

Title: Linux Command List Assessment

Instructions:-

The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks given below using the appropriate commands. Write down the command(s) used to complete each task. You can use any Linux distribution or command-line interface of your choice. Ensure that you provide the correct output or results for each task.

Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

File and Directory Operations:

ls: List files and directories

cd: Change directory

pwd: Print working directory

mkdir: Make directory

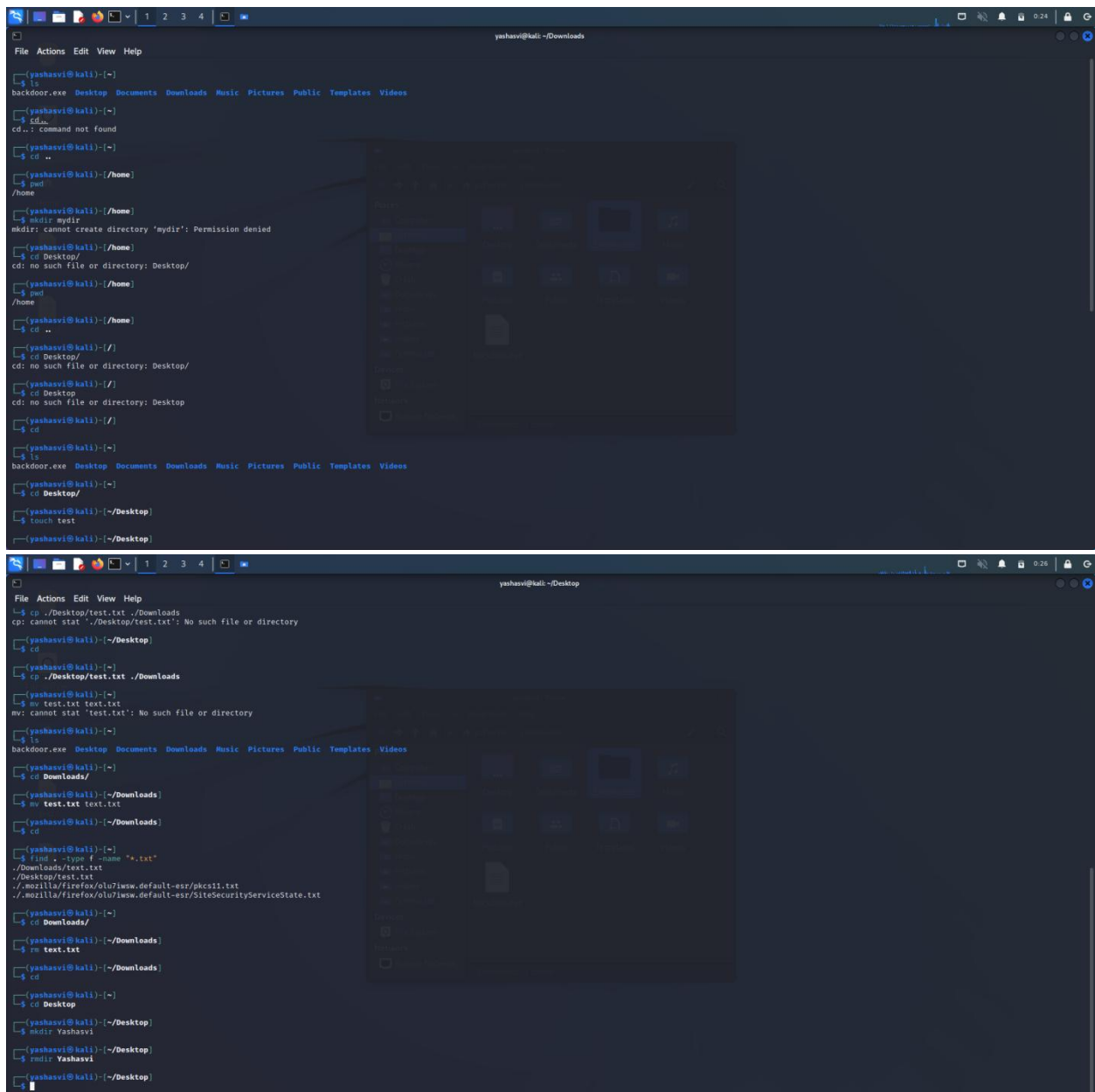
touch: Create an empty file

cp: Copy files and directories

mv: Move or rename files and directories

rm: Remove files and directories

find: Search for files and directories



File Viewing and Editing:

cat: Concatenate and display file content

less: View file content with pagination

head: Display the beginning of a file

tail: Display the end of a file

nano: Text editor for creating and editing files

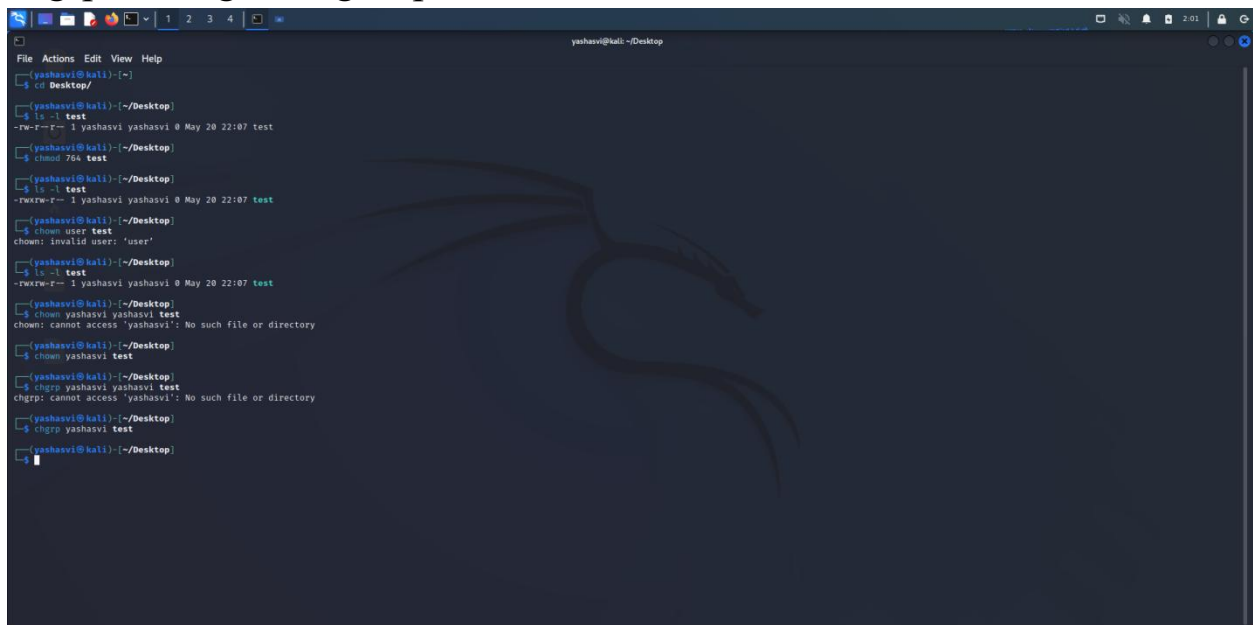
vi/vim: Powerful text editor for experienced users

File Permissions:

chmod: Change file permissions

chown: Change file owner

chgrp: Change file group

A terminal window titled 'yashasvi@kali: ~/Desktop' showing a series of commands and their outputs. The commands are: 1. 'ls -l test' showing file permissions '-rw-r--r--'. 2. 'chmod 764 test' changing permissions to '-rwxr--r--'. 3. 'chown user test' resulting in an error 'chown: invalid user: 'user''. 4. 'chown yashasvi test' resulting in an error 'chown: cannot access 'yashasvi': No such file or directory'. 5. 'chown yashasvi test' resulting in an error 'chown: cannot access 'yashasvi': No such file or directory'. 6. 'chgrp yashasvi test' resulting in an error 'chgrp: cannot access 'yashasvi': No such file or directory'. 7. 'chgrp yashasvi test' resulting in an error 'chgrp: cannot access 'yashasvi': No such file or directory'. The terminal background features a Kali Linux dragon logo.

```
yashasvi@kali:~/Desktop
File Actions Edit View Help
[yashasvi@kali]~$ cd Desktop/
[yashasvi@kali]~/Desktop$ ls -l test
-rw-r--r-- 1 yashasvi yashasvi 0 May 20 22:07 test
[yashasvi@kali]~/Desktop$ chmod 764 test
[yashasvi@kali]~/Desktop$ ls -l test
-rwxr--r-- 1 yashasvi yashasvi 0 May 20 22:07 test
[yashasvi@kali]~/Desktop$ chown user test
chown: invalid user: 'user'
[yashasvi@kali]~/Desktop$ ls -l test
-rwxr--r-- 1 yashasvi yashasvi 0 May 20 22:07 test
[yashasvi@kali]~/Desktop$ chown yashasvi test
chown: cannot access 'yashasvi': No such file or directory
[yashasvi@kali]~/Desktop$ chown yashasvi test
chown: cannot access 'yashasvi': No such file or directory
[yashasvi@kali]~/Desktop$ chgrp yashasvi test
chgrp: cannot access 'yashasvi': No such file or directory
[yashasvi@kali]~/Desktop$ chgrp yashasvi test
chgrp: cannot access 'yashasvi': No such file or directory
[yashasvi@kali]~/Desktop$
```

File Compression and Archiving:

tar: Archive files

gzip: Compress files

unzip: Extract files from a ZIP archive

```

(yashasvi@kali)-[~]
└─$ tar xvzf file.tar.gz
tar (child): file.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now

(yashasvi@kali)-[~]
└─$ gzip mydoc.txt
gzip: mydoc.txt: No such file or directory

(yashasvi@kali)-[~]
└─$ sudo apt install unzip
[sudo] password for yashasvi:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
unzip is already the newest version (6.0-28).
unzip set to manually installed.
The following packages were automatically installed and are no longer required:
  gir1.2-mutter-11 gir1.2-nma-1.0
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.

(yashasvi@kali)-[~]
└─$ sudo apt autoremove
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be REMOVED:
  gir1.2-mutter-11 gir1.2-nma-1.0
0 upgraded, 0 newly installed, 2 to remove and 3 not upgraded.
After this operation, 565 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 415817 files and directories currently installed.)
Removing gir1.2-mutter-11:amd64 (43.3-4) ...
Removing gir1.2-nma-1.0:amd64 (1.10.6-1) ...

(yashasvi@kali)-[~]
└─$ unzip -l webdesign.zip
unzip: cannot find or open webdesign.zip, webdesign.zip.zip or webdesign.zip.ZIP.

```

Process Management:

ps: List running processes

top: Display real-time system information and processes

kill: Terminate processes

bg: Run processes in the background

fg: Bring background processes to the foreground

```
(yashasvi@kali)-[~]
$ ps
  PID TTY          TIME CMD
 2640 pts/2    00:00:06 zsh
 4488 pts/2    00:00:00 ps
top - 18:58:30 up 2:05, 2 users, load average: 0.02, 0.05, 0.01
Tasks: 194 total, 1 running, 193 sleeping, 0 stopped, 0 zombie
%Cpu(s): 3.2 us, 1.3 sy, 0.0 ni, 95.4 id, 0.1 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3780.4 total, 1964.0 free, 1319.2 used, 717.9 buff/cache
MiB Swap: 975.0 total, 975.0 free, 0.0 used. 2461.1 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1520	yashasvi	20	0	402064	97660	55496	S	10.0	2.5	1:19.24	Xorg
1756	yashasvi	20	0	3852440	280144	115632	S	5.3	7.2	1:35.26	gnome-shell
2512	yashasvi	20	0	637668	61376	42424	S	2.0	1.6	0:18.37	gnome-terminal-
1648	yashasvi	20	0	217984	2396	2020	S	1.0	0.1	0:58.47	VBoxClient
184	root	-51	0	0	0	0	S	0.3	0.0	0:05.65	irq/18-vmwgfx
1911	yashasvi	20	0	238116	9320	6556	S	0.3	0.2	0:00.92	at-spi2-registr
4147	root	20	0	0	0	0	I	0.3	0.0	0:00.90	kworker/0:1-events
4495	yashasvi	20	0	11784	5332	3188	R	0.3	0.1	0:00.14	top
1	root	20	0	169176	13736	9156	S	0.0	0.4	0:05.73	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.10	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq

```

10 root      0 -20 0 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
Main PID: 648 (NetworkManager)
Memory: 20.0M
11 root      0 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_kthread
12 root      0 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_rude_kthread
13 root      0 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_trace_kthread
14 root      0 20 0 0 0 0 S 0.0 0.0 0:00.25 ksoftirqd/0
15 root      0 20 0 0 0 0 I 0.0 0.0 0:02.86 rcu_preempt
16 root      0 20 0 0 0 0 S 0.0 0.0 0:00.33 migration/0
18 root      0 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
19 root      0 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
20 root      0 20 0 0 0 0 S 0.0 0.0 0:00.33 migration/1
21 root      0 20 0 0 0 0 S 0.0 0.0 0:00.21 ksoftirqd/1
23 root      0 -20 0 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events_highpri
24 root      0 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
25 root      0 20 0 0 0 0 S 0.0 0.0 0:00.92 migration/2
26 root      0 20 0 0 0 0 S 0.0 0.0 0:00.34 ksoftirqd/2
28 root      0 -20 0 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-events_highpri
31 root      0 20 0 0 0 0 S 0.0 0.0 0:00.06 kdevtmpfs
32 root      0 -20 0 0 0 0 I 0.0 0.0 0:00.00 inet_frag_wq
33 root      0 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd
35 root      0 20 0 0 0 0 S 0.0 0.0 0:00.26 khungtaskd
36 root      0 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper

```



```
(yashasvi@kali)-[~]
$ top
top - 18:58:47 up 2:05, 2 users, load average: 0.09, 0.06, 0.02
Tasks: 194 total, 1 running, 193 sleeping, 0 stopped, 0 zombie
%Cpu(s): 3.5 us, 2.3 sy, 0.0 ni, 93.8 id, 0.1 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 3780.4 total, 1962.8 free, 1320.4 used, 717.9 buff/cache
MiB Swap: 975.0 total, 975.0 free, 0.0 used. 2459.9 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
1520 yashasvi  20   0  402064   97660  55496 S   12.8   2.5   1:20.54 Xorg
1756 yashasvi  20   0 3852440 280144 115632 S    3.0   7.2   1:35.69 gnome-shell
2512 yashasvi  20   0  637668   61112  42424 S    3.0   1.6   0:18.73 gnome-terminal-
1648 yashasvi  20   0  217984   2396   2020 S    1.6   0.1   0:58.67 VBoxClient
1911 yashasvi  20   0  238116   9320   6556 S    0.7   0.2   0:00.95 at-spi2-registr
  625 root      20   0  286756   3176    996 S    0.3   0.1   0:07.72 VBoxDRMClient
1938 yashasvi  20   0  385944  13764   6716 S    0.3   0.4   0:04.87 ibus-daemon
2297 yashasvi  20   0  234156   7004   6432 S    0.3   0.2   0:01.39 ibus-engine-sim
3998 root      20   0        0        0        0 I    0.3   0.0   0:01.03 kworker/1:0-events
4147 root      20   0        0        0        0 I    0.3   0.0   0:00.92 kworker/0:1-mm_percpu_wq
4281 root      20   0        0        0        0 I    0.3   0.0   0:00.15 kworker/u6:0-events_unbound
4442 root      20   0        0        0        0 I    0.3   0.0   0:00.33 kworker/2:0-events
4503 yashasvi  20   0   11640   5384   3228 R    0.3   0.1   0:00.15 top
    1 root      20   0 169176  13736   9156 S    0.0   0.4   0:05.73 systemd
    2 root      20   0        0        0        0 S    0.0   0.0   0:00.10 kthreadd
    3 root      0 -20        0        0        0 I    0.0   0.0   0:00.00 rcu_gp
    4 root      0 -20        0        0        0 I    0.0   0.0   0:00.00 rcu_par_gp
```

4	root	0	-20	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	I	0.0	0.0	0:00.00	netns
8	root	0	-20	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
10	root	0	-20	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
11	root	20	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
12	root	20	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
13	root	20	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
14	root	20	0	0	0	S	0.0	0.0	0:00.26	ksoftirqd/0
15	root	20	0	0	0	I	0.0	0.0	0:02.87	rcu_preempt
16	root	rt	0	0	0	S	0.0	0.0	0:00.33	migration/0
18	root	20	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
19	root	20	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
20	root	rt	0	0	0	S	0.0	0.0	0:00.33	migration/1
21	root	20	0	0	0	S	0.0	0.0	0:00.21	ksoftirqd/1
23	root	0	-20	0	0	I	0.0	0.0	0:00.00	kworker/1:0H-events_highpri
24	root	20	0	0	0	S	0.0	0.0	0:00.00	cpuhp/2
25	root	rt	0	0	0	S	0.0	0.0	0:00.93	migration/2
26	root	20	0	0	0	S	0.0	0.0	0:00.34	ksoftirqd/2
28	root	0	-20	0	0	I	0.0	0.0	0:00.00	kworker/2:0H-events_highpri
31	root	20	0	0	0	S	0.0	0.0	0:00.06	kdevtmpfs
32	root	0	-20	0	0	I	0.0	0.0	0:00.00	inet_frag_wq


```
(yashasvi@kali)-[~]  
$ kill  
kill: not enough arguments
```

```
(yashasvi@kali)-[~]  
$ bg  
bg: no current job
```

```
(yashasvi@kali)-[~]  
$ fg  
fg: no current job
```

```
(yashasvi@kali)-[~]  
$
```

System Information:

uname: Print system information

df: Display disk space usage

free: Display memory usage

uptime: Show system uptime

who: Display logged-in users

w: Display logged-in users and their activities

```

(yashasvi@kali)-[~]
└─$ uname -a
Linux kali 6.1.0-kali9-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.27-1kali1 (2023-05-12) x86_64 GNU/Linux

(yashasvi@kali)-[~]
└─$ df
Filesystem            1K-blocks    Used Available Use% Mounted on
udev                  1895584         0   1895584    0% /dev
tmpfs                  387112      1208    385904    1% /run
/dev/sda1             40070424 14195428  23807336 38% /
tmpfs                 1935540         0   1935540    0% /dev/shm
tmpfs                  5120         0     5120    0% /run/lock
tmpfs                  387108      84     387024    1% /run/user/1000

(yashasvi@kali)-[~]
└─$ free
             total        used        free      shared  buff/cache   available
Mem:       3871084      1303260      2059152         1508       734704      2567824
Swap:      998396           0       998396

(yashasvi@kali)-[~]
└─$ uptime
18:55:43 up 2:02, 2 users, load average: 0.21, 0.08, 0.02

(yashasvi@kali)-[~]
└─$ who
yashasvi :1          2023-05-30 15:57 (:1)
yashasvi pts/1      2023-05-30 15:57

(yashasvi@kali)-[~]
└─$ w
18:55:55 up 2:02, 2 users, load average: 0.18, 0.08, 0.02
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
yashasvi  :1          :1           15:57   ?xdm?   4:33   0.03s /usr/libexec/gdm-x-session --run-script /usr/bin/gnome-session
yashasvi pts/1      -            15:57   2:54m   1.34s   0.12s sudo su

(yashasvi@kali)-[~]
└─$

```

Networking:

ifconfig: Configure network interfaces

ping: Send ICMP echo requests to a network host

ssh: Securely connect to a remote system

scp: Securely copy files between systems

wget: Download files from the web

```
File Actions Edit View Help
[yashasvi@kali:~]$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe1:242b prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:c1:24:2b txqueuelen 1000 (Ethernet)
    RX packets 47458 bytes 7027222 (67.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3535 bytes 267582 (261.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 22 bytes 1752 (1.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 22 bytes 1752 (1.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[yashasvi@kali:~]$ ping 10.0.2.15
PING 10.0.2.15 (10.0.2.15) 56(84) bytes of data.
64 bytes from 10.0.2.15: icmp_seq=1 ttl=64 time=0.019 ms
64 bytes from 10.0.2.15: icmp_seq=2 ttl=64 time=0.069 ms
64 bytes from 10.0.2.15: icmp_seq=3 ttl=64 time=0.026 ms
64 bytes from 10.0.2.15: icmp_seq=4 ttl=64 time=0.020 ms
64 bytes from 10.0.2.15: icmp_seq=5 ttl=64 time=0.041 ms
64 bytes from 10.0.2.15: icmp_seq=6 ttl=64 time=0.025 ms
64 bytes from 10.0.2.15: icmp_seq=7 ttl=64 time=0.026 ms
64 bytes from 10.0.2.15: icmp_seq=8 ttl=64 time=0.121 ms
64 bytes from 10.0.2.15: icmp_seq=9 ttl=64 time=0.028 ms
64 bytes from 10.0.2.15: icmp_seq=10 ttl=64 time=0.020 ms
64 bytes from 10.0.2.15: icmp_seq=11 ttl=64 time=0.027 ms
64 bytes from 10.0.2.15: icmp_seq=12 ttl=64 time=0.026 ms
64 bytes from 10.0.2.15: icmp_seq=13 ttl=64 time=0.024 ms
64 bytes from 10.0.2.15: icmp_seq=14 ttl=64 time=0.026 ms
64 bytes from 10.0.2.15: icmp_seq=15 ttl=64 time=0.022 ms
64 bytes from 10.0.2.15: icmp_seq=16 ttl=64 time=0.023 ms
64 bytes from 10.0.2.15: icmp_seq=17 ttl=64 time=0.023 ms
64 bytes from 10.0.2.15: icmp_seq=18 ttl=64 time=0.024 ms
64 bytes from 10.0.2.15: icmp_seq=19 ttl=64 time=0.027 ms
64 bytes from 10.0.2.15: icmp_seq=20 ttl=64 time=0.021 ms
64 bytes from 10.0.2.15: icmp_seq=21 ttl=64 time=0.025 ms
64 bytes from 10.0.2.15: icmp_seq=22 ttl=64 time=0.057 ms
64 bytes from 10.0.2.15: icmp_seq=23 ttl=64 time=0.028 ms
64 bytes from 10.0.2.15: icmp_seq=24 ttl=64 time=0.028 ms
64 bytes from 10.0.2.15: icmp_seq=25 ttl=64 time=0.025 ms
64 bytes from 10.0.2.15: icmp_seq=26 ttl=64 time=0.025 ms
64 bytes from 10.0.2.15: icmp_seq=27 ttl=64 time=0.020 ms
64 bytes from 10.0.2.15: icmp_seq=28 ttl=64 time=0.044 ms
64 bytes from 10.0.2.15: icmp_seq=29 ttl=64 time=0.023 ms

[yashasvi@kali:~]$ ifconfig
10.0.2.0 0.0.0.0 255.255.255.0 U 100 0 0 eth0

[yashasvi@kali:~]$ ping 10.0.2.2
PING 10.0.2.2 (10.0.2.2) 56(84) bytes of data.
64 bytes from 10.0.2.2: icmp_seq=1 ttl=64 time=1.79 ms
64 bytes from 10.0.2.2: icmp_seq=2 ttl=64 time=0.160 ms
64 bytes from 10.0.2.2: icmp_seq=3 ttl=64 time=0.070 ms
64 bytes from 10.0.2.2: icmp_seq=4 ttl=64 time=0.582 ms
64 bytes from 10.0.2.2: icmp_seq=5 ttl=64 time=0.282 ms
64 bytes from 10.0.2.2: icmp_seq=6 ttl=64 time=1.06 ms
64 bytes from 10.0.2.2: icmp_seq=7 ttl=64 time=0.798 ms
64 bytes from 10.0.2.2: icmp_seq=8 ttl=64 time=0.330 ms
64 bytes from 10.0.2.2: icmp_seq=9 ttl=64 time=0.510 ms
64 bytes from 10.0.2.2: icmp_seq=10 ttl=64 time=1.15 ms
64 bytes from 10.0.2.2: icmp_seq=11 ttl=64 time=0.202 ms
64 bytes from 10.0.2.2: icmp_seq=12 ttl=64 time=0.273 ms
64 bytes from 10.0.2.2: icmp_seq=13 ttl=64 time=0.311 ms
64 bytes from 10.0.2.2: icmp_seq=14 ttl=64 time=0.270 ms
64 bytes from 10.0.2.2: icmp_seq=15 ttl=64 time=0.526 ms
64 bytes from 10.0.2.2: icmp_seq=16 ttl=64 time=0.301 ms
64 bytes from 10.0.2.2: icmp_seq=17 ttl=64 time=1.01 ms
64 bytes from 10.0.2.2: icmp_seq=18 ttl=64 time=0.462 ms
64 bytes from 10.0.2.2: icmp_seq=19 ttl=64 time=0.607 ms
^C
--- 10.0.2.2 ping statistics ---
19 packets transmitted, 19 received, 0% packet loss, time 1821ms
rtt min/avg/max/mdev = 0.070/0.570/1.790/0.480 ms

[yashasvi@kali:~]$ ssh yashasvi10.0.2.2
ssh: Could not resolve hostname yashasvi10.0.2.2: Name or service not known

[yashasvi@kali:~]$ ssh yashasvi 10.0.2.2
ssh: Could not resolve hostname yashasvi: Name or service not known

[yashasvi@kali:~]$ ssh yashasvi@www.google.com
ssh: Could not resolve hostname yashasvi@www.google.com

[yashasvi@kali:~]$ ssh yashasvi@www.google.com
ssh: Could not resolve hostname yashasvi: Name or service not known

[yashasvi@kali:~]$ ssh yashasvi@www.google.com
ssh: connect to host www.google.com port 22: Network is unreachable

[yashasvi@kali:~]$ ssh yashasvi@www.google.com
ssh: connect to host www.google.com port 22: Network is unreachable
```

System Administration:

- sudo: Execute commands with superuser privileges
- apt-get: Package management for Debian-based distributions
- yum: Package management for Red Hat-based distributions
- systemctl: Manage system services
- crontab: Schedule recurring tasks

useradd: Add a new user

passwd: Change user password

```
(yashasvi@kali)-[~]
$ sudo service ssh start NetworkManager.service
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6185] policy: set 'wired connection 1' (eth0) as default
(yashasvi@kali)-[~]
$ sudo systemctl enable ssh
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6674] device (eth0): state change: ip-config -> ip-check
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6827] device (eth0): state change: ip-check -> secondary
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6838] device (eth0): state change: secondary -> activate
Synchronizing state of ssh.service with SysV service script with /lib/systemd/systemd-sysv-install.  Now CONNECTED SITE.
Executing: /lib/systemd/systemd-sysv-install enable ssh
Created symlink /etc/systemd/system/ssh.service → /lib/systemd/system/ssh.service.  Manager state is now CONNECTED_GLOB.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
May 30 15:53:26 kali NetworkManager[648]: <info> [1685442285.6242] agent-manager: agent[2b223e11ba6704c3;1.25/org.gnome
May 30 15:57:25 kali NetworkManager[648]: <info> [1685442445.4028] agent-manager: agent[f0efb4e0f8576d7c;1.63/org.gnome

(yashasvi@kali)-[~]
$ sudo service ssh status

• ssh.service - OpenBSD Secure Shell server
  Loaded: loaded (/lib/systemd/system/ssh.service; enabled; preset: disabled)
  Active: active (running) since Tue 2023-05-30 16:09:49 IST; 22s ago
    Docs: man:sshd(8)
           man:sshd_config(5)
  Main PID: 2881 (sshd)
    Tasks: 1 (limit: 4442)
  Memory: 3.1M
    CPU: 58ms
  CGroup: /system.slice/ssh.service
          └─2881 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

May 30 16:09:48 kali systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
May 30 16:09:49 kali sshd[2881]: Server listening on 0.0.0.0 port 22.
May 30 16:09:49 kali sshd[2881]: Server listening on :: port 22.
May 30 16:09:49 kali systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
```

```
(yashasvi@kali)-[~]
$ sudo useradd test_user1 NetworkManager.service
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6185] policy: set 'wired connection 1' (eth0) as default
(yashasvi@kali)-[~]
$ sudo useradd -d /home/test_user test_user1
useradd: user 'test_user1' already exists
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6674] device (eth0): state change: ip-config -> ip-check
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6827] device (eth0): state change: ip-check -> secondary
May 30 15:52:52 kali NetworkManager[648]: <info> [1685442172.6838] device (eth0): state change: secondary -> activate
(yashasvi@kali)-[~]
$ sudo useradd -u 1234 test_user1
useradd: user 'test_user1' already exists
May 30 15:53:26 kali NetworkManager[648]: <info> [1685442285.6242] agent-manager: agent[2b223e11ba6704c3;1.25/org.gnome
May 30 15:57:25 kali NetworkManager[648]: <info> [1685442445.4028] agent-manager: agent[f0efb4e0f8576d7c;1.63/org.gnome

(yashasvi@kali)-[~]
$ passwd
Changing password for yashasvi.
Current password:
New password:
Retype new password:
The password has not been changed.
New password:
Retype new password:
passwd: password updated successfully
```

```
(yashasvi@kali)-[~]  
$ sudo apt-get upgrade && sudo apt-get update  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Calculating upgrade... Done  
The following packages were automatically installed and are no longer required:  
  gir1.2-mutter-11 gir1.2-nma-1.0  
Use 'sudo apt autoremove' to remove them.  
The following packages have been kept back:  
  gnome-control-center gnome-control-center-data libmutter-11-0  
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.  
Hit:1 http://kali.download/kali kali-rolling InRelease  
Reading package lists... Done
```

Ensure that you provide the correct command(s) used to accomplish each task. Write your answers below each task.

Once you have completed the assessment, review your answers and verify that the output or results are correct.

Make this in document format and send them with images