

LINUX COMMANDS

- `sudo su` [root user access]
- `ls` [list]
- `cat file1` [create file1]
- `cat >file1` [Add to file1]
- `cat >>file1` [Add to existing content of file1]
- `touch file1 file2 file3` [create files]
- `stat file1` [check statistics]
- `vi file1` [create file1]
 - :w → save
 - :wq → save and quit
 - :q → quit
 - :q! → Force quit.
- `nano file1` [create file1]
- `mkdir dir1` [create directory]
- `cd dir1` [change directory]
- `cd ..` [Go back in directory]
- `cd ../..` [Go back/back in directory]
- `pwd` [locate existing directory]

- touch .file1 [create hidden file1]
- ls -a [list hidden files too]
- mkdir .dir1 [make hidden directory]
- cp file1 file2 [copy file1 to file2]
- mv file1 dir1 [move file1 into dir1]
- mv file1 myfile [move file1 content to myfile]
- rmdir dir1 [remove dir1]
- rmdir -p dir1/dir2 [remove parent/children directory]
- ls -l [long list]
- ls -la [long list with hidden files]
- rm -f file1 [remove forcefully file1]
- hostname [Machine name, OS details, etc]
- hostname -i [Machine ip address]
- ifconfig [ip address]
- cat /etc/os-release [OS version, etc]

- yum install httpd [install httpd]
- yum remove httpd [uninstall httpd]
- yum update httpd [update httpd]
- service httpd start [start httpd server]
- service httpd status [check status of httpd]
- chkconfig httpd on [On httpd by default when machine starts]
- chkconfig httpd off
- which httpd [to check where the software is installed]
which chef
which tree
- whoami [to check who you are]
- echo
- yum list installed
- grep root /etc/passwd [to search any data by name 'root']
- sort [arrange in alphabetic manner]
- less [to check less content of any file]

- more [to check more content of any file]
- head [check 1st 10 lines of file]
- tail [check last 10 lines of file]
- useradd aamair [add aamair user]
- cat /etc/passwd [list of users]
- groupadd office [add office group]
- cat /etc/group [to check groups]
- gpasswd -a aamair office [to add aamair user to office group]
- gpasswd -M aamair,awais,arfa office [to add multiple user to group]
- ln file1 backupfile1 [create backup file of file1 and save as backupfile1] - Hardlink.
- ln -s file1 softfile1 [create shortcut of file1 by name softfile1] - Softlink.
- tar -cvf dir1.tar dir1 [create .tar file of directory dir1]
- gzip dir1.tar [compress dir1.tar and zip one file].
→ dir1.tar.gz
- gunzip dir1.tar.gz [unzip file]

- `tar -xvf dir1.tar` [remove tar]
- `tar zxvf dir1.tar.gz` [Unzip and Remove tar]
- `wget <url>` [Download any package from internet]
- Access Control
 - Read - 4
 - Write - 2
 - Execute - 1
$$\left. \begin{array}{l} \text{Read} - 4 \\ \text{Write} - 2 \\ \text{Execute} - 1 \end{array} \right\} 4 + 2 + 1 = 7$$
- `chmod 777 dir1` [to give full access to dir1]
- `chmod 700 dir1` [only root user full access]
 - Root User Groups Other
- `chmod u=r, g=rwx, o=wx file1` [to give access as]
- `chmod u=rwx, g=rwx, o=rwx file1` [to give full access]
- `chmod u+r, g=rwx, o-x file1` [to give permissions as]
[+, -, =]
- `chown aamair file1` [change owner of file1 to aamair]
- `chgrp devops file1` [change group of file1 to devops]