

Network Task

1. Get me the IP address of a particular domain (guvi.in). How do I find my CPU/memory usage of my server? Test the connectivity between 2 nodes?

```
[ec2-user@ip-172-31-20-32 ~]$ nslookup guvi.in
Server:          172.31.0.2
Address:         172.31.0.2#53

Non-authoritative answer:
Name:   guvi.in
Address: 172.67.70.207
Name:   guvi.in
Address: 104.26.4.88
Name:   guvi.in
Address: 104.26.5.88
Name:   guvi.in
Address: 2606:4700:20::ac43:46cf
Name:   guvi.in
Address: 2606:4700:20::681a:458
Name:   guvi.in
Address: 2606:4700:20::681a:558

[ec2-user@ip-172-31-20-32 ~]$ |
```

```
[ec2-user@ip-172-31-20-32 ~]$ top
top - 12:56:59 up 25 min, 1 user, load average: 0.00, 0.00, 0.00
Tasks: 102 total, 1 running, 100 sleeping, 1 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 949.5 total, 630.9 free, 124.6 used, 194.0 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used, 687.7 avail Mem
```

| PID | USER | PR | NI | VIRT | RES | SHR | S | %CPU | %MEM | TIME+ | COMMAND |
|-----|------|-----|-----|--------|-------|-------|---|------|------|---------|-----------------------------|
| 1 | root | 20 | 0 | 105564 | 16828 | 10484 | S | 0.0 | 1.7 | 0:00.64 | systemd |
| 2 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | 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 |
| 11 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | rcu_tasks_kthread |
| 12 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | rcu_tasks_rude_kthread |
| 13 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | rcu_tasks_trace_kthread |
| 14 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.04 | ksoftirqd/0 |
| 15 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.02 | rcu_preempt |
| 16 | root | rt | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | migration/0 |
| 18 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | cpuhp/0 |
| 20 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | kdevtmpfs |
| 21 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | inet_frag_wq |
| 22 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | kauditd |
| 23 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | khungtaskd |
| 24 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | oom_reaper |
| 27 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | writeback |
| 28 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.02 | kcompactd0 |
| 29 | root | 39 | 19 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | khugepaged |
| 30 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | cryptd |
| 31 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kintegrityd |
| 32 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kblockd |
| 33 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | blkcg_punt_bio |
| 34 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | xen-balloon |
| 35 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | tpm_dev_wq |
| 36 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | md |
| 37 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | edac-poller |
| 38 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | watchdog |
| 39 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.02 | kworker/0:1H-kblockd |

```
~/my
Last login: Fri Oct 25 13:01:04 2024 from 10.0.2.2
[vagrant@localhost ~]$ ping 192.168.56.1
PING 192.168.56.1 (192.168.56.1) 56(84) bytes of data.
64 bytes from 192.168.56.1: icmp_seq=1 ttl=127 time=1.17 ms
64 bytes from 192.168.56.1: icmp_seq=2 ttl=127 time=2.36 ms
64 bytes from 192.168.56.1: icmp_seq=3 ttl=127 time=4.36 ms
64 bytes from 192.168.56.1: icmp_seq=4 ttl=127 time=2.34 ms
64 bytes from 192.168.56.1: icmp_seq=5 ttl=127 time=2.01 ms
64 bytes from 192.168.56.1: icmp_seq=6 ttl=127 time=1.87 ms
64 bytes from 192.168.56.1: icmp_seq=7 ttl=127 time=3.31 ms
64 bytes from 192.168.56.1: icmp_seq=8 ttl=127 time=0.969 ms
64 bytes from 192.168.56.1: icmp_seq=9 ttl=127 time=1.06 ms
64 bytes from 192.168.56.1: icmp_seq=10 ttl=127 time=1.75 ms
```

2. I have deployed an application in guvi.com:9000, and logs show my app is running, but I'm unable to view the page. Check whether my port is open or not ?

```
[vagrant@localhost ~]$ nmap -p 9000 guvi.com
Starting Nmap 7.93 ( https://nmap.org ) at 2024-10-25 13:10 UTC
Nmap scan report for guvi.com (172.67.146.154)
Host is up (0.0078s latency).
Other addresses for guvi.com (not scanned): 104.21.79.166 2606:4700:3037::ac43:929a 2606:4700:3031::6815:4fa6

PORT      STATE      SERVICE
9000/tcp   filtered  cslistener

Nmap done: 1 IP address (1 host up) scanned in 0.30 seconds
[vagrant@localhost ~]$
```