

Linux Intermediate Command Practice - Part 1 (50 Questions)

1. List all hidden files in your current directory.

Command: `ls -a`

Explanation: '-a' shows hidden files starting with '.'

2. Move a file report.txt from /home/user/docs to /tmp.

Command: `mv /home/user/docs/report.txt /tmp/`

Explanation: Moves file to target directory.

3. Create multiple directories named log, conf, data at once.

Command: `mkdir log conf data`

Explanation: Creates multiple directories.

4. Copy all .conf files from /etc to your current directory.

Command: `cp /etc/*.conf .`

Explanation: Wildcard copies all .conf files.

5. Create a symbolic link to /var/log/syslog in your home directory.

Command: `ln -s /var/log/syslog ~/syslog_link`

Explanation: Creates shortcut (symlink).

6. Display only the first 5 lines of /etc/passwd.

Command: `head -n 5 /etc/passwd`

7. Display the last 10 lines of a growing log file (/var/log/syslog).

Command: `tail -f /var/log/syslog`

8. Compare file1.txt and file2.txt line by line.

Command: `diff file1.txt file2.txt`

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9. Check if two files are identical.

Command: `cmp file1.txt file2.txt`

10. Find common lines between file1.txt and file2.txt.

Command: `comm -12 <(sort file1.txt) <(sort file2.txt)`

11. Find all files in /var/log containing the word 'error'.

Command: `grep -i 'error' /var/log/*`

12. Find lines that start with 'user' in a file.

Command: `grep '^user' filename.txt`

13. Find all .sh files recursively from your home directory.

Command: `find ~/ -type f -name "*.sh"`

14. Display all files with 'server' in the name and sort them.

Command: `ls | grep server | sort`

15. Create a backup.tar.gz of the /etc directory.

Command: `tar -czvf backup.tar.gz /etc`

16. Extract backup.tar.gz to the /tmp folder.

Command: `tar -xzf backup.tar.gz -C /tmp/`

17. Zip a directory called logs.

Command: `zip -r logs.zip logs/`

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18. Unzip project.zip to /opt.

Command: `unzip project.zip -d /opt/`

19. Create a new user named devops.

Command: `sudo useradd devops`

20. Change password for devops.

Command: `sudo passwd devops`

21. Give read/write/execute permissions to the owner only.

Command: `chmod 700 filename`

22. Change ownership of app.log to user ubuntu.

Command: `sudo chown ubuntu app.log`

23. Add user john to group sudo.

Command: `sudo usermod -aG sudo john`

24. List processes of the user root.

Command: `ps -U root`

25. Kill a process with PID 1234.

Command: `kill 1234`

26. Kill all processes named python.

Command: `killall python`

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27. Check CPU usage of processes in real-time.

Command: top

28. Display only your current shell's process tree.

Command: ps f

29. Display your machine's hostname and OS version.

Command: uname -a

30. Check your username.

Command: whoami

31. Show IP configuration of all interfaces.

Command: ifconfig

32. Trace route to google.com.

Command: traceroute google.com

33. Test internet connectivity using wget.

Command: wget https://www.google.com

34. Check status of nginx service.

Command: sudo service nginx status

35. Restart cron service.

Command: sudo service cron restart

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36. Enable firewall and allow port 22.

Command: `sudo ufw enable && sudo ufw allow 22`

37. List current iptables rules.

Command: `sudo iptables -L`

38. Display filesystem disk usage in GB.

Command: `df -h`

39. Mount a USB device (/dev/sdb1) to /mnt/usb.

Command: `sudo mount /dev/sdb1 /mnt/usb`

40. Export a variable ENV=prod.

Command: `export ENV=prod`

41. Create a custom alias for ls -la.

Command: `alias ls='ls -la'`

42. Check what the command ls does.

Command: `whatis ls`

43. Find the path of the bash command.

Command: `whereis bash`

44. Clear all aliases temporarily.

Command: `unalias -a`

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45. Create a bootable USB using dd.

Command: `sudo dd if=ubuntu.iso of=/dev/sdX bs=4M status=progress`

46. Check size of a directory.

Command: `du -sh /var/log`

47. Show inode usage.

Command: `df -i`

48. Copy and rename a file in one command.

Command: `cp config.yaml config.yaml.bak`

49. Sort and remove duplicate lines from a file.

Command: `sort file.txt | uniq`

50. Create a file, set permission, and write a string in it.

Commands:

`touch greeting.txt`

`chmod 644 greeting.txt`

`echo "Hello Linux" > greeting.txt`