

1. Get me the IP address of a particular domain (guvi.in).

```
vagrant@ubuntu-bionic: ~  
vagrant@ubuntu-bionic:~$ clear  
vagrant@ubuntu-bionic:~$ nslookup guvi.in  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
Name:   guvi.in  
Address: 172.67.70.207  
Name:   guvi.in  
Address: 104.26.5.88  
Name:   guvi.in  
Address: 104.26.4.88  
Name:   guvi.in  
Address: 2606:4700:9c6a:d255:c1fe:491:60b8:c78e  
  
vagrant@ubuntu-bionic:~$ dig guvi.in  
  
; <<>> DiG 9.11.3-1ubuntu1.18-Ubuntu <<>> guvi.in  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 10959  
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 65494  
;; QUESTION SECTION:  
;guvi.in.                IN      A  
  
;; ANSWER SECTION:  
guvi.in.                 93      IN      A      172.67.70.207  
guvi.in.                 93      IN      A      104.26.5.88  
guvi.in.                 93      IN      A      104.26.4.88  
  
;; Query time: 1 msec  
;; SERVER: 127.0.0.53#53(127.0.0.53)  
;; WHEN: Tue Nov 05 13:15:51 UTC 2024  
;; MSG SIZE rcvd: 84
```

mtr guvi.in

```
vagrant@ubuntu-bionic: ~  
My traceroute [v0.92]  
ubuntu-bionic (10.0.2.15) 2024-11-05T13:17:37+0000  
Keys: Help Display mode Restart statistics Order of fields quit  


| Host               | Packets |     | Pings |      |      |       |       |
|--------------------|---------|-----|-------|------|------|-------|-------|
|                    | Loss%   | Snt | Last  | Avg  | Best | Wrst  | StDev |
| 1. _gateway        | 0.0%    | 12  | 1.5   | 1.6  | 0.8  | 2.7   | 0.6   |
| 2. 192.168.81.7    | 0.0%    | 12  | 25.0  | 20.4 | 8.1  | 40.6  | 10.0  |
| 3. ???             |         |     |       |      |      |       |       |
| 4. ???             |         |     |       |      |      |       |       |
| 5. ???             |         |     |       |      |      |       |       |
| 6. 172.27.251.99   | 0.0%    | 11  | 53.2  | 44.3 | 29.5 | 93.4  | 18.7  |
| 7. 192.168.138.224 | 0.0%    | 11  | 48.3  | 42.9 | 30.9 | 65.4  | 10.3  |
| 192.168.138.226    |         |     |       |      |      |       |       |
| 8. ???             |         |     |       |      |      |       |       |
| 9. ???             |         |     |       |      |      |       |       |
| 10. ???            |         |     |       |      |      |       |       |
| 11. ???            |         |     |       |      |      |       |       |
| 12. ???            |         |     |       |      |      |       |       |
| 13. 49.44.220.133  | 0.0%    | 11  | 42.5  | 65.7 | 36.3 | 119.2 | 27.9  |
| 14. 104.26.4.88    | 0.0%    | 11  | 47.3  | 52.4 | 40.0 | 79.8  | 10.3  |


```

How do I find my CPU/memory usage of my server?

top

```
vagrant@ubuntu-bionic: ~  
top - 13:23:24 up 20 min, 1 user, load average: 0.00, 0.02, 0.07  
Tasks: 93 total, 1 running, 49 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 99.8 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st  
KiB Mem : 1008516 total, 364220 free, 88060 used, 556236 buff/cache  
KiB Swap: 0 total, 0 free, 0 used. 773976 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1045	root	20	0	247456	2112	1676	S	0.3	0.2	0:00.82	VBoxService
2468	root	20	0	0	0	0	I	0.3	0.0	0:00.36	kworker/0:4
2684	vagrant	20	0	42124	3692	3144	R	0.3	0.4	0:00.03	top
1	root	20	0	159764	8952	6572	S	0.0	0.9	0:08.23	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.08	kthreadd
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
7	root	20	0	0	0	0	S	0.0	0.0	0:00.46	ksoftirqd/0
8	root	20	0	0	0	0	I	0.0	0.0	0:00.48	rcu_sched
9	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_bh
10	root	rt	0	0	0	0	S	0.0	0.0	0:00.02	migration/0
11	root	rt	0	0	0	0	S	0.0	0.0	0:00.03	watchdog/0
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
13	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
14	root	rt	0	0	0	0	S	0.0	0.0	0:00.04	watchdog/1
15	root	rt	0	0	0	0	S	0.0	0.0	0:00.35	migration/1
16	root	20	0	0	0	0	S	0.0	0.0	0:00.58	ksoftirqd/1
17	root	20	0	0	0	0	I	0.0	0.0	0:01.87	kworker/1:0
18	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/1:0H
19	root	20	0	0	0	0	S	0.0	0.0	0:00.11	kdevtmpfs
20	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
21	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_kthre
22	root	20	0	0	0	0	S	0.0	0.0	0:00.04	kauditd

htop

```
vagrant@ubuntu-bionic: ~  
1 [ 0.0%] Tasks: 27, 19 thr; 1 running  
2 [ 0.0%] Load average: 0.00 0.01 0.06  
Mem[|||||] 86.6M/985M Uptime: 00:23:07  
Swp[ ] 0K/0K
```

PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
1	root	20	0	156M	8952	6572	S	0.0	0.9	0:08.23	/sbin/init
1998	vagrant	20	0	105M	5252	4112	S	0.0	0.5	0:03.62	sshd: vagrant@pts/0
450	root	20	0	43496	4592	3276	S	0.0	0.5	0:01.35	/lib/systemd/systemd-udev
1045	root	20	0	241M	2112	1676	S	0.0	0.2	0:00.92	/usr/sbin/VBoxService
424	root	19	-1	94652	14220	13620	S	0.0	1.4	0:00.83	/lib/systemd/systemd-journald
1052	root	20	0	241M	2112	1676	S	0.0	0.2	0:00.41	/usr/sbin/VBoxService
903	messagebu	20	0	50152	4540	3852	S	0.0	0.5	0:00.35	/usr/bin/dbus-daemon --system --address=systemd: --nofork
1048	root	20	0	241M	2112	1676	S	0.0	0.2	0:00.33	/usr/sbin/VBoxService
897	root	20	0	167M	17440	9288	S	0.0	1.7	0:00.32	/usr/bin/python3 /usr/bin/networkd-dispatcher --run-start
991	root	20	0	183M	20120	12208	S	0.0	2.0	0:00.31	/usr/bin/python3 /usr/share/unattended-upgrades/unattended
707	systemd-n	20	0	79924	4984	4472	S	0.0	0.5	0:00.30	/lib/systemd/systemd-networkd
1999	vagrant	20	0	23220	5160	3456	S	0.0	0.5	0:00.22	-bash
717	systemd-n	20	0	70496	4940	4472	S	0.0	0.5	0:00.19	/lib/systemd/systemd-resolved
913	root	20	0	70448	5952	5336	S	0.0	0.6	0:00.15	/lib/systemd/systemd-logind
915	root	20	0	281M	6928	6040	S	0.0	0.7	0:00.13	/usr/lib/AccountsService/accounts-daemon
887	root	20	0	107M	2092	1876	S	0.0	0.2	0:00.11	/usr/sbin/irqbalance --foreground
857	syslog	20	0	256M	4336	3560	S	0.0	0.4	0:00.09	/usr/sbin/rsyslogd -n
1027	root	20	0	14896	2044	1912	S	0.0	0.2	0:00.09	/sbin/agetty -o -p -- \u --noclear tty1 linux
932	root	20	0	281M	6928	6040	S	0.0	0.7	0:00.08	/usr/lib/AccountsService/accounts-daemon
1868	vagrant	20	0	76652	7704	6696	S	0.0	0.8	0:00.08	/lib/systemd/systemd --user
1858	root	20	0	105M	7152	6148	S	0.0	0.7	0:00.07	sshd: vagrant [priv]
1015	root	20	0	16420	2440	2288	S	0.0	0.2	0:00.06	/sbin/agetty -o -p -- \u --keep-baud 115200,38400,9600 tt

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

```
vagrant@ubuntu-bionic: ~  
vagrant@ubuntu-bionic:~$ free -h  
total used free shared buff/cache available  
Mem: 984M 85M 355M 612K 543M 756M  
Swap: 0B 0B 0B  
vagrant@ubuntu-bionic:~$
```

```
CHN vagrant@ubuntu-bionic: ~
```

```
vagrant@ubuntu-bionic:~$ vmstat 1
```

```
procs -----memory----- ---swap-- -----io---- -system-- -----cpu-----
r  b   swpd   free   buff  cache   si   so    bi    bo    in   cs  us  sy  id  wa  st
1  0     0 364168 14512 542388    0    0   186   131   35   55   1   2  97   0   0
0  0     0 364168 14512 542388    0    0    0     0   19   26   0   0 100   0   0
0  0     0 364168 14512 542388    0    0    0     0   29   45   0   0 100   0   0
0  0     0 364168 14512 542424    0    0    0     0   15   26   0   0 100   0   0
0  0     0 364168 14512 542424    0    0    0     0   17   29   0   0 100   0   0
0  0     0 364168 14512 542424    0    0    0     0   16   30   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0    12   24   43   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   24   42   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   32   39   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   12   23   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   19   34   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   18   33   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   26   46   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   13   24   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   18   30   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   15   24   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   17   29   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   24   43   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   42   52   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   13   24   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   19   29   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   18   32   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   27   45   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   14   27   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   18   31   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   17   31   0   0 100   0   0
0  0     0 364168 14520 542424    0    0    0     0   18   31   0   0 100   0   0
```

Test the connectivity between 2 nodes?

```
CHN vagrant@ubuntu-bionic: ~
```

```
vagrant@ubuntu-bionic:~$ ping guvi.in
```

```
PING guvi.in (104.26.4.88) 56(84) bytes of data.
```

```
64 bytes from 104.26.4.88 (104.26.4.88): icmp_seq=1 ttl=52 time=61.6 ms
```

```
64 bytes from 104.26.4.88 (104.26.4.88): icmp_seq=2 ttl=52 time=45.2 ms
```

```
64 bytes from 104.26.4.88 (104.26.4.88): icmp_seq=3 ttl=52 time=60.5 ms
```

```
64 bytes from 104.26.4.88 (104.26.4.88): icmp_seq=4 ttl=52 time=179 ms
```

```
64 bytes from 104.26.4.88 (104.26.4.88): icmp_seq=5 ttl=52 time=322 ms
```

```
64 bytes from 104.26.4.88 (104.26.4.88): icmp_seq=6 ttl=52 time=71.8 ms
```

```
^C
```

```
--- guvi.in ping statistics ---
```

```
6 packets transmitted, 6 received, 0% packet loss, time 5064ms
```

```
rtt min/avg/max/mdev = 45.276/123.481/322.249/99.311 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@ubuntu-bionic: ~  
vagrant@ubuntu-bionic:~$ telnet guvi.com 9000  
Trying 172.67.146.154...  
Trying 104.21.79.166...  
Trying 2606:4700:3037::ac43:929a...  
Trying 2606:4700:3031::6815:4fa6...  
telnet: Unable to connect to remote host: Network is unreachable  
vagrant@ubuntu-bionic:~$ sudo ufw status  
Status: active  
  
To Action From  
--  
22 ALLOW Anywhere  
2222 ALLOW Anywhere  
9000 ALLOW Anywhere  
22 (v6) ALLOW Anywhere (v6)  
2222 (v6) ALLOW Anywhere (v6)  
9000 (v6) ALLOW Anywhere (v6)  
  
vagrant@ubuntu-bionic:~$
```