**Linux Commands**

**1. Question: What command is used to list the files and directories in the current directory?**

**Answer:**

**ls**

**The ls command lists all files and directories in the current working directory.**

**2. Question: How do you create a new directory in Linux?**

**Answer:**

**mkdir directory\_name**

**The mkdir command is used to create a new directory. Replace directory\_name with the desired name of your directory.**

**3. Question: Which command is used to change the current directory?**

**Answer:**

**cd directory\_name**

**The cd command changes the current directory to the specified one. Use cd .. to move up one directory level.**

**4. Question: How can you display the contents of a text file in the terminal?**

**Answer:**

**cat filename**

**The cat command is used to display the contents of a text file. Replace filename with the name of the file.**

**5. Question: How do you copy a file from one location to another?**

**Answer:**

**cp source\_file destination\_directory**

**The cp command copies a file from the source location to the destination. Replace source\_file with the file you want to copy and destination\_directory with the target directory.**

**6. Question: Which command is used to move or rename a file?**

**Answer:**

**mv old\_name new\_name**

**The mv command is used to move or rename a file or directory. Replace old\_name with the current name and new\_name with the new name or new location.**

**7. Question: How do you delete a file in Linux?**

**Answer:**

**rm filename**

**The rm command removes a file. Replace filename with the name of the file you want to delete.**

**8. Question: What command is used to find out your current working directory?**

**Answer:**

**pwd**

**The pwd command prints the current working directory path.**

**9. Question: How do you display the first few lines of a file?**

**Answer:**

**head filename**

**The head command shows the first 10 lines of a file by default. You can specify the number of lines using -n (e.g., head -n 5 filename).**

**10. Question: How can you check the disk usage of files and directories?**

**ruby**

**```**

**du**

**```**

**The `du` command estimates the disk space used by files and directories. Use `du -h` for a human-readable format.**

**4o**

**You said:**

**give me question and answers on 50 linux commands**

**1. Question: How do you list all files, including hidden ones, in the current directory?**

**Answer:**

**bash**

**ls -a**

**2. Question: Which command shows the current user’s login name?**

**Answer:**

**bash**

**whoami**

**3. Question: How do you create an empty file in Linux?**

**Answer:**

**bash**

**touch filename**

**4. Question: How can you delete a directory and all its contents?**

**Answer:**

**bash**

**rm -r directory\_name**

**5. Question: What command is used to count the number of lines, words, and characters in a file?**

**Answer:**

**bash**

**wc filename**

**6. Question: How do you display the current date and time?**

**Answer:**

**bash**

**date**

**7. Question: Which command shows the last few lines of a file?**

**Answer:**

**bash**

**tail filename**

**8. Question: How do you search for a specific pattern in a file?**

**Answer:**

**perl**

**grep "pattern" filename**

**9. Question: What command is used to change file permissions?**

**Answer:**

**bash**

**chmod permissions filename**

**10. Question: How can you display the manual page for a specific command?**

**ruby**

**\*\*Answer:\*\***

**```**

**man command\_name**

**```**

**11. Question: Which command will show the amount of free and used memory in the system?**

**ruby**

**\*\*Answer:\*\***

**```**

**free**

**```**

**12. Question: How do you display the first few lines of a file?**

**ruby**

**\*\*Answer:\*\***

**```**

**head filename**

**```**

**13. Question: How can you display real-time system processes?**

**ruby**

**\*\*Answer:\*\***

**```**

**top**

**```**

**14. Question: Which command is used to change the owner of a file?**

**ruby**

**\*\*Answer:\*\***

**```**

**chown user:group filename**

**```**

**15. Question: How do you create a symbolic link to a file?**

**ruby**

**\*\*Answer:\*\***

**```**

**ln -s target\_file link\_name**

**```**

**16. Question: What command would you use to compress a file using gzip?**

**ruby**

**\*\*Answer:\*\***

**```**

**gzip filename**

**```**

**17. Question: How do you extract files from a tar archive?**

**ruby**

**\*\*Answer:\*\***

**```**

**tar -xvf archive\_name.tar**

**```**

**18. Question: Which command is used to display your IP address?**

**ruby**

**\*\*Answer:\*\***

**```**

**ifconfig**

**```**

**19. Question: How can you show the disk usage of a specific directory?**

**ruby**

**\*\*Answer:\*\***

**```**

**du -sh directory\_name**

**```**

**20. Question: What command is used to check the available disk space?**

**ruby**

**\*\*Answer:\*\***

**```**

**df -h**

**```**

**21. Question: How do you display system information, such as the kernel version?**

**\*\*Answer:\*\***

**```**

**uname -a**

**```**

**22. Question: Which command is used to list all running processes by a specific user?**

**```**

**ps -u username**

**```**

**23. Question: How do you terminate a process by its process ID (PID)?**

**```**

**kill PID**

**```**

**24. Question: What command allows you to search for files in a directory hierarchy?**

**```**

**find /path/to/search -name filename**

**```**

**25. Question: How do you display the last logged-in users?**

**```**

**last**

**```**

**26. Question: Which command do you use to display the environment variables?**

**```**

**printenv**

**```**

**27. Question: How can you view the contents of a compressed file without extracting it?**

**```**

**zcat filename.gz**

**```**

**28. Question: What command is used to display active network connections?**

**```**

**netstat**

**```**

**29. Question: How do you run a command with root privileges?**

**```**

**sudo command\_name**

**```**

**30. Question: Which command is used to change your password?**

**```**

**passwd**

**```**

**31. Question: How do you display the current running shell?**

**```**

**echo $SHELL**

**```**

**32. Question: What command can you use to compare the contents of two files?**

**```**

**diff file1 file2**

**```**

**33. Question: How do you schedule a one-time task to run in the future?**

**```**

**at time**

**```**

**34. Question: Which command is used to synchronize files and directories between two locations?**

**```**

**rsync source destination**

**```**

**35. Question: How do you check the status of a service?**

**```**

**systemctl status service\_name**

**```**

**36. Question: What command allows you to view and edit network interfaces?**

**```**

**ip addr**

**```**

**37. Question: How do you permanently delete a file by overwriting it?**

**```**

**shred -u filename**

**```**

**38. Question: Which command would you use to change the system’s hostname?**

**```**

**hostnamectl set-hostname new\_hostname**

**```**

**39. Question: How do you search for installed packages on your system?**

**```**

**dpkg -l | grep package\_name # For Debian/Ubuntu-based systems**

**rpm -qa | grep package\_name # For RedHat/CentOS-based systems**

**```**

**40. Question: What command is used to check for updates on a Debian-based system?**

**```**

**sudo apt update**

**```**

**41. Question: How do you display the amount of time the system has been running?**

**```**

**uptime**

**```**

**42. Question: Which command would you use to monitor system logs in real-time?**

**``**

**tail -f /var/log/syslog**

**```**

**43. Question: How do you find the location of an executable file?**

**```**

**which command\_name**

**```**

**44. Question: What command is used to repeat a command until manually stopped?**

**```**

**watch command\_name**

**```**

**45. Question: How do you display the system's hardware information?**

**```**

**lshw**

**```**

**46. Question: Which command is used to view information about a particular command, such as its location?**

**```**

**type command\_name**

**```**

**47. Question: How do you record a terminal session to a file?**

**```**

**script filename**

**```**

**48. Question: What command is used to download files from the internet in Linux?**

**```**

**wget URL**

**```**

**49. Question: How do you view the history of commands you've entered in the terminal?**

**```**

**history**

**```**

**50. Question: Which command allows you to clear the terminal screen?**

**```**

**clear**

**```**

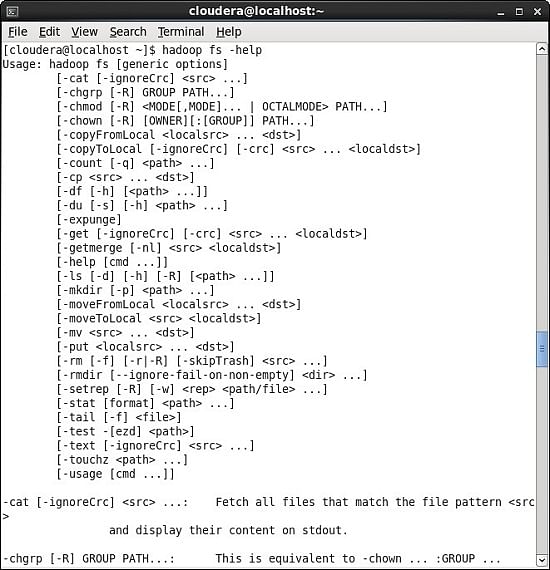
**HDFS Shell Command**

**1) help  HDFS Shell Command**

**Syntax of help hdfs Command**

 $ hadoop fs –help

Help hdfs shell command helps hadoop developers figure out all the available hadoop commands and how to use them.



**1. Question: How do you list all files and directories in a specific HDFS directory?**

**Answer:**

bash

hdfs dfs -ls /path/to/directory

**2. Question: Which command is used to display the contents of a file in HDFS?**

**Answer:**

bash

hdfs dfs -cat /path/to/file

**3. Question: How can you create a new directory in HDFS?**

**Answer:**

bash

hdfs dfs -mkdir /path/to/new\_directory

**4. Question: What command is used to copy files from the local file system to HDFS?**

**Answer:**

arduino

hdfs dfs -put local\_file /path/to/hdfs\_directory

**5. Question: How do you retrieve a file from HDFS to the local file system?**

**Answer:**

bash

hdfs dfs -get /path/to/hdfs\_file /local/destination\_directory

**6. Question: Which command can be used to remove a file or directory in HDFS?**

**Answer:**

bash

hdfs dfs -rm /path/to/hdfs\_file\_or\_directory

**7. Question: How do you delete a non-empty directory in HDFS?**

**Answer:**

bash

hdfs dfs -rm -r /path/to/non\_empty\_directory

**8. Question: What command is used to check the disk usage of a directory in HDFS?**

**Answer:**

bash

hdfs dfs -du -h /path/to/directory

**9. Question: How do you move or rename a file in HDFS?**

**Answer:**

bash

hdfs dfs -mv /path/to/source /path/to/destination

**10. Question: Which command will display the last part of a file in HDFS?**

```

hdfs dfs -tail /path/to/file

```

**11. Question: How do you merge multiple files into a single file in HDFS?**

```

hdfs dfs -getmerge /path/to/source\_directory /path/to/destination\_file

```

**12. Question: What command is used to change the owner of a file or directory in HDFS?**

```

hdfs dfs -chown new\_owner:new\_group /path/to/file\_or\_directory

```

**13. Question: How do you change the permissions of a file in HDFS?**

```

hdfs dfs -chmod 755 /path/to/file\_or\_directory

```

**14. Question: Which command will change the group ownership of a file or directory in HDFS?**

```

hdfs dfs -chgrp new\_group /path/to/file\_or\_directory

```

**15. Question: How can you set the replication factor for a file in HDFS?**

```

hdfs dfs -setrep -w replication\_factor /path/to/file

```

**16. Question: What command is used to display the status of a file or directory in HDFS?**

```

hdfs dfs -stat /path/to/file\_or\_directory

```

**17. Question: How do you copy files from one HDFS location to another?**

```

hdfs dfs -cp /source/path /destination/path

```

**18. Question: Which command is used to count the number of directories, files, and bytes in HDFS?**

```

hdfs dfs -count /path/to/directory

```

**19. Question: How do you check the checksum of a file in HDFS?**

```

hdfs dfs -checksum /path/to/file

```

**20. Question: What command will list only the files (excluding directories) in an HDFS directory?**

```

hdfs dfs -ls -h /path/to/directory | grep "^-"

```

**21. Question: How do you recursively list all files and directories in HDFS?**

```

hdfs dfs -ls -R /path/to/directory

```

**22. Question: Which command is used to display the HDFS usage summary?**

```

hdfs dfsadmin -report

```

**23. Question: How do you display the HDFS configuration settings?**

```

hdfs getconf -confKey configuration\_key

```

**24. Question: What command is used to set a quota on a directory in HDFS?**

```

hdfs dfsadmin -setSpaceQuota space\_quota /path/to/directory

```

**25. Question: How do you clear a quota on a directory in HDFS?**

```

hdfs dfsadmin -clrSpaceQuota /path/to/directory

```

**26. Question: Which command is used to safely restart the HDFS NameNode?**

```

hdfs namenode -safemode enter

hdfs dfsadmin -saveNamespace

hdfs namenode -safemode leave

```

**27. Question: How do you put the HDFS NameNode in safe mode?**

```

hdfs dfsadmin -safemode enter

```

**28. Question: What command is used to leave the HDFS NameNode safe mode?**

```

hdfs dfsadmin -safemode leave

```

**29. Question: How can you check whether the NameNode is in safe mode?**

```

hdfs dfsadmin -safemode get

```

**30. Question: Which command will display the block information of a file in HDFS?**

```

hdfs fsck /path/to/file -files -blocks

```

**31. Question: How do you list all the active HDFS DataNodes?**

hdfs dfsadmin -report | grep "Datanodes available"

```

**32. Question: What command is used to create a snapshot of an HDFS directory?**

```

hdfs dfs -createSnapshot /path/to/directory snapshot\_name

```

**33. Question: How do you delete a snapshot in HDFS?**

```

hdfs dfs -deleteSnapshot /path/to/directory snapshot\_name

```

**34. Question: Which command allows you to rename a snapshot in HDFS?**

```

hdfs dfs -renameSnapshot /path/to/directory old\_snapshot\_name new\_snapshot\_name

```

**35. Question: How do you check the quota usage for a directory in HDFS?**

```

hdfs dfs -count -q /path/to/directory

```

**36. Question: What command is used to list all snapshots of a directory in HDFS?**

```

hdfs dfs -lsSnapshottableDir

```

**37. Question: How do you increase the replication factor of a file in HDFS?**

```

hdfs dfs -setrep -w 3 /path/to/file

```

**38. Question: Which command is used to recover a lease on a file in HDFS?**

```

hdfs debug recoverLease -path /path/to/file

```

**39. Question: How can you move a file into the trash in HDFS?**

```

hdfs dfs -rm -skipTrash /path/to/file

```

**40. Question: What command is used to restore a file from the HDFS trash?**

```

hdfs dfs -mv /user/<username>/.Trash/Current/path/to/file /destination/path

```

**41. Question: How do you view the content of a compressed file in HDFS?**

```

hdfs dfs -text /path/to/compressed\_file

```

**42. Question: Which command is used to append content to an existing file in HDFS?**

```

hdfs dfs -appendToFile local\_file /path/to/hdfs\_file

```

**43. Question: How do you count the number of files in an HDFS directory?**

```

hdfs dfs -count -e /path/to/directory

```

**44. Question: What command will delete all files older than a certain number of days in HDFS?**

```

hdfs dfs -ls /path/to/directory |

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