60 Days Of DevOps

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Day 2 - Linux Cheatsheet

1. **cd** - **change directory**
   a. **cd /path/to/directory - change to a specific directory**
   b. **cd .. - move up one directory level**
   c. **cd - move to the home directory**
2. **ls** - **list directory contents**
   a. **ls - list files and directories in the current directory**
   b. **ls -l - list files and directories with detailed information**
   c. **ls -a - list hidden files and directories**
3. **mkdir** - **create a new directory**
   a. **mkdir directoryname - create a new directory with the specified name**
4. **rmdir** - **remove an empty directory**
   a. **rmdir directoryname - remove the specified empty directory**
5. **rm** - **remove a file or directory**
   a. **rm filename - remove the specified file**
   b. **rm -r directoryname - remove the specified directory and its contents**
6. **cp** - **copy a file or directory**
   a. **cp source destination - copy the source file or directory to the destination**
   b. **cp -r sourcedirectory destinationdirectory - copy the source directory and its contents to the destination**
7. **mv** - **move or rename a file or directory**
   a. **mv source destination - move or rename the source file or directory to the destination**
8. **cat** - **concatenate and display files**
   a. **cat filename - display the contents of the specified file**
9. **nano** - **a text editor for the terminal**
   a. **nano filename - open the specified file in nano for editing**
10. **chmod** - **change file permissions**
    a. **chmod permission filename - change the permissions of the specified file, where permission is a three-digit number representing the permissions for the owner, group, and others**
11. **chown** - **change file ownership**
    a. **chown owner:group filename - change the owner and group of the specified file**

12. **sudo** - execute a command as a superuser
    a. **sudo command - execute the specified command with superuser privileges**
13. **grep** - search for text within files
    a. **grep pattern filename - search for the specified pattern within the specified file**
    b. **grep -r pattern directory - search for the specified pattern within all files in the specified directory**
14. **find** - search for files and directories
    a. **find directory -name filename - search for files with the specified name in the specified directory**
    b. **find directory -type d - search for directories in the specified directory**
15. **tar** - create or extract compressed archive files
    a. **tar -cvf archive.tar file1 file2 - create a new archive file with the specified files**
    b. **tar -xvf archive.tar - extract the files from the specified archive**
16. **wget** - download files from the internet
    a. **wget url - download the file at the specified URL**
17. **ssh** - connect to a remote server over a secure shell
    a. **ssh username@hostname - connect to the remote server with the specified username and hostname**
18. **top** - display system resource usage
    a. **top - display real-time information about system resource usage, including CPU, memory, and processes**
19. **du** - display disk usage information
    a. **du - display the disk usage for the current directory**
    b. **du -h - display the disk usage in a human-readable format**
20. **df** - display file system information
    a. **df - display information about mounted file systems**
    b. **df -h - display the file system information in a human-readable format**
21. **ping** - test network connectivity
    a. **ping hostname - test the network connectivity to the specified hostname**
22. **ifconfig** - display network interface configuration
    a. **ifconfig - display information about the network interfaces on the system**
23. **ps** - display information about processes
    a. **ps - display information about the processes running on the system**
    b. **ps -ef - display detailed information about all processes running on the system**
24. **kill** - terminate a process
    a. **kill processid - terminate the process with the specified ID**
    b. **killall processname - terminate all processes with the specified name**
25. **scp** - copy files between servers securely
    a. **scp file username@hostname:/path/to/destination - copy the file to the specified destination on the remote server**
26. **sed** - perform text transformations on files

a. **sed 's/search/replace/' filename - perform a search and replace operation on the specified file**

27. **awk - process and manipulate text files**
    a. **awk 'pattern { action }' filename - perform an action on lines in the file that match the specified pattern**

28. **curl - transfer data from or to a server**
    a. **curl url - transfer data from the specified URL**
    b. **curl -o filename url - transfer data from the specified URL and save it to the specified file**

29. **head - display the beginning of a file**
    a. **head filename - display the first 10 lines of the specified file**
    b. **head -n numlines filename - display the specified number of lines from the beginning of the file**

30. **tail - display the end of a file**
    a. **tail filename - display the last 10 lines of the specified file**
    b. **tail -n numlines filename - display the specified number of lines from the end of the file**

31. **history - display command history**
    a. **history - display a list of previous commands entered in the terminal**
    b. **history numlines - display the specified number of previous commands**

32. **man - display manual pages for commands**
    a. **man command - display the manual page for the specified command**