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**Task: Networking Commands**

**Date: 21/05/2025**

**Task Description:**

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?

- IP address of guvi.in

```
ubuntu@ip-172-31-11-11:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-11-11:~$ ls -ltr
total 12
drwxrwxr-x 4 ubuntu ubuntu 4096 May 20 17:18 task1
-rwxrw-r-- 1 ubuntu ubuntu  44 May 20 17:22 demo.txt
-rwxrw-r-- 1 ubuntu ubuntu   3 May 20 17:24 demo2.txt
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$ nslookup guvi.in
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   guvi.in
Address: 104.26.5.88
Name:   guvi.in
Address: 104.26.4.88
Name:   guvi.in
Address: 172.67.70.207
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

ubuntu@ip-172-31-11-11:~$
```

## - CPU/Memory Usage of my Server

Command = top

```
top - 17:45:10 up 4 min, 1 user, load average: 0.03, 0.14, 0.08
Tasks: 108 total, 1 running, 107 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.0 sy, 0.0 ni, 89.0 id, 0.0 wa, 0.0 hi, 0.0 si, 10.7 st
MiB Mem : 957.4 total, 424.6 free, 304.6 used, 380.2 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 652.8 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	22028	13276	9564	S	0.0	1.4	0:01.20	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pool_workqueue_release
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-rcu_g
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-rcu_p
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-slub_
7	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-netns
8	root	20	0	0	0	0	I	0.0	0.0	0:00.02	kworker/0:0-events
9	root	20	0	0	0	0	I	0.0	0.0	0:00.02	kworker/0:1-events
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
11	root	20	0	0	0	0	I	0.0	0.0	0:00.06	kworker/u30:0-events_power_efficie
12	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-mm_pe
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
15	root	20	0	0	0	0	S	0.0	0.0	0:00.05	ksoftirqd/0
16	root	20	0	0	0	0	I	0.0	0.0	0:00.10	rcu_sched
17	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
18	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/0
19	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	kworker/R-inet_
22	root	20	0	0	0	0	I	0.0	0.0	0:00.01	kworker/u30:1-events_unbound
23	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kauditd
24	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khungtaskd
25	root	20	0	0	0	0	S	0.0	0.0	0:00.00	oom_reaper
26	root	20	0	0	0	0	I	0.0	0.0	0:00.00	kworker/u30:2-loop4
27	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-write
28	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kcompactd0
29	root	25	5	0	0	0	S	0.0	0.0	0:00.00	ksm
30	root	39	19	0	0	0	S	0.0	0.0	0:00.00	khugepaged
31	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-kinte
32	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-kbloc
33	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-blkcg
34	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	irq/9-acpi
35	root	20	0	0	0	0	S	0.0	0.0	0:00.00	xen-balloon
36	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-tpm_d
37	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-ata_s
38	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-md
39	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-md_bi
40	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-edac-
41	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-devfr
42	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	watchdogd
43	root	0	-20	0	0	0	I	0.0	0.0	0:00.02	kworker/0:1H-kblockd
44	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kswapd0
45	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ecryptfs-kthread
46	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-kthro
47	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-acpi

## - Test the connectivity between 2 nodes?

```
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$ ping -c 5 guvi.in
PING guvi.in (104.26.4.88) 56(84) bytes of data.
64 bytes from 104.26.4.88: icmp_seq=1 ttl=58 time=1.51 ms
64 bytes from 104.26.4.88: icmp_seq=2 ttl=58 time=2.00 ms
64 bytes from 104.26.4.88: icmp_seq=3 ttl=58 time=1.53 ms
64 bytes from 104.26.4.88: icmp_seq=4 ttl=58 time=1.62 ms
64 bytes from 104.26.4.88: icmp_seq=5 ttl=58 time=1.53 ms

--- guvi.in ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 1.507/1.637/2.000/0.185 ms
ubuntu@ip-172-31-11-11:~$
```

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 ?

Commands used: **nmap -p 9000 guvi.com**

```
ubuntu@ip-172-31-11-11:~$ sudo netstat -tlnp -p 9000 guvi.com
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.54:53          0.0.0.0:*                LISTEN      310/systemd-resolve
tcp        0      0 127.0.0.53:53          0.0.0.0:*                LISTEN      310/systemd-resolve
tcp6       0      0 :::22                  :::*                    LISTEN      1/init
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$ nmap -p 9000 guvi.com
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-05-21 17:51 UTC
Nmap scan report for guvi.com (104.21.79.166)
Host is up (0.0024s latency).
Other addresses for guvi.com (not scanned): 172.67.146.154 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 0.32 seconds
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$
ubuntu@ip-172-31-11-11:~$
```