1. Linux Commands

- 1. root@277d4ce30328:/#
 - root -> current user
 - 277d4ce30328 -> host name of the server
- 2. Shell -> Takes the linux commands and interprets it for the OS and tells what to execute
- 3. Is -> list all the files and folders in a particular folder
- 4. mkdir -> create new folder
- 5. cd -> change directory
- 6. cd .. -> go one folder back
- 7. **cd** -> if type only cd it goes to home.
- 8. whereis python3 -> tells where the python3 executables are located
- 9. open. -> opens folder in GUI mode
- 10. open /usr/bin -> opens that particular directory in GUI
- 11. /usr/bin/python3 -> this will also run python3 executables
- 12. echo \$PATH -> all our executable files are searched here when we type any command
- 13. echo -> for printing on screen
- 14. ls -a -> show all the hidden files
- 15. cat file_name -> displays content of the a particular file
- 16. vim bashrc -> open bashrc file and you can edit the content
- 17. :wg -> save and exit the file
- 18. :q -> dont save and exit the file
- 19. i -> insert in the file and you can start writing
- 20. pwd -> which directory currently i am now in (print working directory)
- 21. Is -I -> it shows all the user and group owners and permissions of files
- 22. Is -al -> list all the hidden files as well as there owner and group permissions
- 23. Is -R -> list all the sub directories recursively in a particular folder
- 24. cat > Hello -> creates Hello file and then you can type content in it and press cltr+C and exit
- 25. CLTR+C -> to exit out a particular process
- 26. cat file_1 file_2 > file_3 -> copy contents of file_1 and file_2 and put it in file_3
- 27. cat file_1 file_2 -> display file_1 and file_2 contents
- 28. echo "Hello world" > file.txt -> put Hello World in file.txt
- 29. man -> to know the information about a particular command eg man echo
- 30. cat file.txt | tr a-z A-Z > upper.txt -> take all the content of file.txt and translate all the characters from lower to uppercase and store it in upper.txt
- 31. pipe(|) -> output of the first command will act as an input to the second command
- 32. redirect (>) -> redirect the output
- 33. \-> add new command in new line

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- 34. touch abc.txt -> create abc text file
- 35. cp file.txt copy_file.txt -> copy the contents of file.txt and put it in new copy_file.txt
- 36. mv names.txt random -> move names.txt file inside random folder
- 37. my file.txt newName.txt -> rename file.txt to newName.txt
- 38. rm file.txt -> remove the file
- 39. cp -R test random -> copy all the files and folder of test directory to random directory recursively
- 40. mv test new_test -> rename folder test to new_test
- 41. rm -R random -> delete folder random and everything in it
- 42. sudo -> to execute the command as an administrator
- 43. df -> system disk space usage.
- 44. **df** -m -> to check in mb
- 45. df -h -> in human readable format.
- 46. du -> disk usage statistics
- 47. head file.txt -> show the first 10 lines of file.txt
- 48. head -n 4 file.txt -> show only 4 lines of file.txt
- 49. tail file.txt -> display last 10 lines of file.txt
- 50. tail -n 2 file.txt -> display bottom 2 lines of file.txt
- diff file1.txt file2.txt -> compare both files line by line and show lines that doesn't match
- 52. locate "*docker" -> locate all files that end with docker
- 53. **locate abc.txt** -> locates abc.txt files and shows the path
- 54. find .-type d -> find all the directories in the current directories
- 55. find .-type f -> find all the files in the current directories
- 56. find . -type f -name "two.txt" -> find in the current directories two.txt file
- 57. 3 types of permission -> read, write, execute
- 58. 3 types -> user, group, other
- 59. **chmod u=rwx,g=rx,o=r upper.txt** -> change modification of upper.txt user should have all the 3 permissions and group should have read and execute permission and other should have only read permissions.
- 60. 4 -> read, 2-> write, 1 -> execute 0 -> no permission
- 61. **chmod 657 upper.txt** -> user has read and write permission(4+2), group has read and execute permission (4+1), other have all 3 permission(4+2+1)
- 62. whoami -> who is logged in, the user.
- 63. sudo chown root upper.txt -> change the owner of upper.txt to the root
- 64. grep "Google" upper.txt -> check wheather Google is present in upper.txt or not
- 65. grep -i "google" upper.txt -> not case sensitive, it will still show Google is present or not
- 66. grep -n "Google" name.txt -> in which line Google is present in name.txt
- 67. history -> history of all the commands used

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- 68. history | grep "chown" -> list of the all the commands used that contained chown
- 69. cltr + a -> move the cursor to the start of the line
- 70. cltr + e -> move the cursor to the end of the line
- 71. cltr + k -> remove everything from the right side of the cursor
- 72. cltr + u -> remove the full command from that line
- 73. TAB -> autocomplete command
- 74. clear -> clear terminal
- 75. **git add .;git commit -m "message";git push origin main ->** run multiple commands on same line using semi-colon(;)
- 76. **sort companies.txt** -> sort the contents of the file
- 77. sort -r companies.txt-> sort the contents of the file in the reverse order
- 78. **jobs** -> processes started by shell
- 79. ping www.google.com -> to check network connectivity between two host
- 80. wget url -> to download any file from internet
- 81. top -> to check all the processes running(% cpu usage, memory, ports,threads etc)
- 82. **uname** -> to check which kernel you are using.
- 83. zip files.txt companies.txt -> zip your companies.txt file into files.txt
- 84. zip files2.txt companies.txt file.txt -> zip both file companies and file into one files2.txt
- 85. unzip <u>files2.zip</u> -> unzip <u>files2.zip</u>
- 86. useradd Jones -> add user Jones
- 87. passwd Jones -> set the password for the user Jones
- 88. userdel Jones -> delete User
- 89. cat /etc/os-release -> info about os
- 90. **lscpu** -> cpu details
- 91. free -> free memory
- 92. vmstat -> virtual memory
- 93. **lsof** list all the open files.
- 94. **nslookup google.com** -> IP address of a domain name
- 95. netstat active listening ports
- 96. **ifconfig** The ifconfig command is used for displaying current network configuration information
- 97. ps aux all the processes
- 98. rm -r!(names.txt) -> remove all the files except names.txt.

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