

TASK 3

Question 1 of task 3

In the below screenshot I have displayed on how to Get the IP address of a particular domain (guvi.in). It was done by using the command (**nslookup**)

```
ec2-user@ip-172-31-88-125:~$ nslookup guvi.com
Server:      172.31.0.2
Address:     172.31.0.2#53

Non-authoritative answer:
Name:   guvi.com
Address: 172.67.146.154
Name:   guvi.com
Address: 104.21.79.166
Name:   guvi.com
Address: 2606:4700:3031::6815:4fa6
Name:   guvi.com
Address: 2606:4700:3037::ac43:929a

[ec2-user@ip-172-31-88-125 ~]$
```

In the below screenshot I have displayed my CPU/memory usage of my server (It was done by using the command **htop**)

```
ec2-user@ip-172-31-88-125:~$ htop

CPU: 2.0% Tasks: 34, 14 thr, 71 kthr; 1 running
Mem: 130M/949M Load average: 0.00 0.01 0.00
Swp: 0K/0K Uptime: 09:16:20

Main I/O
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
1 root 20 0 103M 17064 10592 S 0.0 1.8 0:02.07 /usr/lib/systemd/systemd --switched-root --system --deserialize=32
1093 root 20 0 60736 22112 21016 S 0.0 2.3 0:01.16 /usr/lib/systemd/systemd-journald
1768 root 20 0 30916 11308 8272 S 0.0 1.2 0:00.07 /usr/lib/systemd/systemd-udev
1771 systemd-re 20 0 21236 14624 11136 S 0.0 1.5 0:00.07 /usr/lib/systemd/systemd-resolved
1772 root 16 -4 20228 2348 1616 S 0.0 0.2 0:00.12 /sbin/auditd
1773 root 16 -4 20228 2348 1616 S 0.0 0.2 0:00.00 /sbin/auditd
1963 root 20 0 15300 6560 5708 S 0.0 0.7 0:00.00 /usr/bin/systemd-inhibit --what=handle-suspend-key:handle-hibernat
1966 libstorage 20 0 2760 1980 1820 S 0.0 0.2 0:00.08 /usr/bin/lsm -d
1968 root 20 0 89008 5884 4884 S 0.0 0.6 0:09.90 /usr/sbin/rngd -f -x pkcs11 -x nist
1970 root 20 0 15784 7708 6740 S 0.0 0.8 0:00.01 /usr/lib/systemd/systemd-homed
1971 root 20 0 17640 9796 7588 S 0.0 1.0 0:00.16 /usr/lib/systemd/systemd-logind
1972 dbus 20 0 8352 3852 3248 S 0.0 0.4 0:00.01 /usr/bin/dbus-broker-launch --scope system --audit
1973 systemd-ne 20 0 230M 9700 8420 S 0.0 1.0 0:00.09 /usr/lib/systemd/systemd-networkd
1979 dbus 20 0 5268 2760 2308 S 0.0 0.3 0:00.16 dbus-broker --log 4 --controller 9 --machine-id ec216e80eddc4f4d91
1981 root 20 0 89008 5884 4884 S 0.0 0.6 0:09.87 /usr/sbin/rngd -f -x pkcs11 -x nist
1998 root 20 0 2672 1140 1056 S 0.0 0.1 0:00.00 /usr/sbin/acpid -f
2001 root 20 0 274M 3504 2632 S 0.0 0.4 0:00.01 /usr/sbin/gssproxy -D
2002 root 20 0 274M 3504 2632 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2003 root 20 0 274M 3504 2632 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2004 root 20 0 274M 3504 2632 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2005 root 20 0 274M 3504 2632 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2006 root 20 0 274M 3504 2632 S 0.0 0.4 0:00.00 /usr/sbin/gssproxy -D
2167 root 20 0 1213M 17872 10196 S 0.0 1.8 0:01.18 /usr/bin/amazon-ssm-agent
2171 root 20 0 13316 8296 7108 S 0.0 0.9 0:00.10 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
2178 root 20 0 1213M 17872 10196 S 0.0 1.8 0:00.06 /usr/bin/amazon-ssm-agent

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice F8Nice F9Kill F10Quit
```

In the below screenshot I have displayed the connectivity between 2 nodes which is google.com and my server. It was done using the command (**ping**)

```
ec2-user@ip-172-31-88-125:~$ ping google.com
PING google.com (172.253.63.139) 56(84) bytes of data:
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=1 ttl=105 time=1.58 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=2 ttl=105 time=1.84 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=3 ttl=105 time=1.39 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=4 ttl=105 time=1.93 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=5 ttl=105 time=1.65 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=6 ttl=105 time=1.71 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=7 ttl=105 time=1.49 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=8 ttl=105 time=1.33 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=9 ttl=105 time=1.18 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=10 ttl=105 time=1.40 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=11 ttl=105 time=1.34 ms
64 bytes from bi-in-f139.1e100.net (172.253.63.139): icmp_seq=12 ttl=105 time=1.20 ms
^C
--- google.com ping statistics ---
12 packets transmitted, 12 received, 0% packet loss, time 11019ms
rtt min/avg/max/mdev = 1.175/1.502/1.932/0.231 ms
[ec2-user@ip-172-31-88-125 ~]$
```

Question 2 of task 3

In the below screenshot I have displayed whether my port is open or not. This was done by the command (**nc -zv**)or (**telnet**)

```
ec2-user@ip-172-31-88-125:~$ nc -zv guvi.com 9000
Ncat: Version 7.93 ( https://nmap.org/ncat )
Ncat: Connection to 104.21.79.166 failed: TIMEOUT.
Ncat: Trying next address...
Ncat: Connection to 172.67.146.154 failed: TIMEOUT.
Ncat: Trying next address...
Ncat: Connection to 2606:4700:3031::6815:4fa6 failed: Network is unreachable.
Ncat: Trying next address...
Ncat: Network is unreachable.
[ec2-user@ip-172-31-88-125 ~]$ telnet guvi.com 9000
Trying 172.67.146.154...
```