.

17. Process of checking disk quotas in Linux & Monitor System Performance

18. File Permission in details

19. Shell Script definition.

20. Shell script to find the largest integer among given three numbers (program)

21. Shell script to find the factorial of a given number (program)

22. Read user's name, DOB, place and print them (program)

23. Find the sum of two entered numbers (program)

24. Shell script to find the largest integer among four numbers (program)

25. DHCP Server definition and configuration file for DHCP server and DHCP client (DORA process and how DHCP works)

26. Web Server definition and process to host a website in server (Configuration of Web Server)

27. MYSQL Database server definition and configuration file for setting up MYSQL Database in linux

28. BIND Server definition and configuration for DNS Server

29. How can we start and stop any service (command to start and stop MYSQL service)

30. Backup and restore in linux (Tools available in linux for backup)

31. Job scheduling in linux( explain in detail with commands and examples)

32. Simulation of ISP (NIS)

33. VI Text Editor

34. Root login and SuperUser

35. Run level in linux

36. File Permission