**-: Practice Commands at Linux Terminal :-**

**Open terminal window**

1. $ **pwd**

/home/ubuntu

1. $ **vi** README.txt ( Press i, Add content, Press ESC, Type Colon ‘:’ and wq then ENTER )

$ **ls**

README.txt

1. $ **mkdir git**

$ ls

README.txt **git**

**$ mkdir -p newdir/newdir2/another\_folder**

$ ls

README.txt **git newdir**

1. $ **rmdir newdir**

$ ls

README.txt **git**

1. $ **touch hello\_world.sh**

$ ls

README.txt **git** hello\_world.sh

1. $ **ifconfig -a eth0**

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001

inet 172.31.12.174 netmask 255.255.240.0 broadcast 172.31.15.255

inet6 fe80::814:eff:fe1d:18f2 prefixlen 64 scopeid 0x20<link>

ether 0a:14:0e:1d:18:f2 txqueuelen 1000 (Ethernet)

RX packets 172304 bytes 158195456 (158.1 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 94499 bytes 21118132 (21.1 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

1. $ **wget** **https://tldp.org/LDP/abs/abs-guide.pdf**

--2021-09-12 15:19:24-- https://tldp.org/LDP/abs/abs-guide.pdf

Resolving tldp.org (tldp.org)... 152.19.134.151, 152.19.134.152

Connecting to tldp.org (tldp.org)|152.19.134.151|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2741648 (2.6M) [application/pdf]

Saving to: ‘abs-guide.pdf’

abs-guide.pdf

100%[======================================>] 2.61M 1.82MB/s in 1.4s

2021-09-12 15:19:27 (1.82 MB/s) - ‘abs-guide.pdf’ saved [2741648/2741648]

**$** ls

README.txt abs-guide.pdf **git**

8) $ **find . -name \*.pem -type f -print | xargs tar -cvzf images.tar.gz**

..

./aws\_key.pem

..

$ ls

README.txt abs-guide.pdf **git** hello\_world.sh images.tar.gz

9) $ **sleep 100 &**

[1] 4986

$ **jobs**

[1]+ Running sleep 100 &

$ **ps -aef|grep sleep**

ubuntu **4986** 4864 0 15:23 pts/1 00:00:00 **sleep** 100

ubuntu 4988 4864 0 15:23 pts/1 00:00:00 grep --color=auto **sleep**

$ **kill -9 4986**

[1]+ Killed sleep 100

10) $ **ssh -i ./aws\_key.pem ubuntu@13.126.12.47**

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86\_64)

... more log ...

\*\*\* System restart required \*\*\*

Last login: Sun Sep 12 15:30:41 2021 from 49.207.199.33

11) **$** **scp -i aws\_key.pem hello\_world.sh ubuntu@13.126.12.47:/tmp**

hello\_world.sh 100% 21 0.3KB/s 00:00

12) **$** **service ssh**

\* Usage: /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restart|status}

**$** **service ssh status**

ssh.service - OpenBSD Secure Shell server

Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)

Active: **active (running)** since Sat 2021-09-11 06:31:46 UTC; 1 day 9h ago

Main PID: 19223 (sshd)

Tasks: 1 (limit: 1140)

CGroup: /system.slice/ssh.service

└─19223 /usr/sbin/sshd -D

Sep 12 15:28:49 ip-172-31-12-174 sshd[5004]: Accepted publickey for ubuntu from 49.207.199.33 port 32626 ssh2: RSA

13) $ **export GIT\_USER=Bhaskar**

$ echo $GIT\_USER

Bhaskar

14) $ **cp abs-guide.pdf git/**

$ ls

README.txt abs-guide.pdf **git** hello\_world.sh images.tar.gz

$ ls git/

abs-guide.pdf

15) $ **cat > hello\_01.sh**

#!/usr/local/bin/bash

echo "Hello, World!"

< CTRL – D >

$ **cat hello\_01.sh**

#!/usr/local/bin/bash

echo "Hello, World!"

$ **bash hello\_01.sh**

Hello, World!

$ **ls**

README.txt abs-guide.pdf **git** hello\_world.sh

16) $ **sudo du -sh .**

Password:

85G

17) $ **mv abs-guide.pdf abs\_guide\_2021.pdf**

$ ls

README.txt abs\_guide\_2021.pdf **git** hello\_world.sh images.tar.gz

18) $ **cd git/**

$ pwd

/home/ubuntu/git

$ ls

abs-guide.pdf

$ **cd ..**

$ pwd

/home/ubuntu

19) **$** **head -2 head\_tail.txt**

1: This is line one

2: This is line two

**$ tail -3 head\_tail.txt**

7: This is line seven

8: This is line eight

9: This is line nine

$ cat head\_tail.txt

1: This is line one

2: This is line two

3: This is line three

4: This is line four

5: This is line five

6: This is line six

7: This is line seven

8: This is line eight

9: This is line nine

**2**0) **$ alias head2=’head -2’**

**$** **head2 head\_tail.txt**

1: This is line one

2: This is line two

21) $ **grep ‘line five’ head\_tail.txt**

5: This is line five

$ **grep -c 'line' head\_tail.txt**

9

22) $ **sed -n 's/five/FIVE/p' head\_tail.txt**

5: This is line FIVE

23) $ **awk -F':' '/five/{ print $1,$2 }' head\_tail.txt**

5 This is line five

$ awk -F':' '/five/{ print "Part 1:",$1; print "Part 2:",$2; }' head\_tail.txt

Part 1: 5

Part 2: This is line five

24) **$ nohup** sleep 1000

nohup: ignoring input and appending output to 'nohup.out'

25) $ **ping -c 5 www.google.com**

PING www.google.com (142.250.196.68): 56 data bytes

64 bytes from 142.250.196.68: icmp\_seq=0 ttl=117 time=7.659 ms

64 bytes from 142.250.196.68: icmp\_seq=1 ttl=117 time=15.406 ms

64 bytes from 142.250.196.68: icmp\_seq=2 ttl=117 time=14.245 ms

64 bytes from 142.250.196.68: icmp\_seq=3 ttl=117 time=9.017 ms

64 bytes from 142.250.196.68: icmp\_seq=4 ttl=117 time=14.695 ms

--- www.google.com ping statistics ---

5 packets transmitted, 5 packets received, 0.0% packet loss

round-trip min/avg/max/stddev = 7.659/12.204/15.406/3.207 ms

$ **ping -c 2 127.0.0.2**

PING 127.0.0.2 (127.0.0.2): 56 data bytes

Request timeout for icmp\_seq 0

--- 127.0.0.2 ping statistics ---

2 packets transmitted, 0 packets received, 100.0% packet loss

26) **$** **uname**

Linux

**$** **uname -a**

Linux Host 3.10.0-1160.11.1.el7.x86\_64 #1 SMP Fri Dec 18 16:34:56 UTC 2020 x86\_64 x86\_64 x86\_64 GNU/Linux

27) $ ls -l cli\_args.sh

-rw-------. 1 ubuntu ubuntu 22 Sep 12 18:25 cli\_args.sh

$ **chmod +x cli\_args.sh**

$ ls -l cli\_args.sh

-rwx------. 1 ansible ansible 22 Sep 12 18:25 cli\_args.sh

$ **chmod 0400 cli\_args.sh**

-r--------. 1 ansible ansible 22 Sep 12 18:25 cli\_args.sh

28) $ df -h $PWD

Filesystem Size Used Avail Use% Mounted on

/dev/mapper/centos-home 2.0G 65M 2.0G 4% /home

$ du -sh .

33M .

29) $ **rm -i head\_tail.txt**

rm: remove regular file 'head\_tail.txt'? n

$ ls head\_tail.txt

head\_tail.txt

$ rm head\_tail.txt

$ ls head\_tail.txt

ls: cannot access head\_tail.txt: No such file or directory

30) $ sudo apt install python3

$ sudo apt install git

$ sudo apt install default-jdk