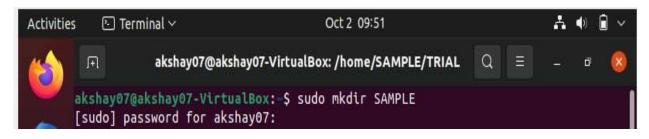
NETWORKING & SYSTEM ADMINISTRATION LAB MODEL EXAM MODEL EXAM

Akshay Murali Roll no: 07 RMCA-A BATCH 1. Create a directory SAMPLE under your home directory



2. Create a sub-directory by name TRIAL under SAMPLE.

```
bash: cd: /SAMPLE: No such file or directory
akshay07@akshay07-VirtualBox:/home$ cd SAMPLE
akshay07@akshay07-VirtualBox:/home/SAMPLE$ sudo mkdir TRIAL
akshay07@akshay07-VirtualBox:/home/SAMPLE$ cd TRIAL
```

3. Create file1, file2, file3, file4, file5, file6under TRIALdirectory using a single command.

```
akshay07@akshay07-VirtualBox:/home/SAMPLE$ cd TRIAL
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo touch file1.txt file2.txt
file3.txt file4.txt file5.txt file6.txt
```

4. Create files myfileand yourfileunder Present Working Directory.

akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL\$ sudo touch myfile.txt yourfile .txt

5. Display the contents in myfile and yourfile.

```
akshay@7@akshay@7-VirtualBox:/home/SAMPLE/TRIAL$ sudo gedit myfile.txt

^C
akshay@7@akshay@7-VirtualBox:/home/SAMPLE/TRIAL$ cat myfile.txt
my name is akshay murali

akshay@7@akshay@7-VirtualBox:/home/SAMPLE/TRIAL$ sudo gedit yourfile.txt

^C
akshay@7@akshay@7-VirtualBox:/home/SAMPLE/TRIAL$ cat yourfile.txt

i am studying in amal jyothi college of engineering
```

6. Copy myfile file to emp

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ cd /home
akshay07@akshay07-VirtualBox:/home$ sudo mkdir emp
[sudol password for akshay07;
```

7. Create a supplementary group called Collegewith a group id 30000. Check group is created or not.

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo groupadd -g 30000 College
[sudo] password for akshay07:
groupadd: GID '30000' already exists
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo groupdel shakesphere
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo groupadd -g 30000 College
```

8.Execute the following commands and write their output a.Ping

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
^C
--- 8.8.8.8 ping statistics ---
12 packets transmitted, 0 received, 100% packet loss, time 11268ms
```

b.Traceroute

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
1 _gateway (10.0.2.2) 0.250 ms 0.184 ms 0.166 ms
2 * * *
  2
  3
  4
  5
  8
  9
10
12
13
14
15
16
17
18
19
20
21
22
```

c.Netstat

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ netstat -t
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
```

d.lfconfig

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ ifconfig -a
enp0s3: 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::e039:15f3:471e:c364 prefixlen 64 scopeid 0x20<link>
       ether 08:00:27:f5:e7:35 txqueuelen 1000 (Ethernet)
       RX packets 581 bytes 263658 (263.6 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 697 bytes 83123 (83.1 KB)
       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 313 bytes 27927 (27.9 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 313 bytes 27927 (27.9 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

e.tcpdump

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo tcpdump -i enp0s3 tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on enp0s3, link-type EN10MB (Ethernet), capture size 262144 bytes 09:47:59.629324 IP6 akshay07-VirtualBox.mdns > ff02::fb.mdns: 0 PTR (QM)? _nmea
-0183._tcp.local. (39)
09:47:59.629502 IP akshay07-VirtualBox.mdns > 224.0.0.251.mdns: 0 PTR (QM)? _nm
ea-0183._tcp.local. (39)
09:47:59.632856 IP akshay07-VirtualBox.42915 > 192.168.137.1.domain: 49278+ [1a
a. (101)
09:47:59.700897 IP 192.168.137.1.domain > akshay07-VirtualBox.42915: 49278 NXDo
main 0/1/1 (165)
09:47:59.700952 IP 192.168.137.1.domain > akshay07-VirtualBox.42915: 49278 NXDo
main 0/1/1 (165)
09:47:59.701452 IP akshay07-VirtualBox.42915 > 192.168.137.1.domain: 49278+ PTR
09:47:59.708132 IP akshay07-VirtualBox.42479 > 192.168.137.1.domain: 57983+ [1a
u] PTR? 251.0.0.224.in-addr.arpa. (53)
09:47:59.737279 IP 192.168.137.1.domain > akshay07-VirtualBox.42479: 57983 NXDo
main 0/1/1 (110)
09:47:59.737347 IP 192.168.137.1.domain > akshay07-VirtualBox.42479: 57983 NXDo
main 0/1/1 (110)
09:47:59.737589 IP akshay07-VirtualBox.42479 > 192.168.137.1.domain: 57983+ PTR
? 251.0.0.224.in-addr.arpa. (42)
09:47:59.748093 IP akshay07-VirtualBox.52470 > 192.168.137.1.domain: 697+ [1au]
```