**Linux commands for accessing the virtual machine present in server using linux commands**

1. $ whoami :- command used to check the current user logged in to the server
2. $ date :- used to current server date and time
3. $ cal :- used to get the calender for that particular month
4. $ cal 2025 :- used to get the calender for that particular year
5. $ pwd :- command used to get the present working directory
6. $ mkdir <foldername> :- used to create a folder/directory
7. $ ls :- listing the content of that particular directory sorted in alphabetical order
8. $ ls -r :- listing the content of that particular directory sorted in descending alphabetical order or reverse sorting
9. $ ls –l :- longlisting the folder contents based on current date and time
10. $ ls –lr :- longlisting the file names in reverse order
11. $ clear :- command is used for clearing the screen
12. $ rmdir <foldername> :- is used for removing empty directory
13. $ ls –la :- used to get the hidden files in a particular folder
14. $ cd /home/ec2-user/a :- command is used for navigating to another directory folder
15. $ cd .. / cd ~ :- is used for going one folder back
16. $ touch <filename.txt> :- command used for creating a text file
17. $ rm –rf <folder name>:- recursively forcibly remove the folder even when the content is there inside it
18. $ exit :- command used for logout

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1. $ mv <existing filename.txt> <expected filename.txt> command used for renaming the file name
2. $ mv f0.text(current file) /home/ec2-user/a (location and the folder name it has to be moved)
3. $ mv present location(file name) to location where it has to moved
4. $ cat > f4.txt enter ctr + C :- creating a file
5. $ cat >> f1.txt

Hello world

Hi

Used for writing contents into the file

1. $ cat f1.txt :- command used for reading the contents of the file
2. $ cat –n f1.txt :- used for reading the contents of the file including the line numbers
3. $ cat >> f6.txt :- If a file is not present it is used for creating a file as well
4. $ touch f6.txt :- just updates the timestamp of the file it doesn’t alter the content of the file
5. $ tac f1.txt :- is used to read the file in reverse order
6. $ cp f1.txt(source file) f2.txt(destination file) :- used to copy the content from one file to another file
7. $ cat f1.txt f2.txt > f3.txt :- used to copy the contents of file f1, f2 to file f3.txt
8. $ head f1.txt :- used to read the first 10 lines of f1.txt file
9. $ head –n 5 f3.txt :- to read the first 5 lines of f3.txt file
10. $ grep “He” f1.txt :- global regular expression is used to find specific pattern or a word in a particular file
11. $ grep –i “He” f1.txt :- performs search operation based on the case insensitivity comparison
12. $ grep –n –i “He” f1.txt :- here -n is for line number and -i for ignoring the case sensitivity order of i & n doesn’t matter
13. $ grep -v -i -n “He” f1.txt :- here to search other content apart from “He” is used
14. $ grep -i ‘He’ \* :- this command is used for searching from all the files in that particular folder
15. $ grep -i -v ‘He’ \* :- apart from ‘He’ all other data is found and fetched on the screen
16. $ grep –i –v –n ‘He’ \* :- here including the line number if the content has to fetched then this is mainly used
17. $ tail f3.txt | grep –i ‘He’ :- to find the content in the last 10 lines of the file
18. $ tail –n 3 f3.txt | grep –i ‘He’ :- to find the content in the last 3 lines here we are using pipelines for storing multiple commands
19. $ cat f1.txt | nl :- command is used for reading contents of the file in order
20. $ tac f1.txt | nl :- command is used for reading contents of the file in reverse order
21. $ head –n 5 f3.txt | grep -i ‘He’ :- to find the content in first 5 lines of f3.txt
22. $ wc f3.txt :-used for getting the line, word & characters count in that particular file
23. $ wc –l f3.txt :- used to get only the number of lines present in the file
24. $ wc –w f3.txt :- used to get the count of words in the file
25. $ wc –m f3.txt :- gives us the number of characters present in that particular file
26. Use the cp command to copy the contents from file1.txt into the file2.txt
27. Use head to display the first 15 lines of logfile.log
28. Use grep to search all the occurrences of the word “error” in logfile.log
29. Use tail to show the last 20 lines of access.log
30. Use WC to count the number of words in the sample.txt

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1. $ vi f3.txt :- Is a Visual Editor for Linux Os just like Notepad editor for Windows Os
2. $ vi f3.txt :- after entering the text content just type I for insert mode after entering the text press esc key and for saving and quit use :wq command
3. :w :- for just saving
4. :q :- for quit option
5. :q! :- for quit without saving
6. $ sed :- here sed stands from Stream Editor just like visual editor here stream editor can do text processing (substitution, deletion, printing and insertion). Performing operations without opening them
7. $ sed ‘s\Hello\World\’ f1.txt :- this command is used for replacing/substituting all the first occurences of Hello with World
8. $ sed ‘s\Hello\World\2’ f1.txt :- is used for replacing all the second instances of Hello in a line in the f1.txt file
9. $ sed ‘s\world\hello\g’ f1.txt :- is used to replace or substitute all the occurrences of world to hello
10. $ sed -i 's/world/kushal/g' f1.txt :- is used for permanently changing the content
11. $ sed -i '1d' f1.txt :- command is used for deleting the first line of the text file
12. $ sed -i ‘$d’ f1.txt :- command is used for deleting the last line
13. $ sed -i ‘1,5d’ f1.txt :- command is used for deleting range of lines
14. $ sed -i ‘1, $d’ f1.txt :- command for deleting all the lines in a text files

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