

-: Practice Commands at Linux Terminal :-

Open terminal window

- 1) `$ pwd`
`/home/ubuntu`
- 2) `$ vi README.txt` (Press i, Add content, Press ESC, Type Colon ':' and wq then ENTER)
`$ ls`
`README.txt`
- 3) `$ mkdir git`
`$ ls`
`README.txt git`
`$ mkdir -p newdir/newdir2/another_folder`
`$ ls`
`README.txt git newdir`
- 4) `$ rmdir newdir`
`$ ls`
`README.txt git`
- 5) `$ touch hello_world.sh`
`$ ls`
`README.txt git hello_world.sh`
- 6) `$ 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`
- 7) `$ 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`

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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
- 20) \$ alias head2='head -2'
\$ head2 head_tail.txt
1: This is line one
2: This is line two

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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 .

```

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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
```