

1. To Get the IP address of a particular domain (guvi.in). Use nslookup (domain name) command.
2. To find my CPU/memory usage of my server we use (top) command & to view memory status use (free -h)

```
ravikumar@DESKTOP-JMSLBGI: ~
ravikumar@DESKTOP-JMSLBGI:~$ nslookup guvi.in
Server:      10.255.255.254
Address:     10.255.255.254#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::681a:558
Name:   guvi.in
Address: 2606:4700:20::681a:458
Name:   guvi.in
Address: 2606:4700:20::ac43:46cf

ravikumar@DESKTOP-JMSLBGI:~$ top
top - 11:10:00 up 2 min, 1 user, load average: 0.02, 0.02, 0.00
Tasks: 23 total, 1 running, 22 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.2 sy, 0.0 ni, 99.5 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
MiB Mem : 3862.0 total, 3202.6 free, 407.2 used, 252.3 buff/cache
MiB Swap: 1024.0 total, 1024.0 free, 0.0 used. 3242.7 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	165796	10940	8084	S	0.0	0.3	0:00.89	systemd
2	root	20	0	2776	1920	1796	S	0.0	0.0	0:00.02	init-systemd(Ub
7	root	20	0	2776	132	132	S	0.0	0.0	0:00.01	init
66	root	19	-1	47740	14816	13796	S	0.0	0.4	0:00.23	systemd-journal
86	root	20	0	21832	5580	4476	S	0.0	0.1	0:00.24	systemd-udev
112	systemd+	20	0	25664	12784	8432	S	0.0	0.3	0:00.28	systemd-resolve
116	systemd+	20	0	89364	6420	5612	S	0.0	0.2	0:00.22	systemd-timesyn
176	root	20	0	4308	2772	2532	S	0.0	0.1	0:00.00	cron
178	message+	20	0	8580	4656	4120	S	0.0	0.1	0:00.06	dbus-daemon
183	root	20	0	30140	19052	10248	S	0.0	0.5	0:00.19	networkd-dispat
184	syslog	20	0	222404	5108	4288	S	0.0	0.1	0:00.03	rsyslogd
187	root	20	0	15332	7260	6316	S	0.0	0.2	0:00.17	systemd-logind
197	root	20	0	3240	1112	1024	S	0.0	0.0	0:00.00	agetty
207	root	20	0	3196	1092	1008	S	0.0	0.0	0:00.00	agetty
225	root	20	0	107164	21428	13320	S	0.0	0.5	0:00.15	unattended-upgr
300	root	20	0	2784	204	80	S	0.0	0.0	0:00.00	SessionLeader
301	root	20	0	2784	208	80	S	0.0	0.0	0:00.01	Relay(302)
302	ravikum+	20	0	6260	5176	3404	S	0.0	0.1	0:00.08	bash
303	root	20	0	7520	4920	4004	S	0.0	0.1	0:00.02	login
392	ravikum+	20	0	16928	9552	8100	S	0.0	0.2	0:00.12	systemd
393	ravikum+	20	0	168852	3364	16	S	0.0	0.1	0:00.00	(sd-pam)
398	ravikum+	20	0	6100	4856	3296	S	0.0	0.1	0:00.04	bash
422	ravikum+	20	0	7792	3652	3048	R	0.0	0.1	0:00.02	top

```
ravikumar@DESKTOP-JMSLBGI: ~
ravikumar@DESKTOP-JMSLBGI:~$ free -h
Mem:      3.8Gi  396Mi  3.1Gi  3.0Mi  252Mi  3.2Gi
Swap:     1.0Gi   0B    1.0Gi

ravikumar@DESKTOP-JMSLBGI:~$
```

3. To Test the connectivity between 2 nodes we use (ping {domain name}) command.

```
ravikumar@DESKTOP-JMSLBGI: ~  
ravikumar@DESKTOP-JMSLBGI:~$ free -h  
              total        used        free      shared  buff/cache   available  
Mem:           3.8Gi        396Mi        3.1Gi        3.0Mi        252Mi        3.2Gi  
Swap:           1.0Gi           0B        1.0Gi  
ravikumar@DESKTOP-JMSLBGI:~$ ping guvi.in  
PING guvi.in (172.67.70.207) 56(84) bytes of data.  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=1 ttl=54 time=17.3 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=2 ttl=54 time=20.7 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=3 ttl=54 time=14.2 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=4 ttl=54 time=13.7 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=5 ttl=54 time=14.0 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=6 ttl=54 time=14.0 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=7 ttl=54 time=14.7 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=8 ttl=54 time=14.7 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=9 ttl=54 time=15.9 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=10 ttl=54 time=16.1 ms  
64 bytes from 172.67.70.207 (172.67.70.207): icmp_seq=11 ttl=54 time=15.3 ms  
^C  
--- guvi.in ping statistics ---  
11 packets transmitted, 11 received, 0% packet loss, time 10008ms  
rtt min/avg/max/mdev = 13.711/15.517/20.678/1.941 ms  
ravikumar@DESKTOP-JMSLBGI:~$
```

4. Deployed an application in guvi.com:9000, and logs show my app is running, but I'm unable to view the page.

```
ravikumar@DESKTOP-JMSLBGI: ~  
ravikumar@DESKTOP-JMSLBGI:~$ curl guvi.com  
<html>  
<head><title>301 Moved Permanently</title></head>  
<body>  
<center><h1>301 Moved Permanently</h1></center>  
<hr><center>cloudflare</center>  
</body>  
</html>  
ravikumar@DESKTOP-JMSLBGI:~$ telnet guvi.com:9000  
telnet: could not resolve guvi.com:9000/telnet: Name or service not known  
ravikumar@DESKTOP-JMSLBGI:~$ telnet guvi.com 9000  
Trying 104.21.79.166...
```

5. First I used (Curl {domain name}). To view the Html content of the file. Then I Used (telnet {domain name} port no) . But it's Trying to running & it's not open  
6. The result is port is not open.