

Basics of Linux

What is Linux?

*its an operating system ,which is an open source ,free no licence required & faster , secure,
Develop by Linus Trovald*

*mostly software development companies use linux os for php,wordpress, python, java and
became popular global*

Linux Distro: redhat , ubuntu ,centos

Administration Commands

1. create user/password/delete

default admin user : root , aws linux : ec2-user(sudo)

how to create user account?

sudo useradd ali

how to see ? sudo cat /etc/passwd

how to set password ? sudo passwd ali

how to add normal user to wheel group to make his as sudoer user?

sudo usermod -aG wheel ali

how to check login user is sudoer or normal user?

groups <--

how to login (switch user)with existing user?

su - ali

how to logoff

exit

groups username (to check membership)

===

2. General

pwd : to check current directory

whoami : to check current user name

ip a : to check ip address private ip

df -h : to check disk space

lsmem : To check memory info

3. install software packages /remove

*server : a machine which server some service is called server (webserver , app server ,
db server)*

webserver: nginx or httpd

how to make linux as webserver :

sudo yum install nginx -y (remove/update)

how to start nginx service :

sudo systemctl start nginx (stop /restart)

sudo systemctl enable nginx

git , docker , tomcat ,python , java

how to check service status ?

sudo systemctl status docker

how to download sw/file remote server ?

wget url (zip or tar compressed file)

how to check directories ? ls

unzip file.zip

how to untar a tar file?

tar -xvzf tomcat9.tar.gz

how to Update Os : sudo yum update -y

4. **file & directory management**

how to create empty file?

touch file1

how to edit file ? vi file1 or vim file1

press i , u type and finally press esc , :wq

how to delete file ? rm file1

how to create directory? mkdir directoryname

how to switch to directory ? cd directoryname

how to exit directory ? cd ..

how to delete directory ? rm -r directoryname

ex: php python java docker jenkins

ex; create file in php (index.php)

vi index.php , i , esc , :wq

how to see file contents? cat file1

5. **Permission On Files/Directory**

how to check file permissions?

ll (long list)

owner , groups , others

4=r 2=w 1=x =7 all

chmod 777 index.html

chmod 746 index.html

6. *how to check ip address ?*
ifconfig (for private ip)
curl ifconfig.me (for public ip)
7. *how to check memory ? lsmem or lscpu*
8. *how to reboot server /shutdown ? sudo reboot , sudo shutdown*