

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

```
root@ubuntu:/home# 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: 172.67.70.207
Name:   guvi.in
Address: 104.26.4.88
Name:   guvi.in
Address: 2606:4700:976a:d255:c13b:412:60b8:c78e

root@ubuntu:/home# _
```

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

```
0.7% Tasks: 22, 30 thr, 91 kthr: 1 running
0.0% Load average: 0.00 0.02 0.00
177M/1.32G Uptime: 01:20:19
0K/0K

Main I/O
PID USER PRI NI VIRT RES SHR S CPU%MEM% TIME+ Command
1 root 20 0 21980 12940 9356 S 0.0 0.6 0:06.32 /sbin/init splash noprompt noshell automatic-ubiquity
363 root 19 -1 33980 12424 11400 S 0.0 0.6 0:01.02 /usr/lib/systemd/systemd-journald
351 root RT 0 282M 27136 8704 S 0.0 1.3 0:01.19 /sbin/multipathd -d -s
369 root 20 0 26804 7424 4992 S 0.0 0.4 0:01.85 /usr/lib/systemd/systemd-udev
371 root 20 0 282M 27136 8704 S 0.0 1.3 0:00.00 /sbin/multipathd -d -s
372 root RT 0 282M 27136 8704 S 0.0 1.3 0:00.00 /sbin/multipathd -d -s
376 root RT 0 282M 27136 8704 S 0.0 1.3 0:00.00 /sbin/multipathd -d -s
377 root RT 0 282M 27136 8704 S 0.0 1.3 0:00.01 /sbin/multipathd -d -s
378 root RT 0 282M 27136 8704 S 0.0 1.3 0:02.23 /sbin/multipathd -d -s
379 root RT 0 282M 27136 8704 S 0.0 1.3 0:00.01 /sbin/multipathd -d -s
481 systemd-re 20 0 21580 12800 10496 S 0.0 0.6 0:01.19 /usr/lib/systemd/systemd-resolved
484 systemd-tl 20 0 91024 7808 6912 S 0.0 0.4 0:00.57 /usr/lib/systemd/systemd-timesyncd
420 systemd-re 20 0 19008 5944 8192 S 0.0 0.5 0:01.48 /usr/lib/systemd/systemd-networkd
450 systemd-tl 20 0 91024 7808 6912 S 0.0 0.4 0:00.01 /usr/lib/systemd/systemd-timesyncd
577 messagebus 20 0 9796 5632 4736 S 0.0 0.3 0:00.94 dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-d
585 polkitd 20 0 300M 7936 7040 S 0.0 0.4 0:00.53 /usr/lib/polkit-1/polkitd --no-debug
615 root 20 0 10124 8832 7808 S 0.0 0.4 0:00.55 /usr/lib/systemd/systemd-logind
620 root 20 0 457M 13184 11136 S 0.0 0.7 0:01.08 /usr/libexec/udisks2/udisksd
640 root 20 0 457M 13184 11136 S 0.0 0.7 0:00.13 /usr/libexec/udisks2/udisksd
642 root 20 0 107M 22312 15568 S 0.0 1.1 0:02.41 /usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signa
643 root 20 0 457M 13184 11136 S 0.0 0.7 0:00.01 /usr/libexec/udisks2/udisksd
652 syslog 20 0 217M 5888 4608 S 0.0 0.3 0:00.48 /usr/sbin/rsyslogd -n -iNONE
653 root 20 0 457M 13184 11136 S 0.0 0.7 0:00.01 /usr/libexec/udisks2/udisksd
674 polkitd 20 0 300M 7936 7040 S 0.0 0.4 0:00.18 /usr/lib/polkit-1/polkitd --no-debug
676 polkitd 20 0 300M 7936 7040 S 0.0 0.4 0:00.00 /usr/lib/polkit-1/polkitd --no-debug
679 polkitd 20 0 300M 7936 7040 S 0.0 0.4 0:00.03 /usr/lib/polkit-1/polkitd --no-debug
704 root 20 0 457M 13184 11136 S 0.0 0.7 0:00.01 /usr/libexec/udisks2/udisksd
705 root 20 0 382M 12800 10752 S 0.0 0.6 0:01.47 /usr/sbin/ModemManager
715 syslog 20 0 217M 5888 4608 S 0.0 0.3 0:00.08 /usr/sbin/rsyslogd -n -iNONE
716 syslog 20 0 217M 5888 4608 S 0.0 0.3 0:00.04 /usr/sbin/rsyslogd -n -iNONE
717 syslog 20 0 217M 5888 4608 S 0.0 0.3 0:00.06 /usr/sbin/rsyslogd -n -iNONE
721 root 20 0 457M 13184 11136 S 0.0 0.7 0:00.00 /usr/libexec/udisks2/udisksd
723 root 20 0 6824 2688 2560 S 0.0 0.1 0:00.18 /usr/sbin/cron -f -P
724 root 20 0 382M 12800 10752 S 0.0 0.6 0:00.00 /usr/sbin/ModemManager
728 root 20 0 382M 12800 10752 S 0.0 0.6 0:00.00 /usr/sbin/ModemManager
732 root 20 0 382M 12800 10752 S 0.0 0.6 0:00.03 /usr/sbin/ModemManager
763 root 20 0 6808 4512 3840 S 0.0 0.2 0:00.99 /bin/login -p --
770 root 20 0 107M 22312 15568 S 0.0 1.1 0:00.00 /usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signa
947 root 20 0 20080 11136 9344 S 0.0 0.6 0:00.23 /usr/lib/systemd/systemd --user
948 root 20 0 21156 5376 1664 S 0.0 0.2 0:00.00 (sd-pam)
```

```

root@ubuntu:/home# sar -u 5 10
Linux 6.8.0-85-generic (ubuntu)      10/07/2025      _x86_64_      (2 CPU)

02:12:52 PM   CPU   %user   %nice   %system   %iowait   %steal   %idle
02:12:57 PM   all    0.00    0.00    0.20    0.10    0.00   99.70
02:13:02 PM   all    0.00    0.00    0.10    0.00    0.00   99.90
02:13:07 PM   all    0.00    0.00    0.40    0.00    0.00   99.60
02:13:12 PM   all    0.00    0.00    0.20    0.10    0.00   99.70
02:13:17 PM   all    0.00    0.00    0.00    0.00    0.00  100.00
02:13:22 PM   all    0.00    0.00    0.30    0.00    0.00   99.70
02:13:27 PM   all    0.00    0.00    0.30    0.00    0.00   99.70
02:13:32 PM   all    0.00    0.00    0.10    0.00    0.00   99.90
02:13:37 PM   all    0.00    0.00    0.20    0.00    0.00   99.80
02:13:42 PM   all    0.00    0.00    0.20    0.00    0.00   99.80
Average:      all    0.00    0.00    0.20    0.02    0.00   99.78

root@ubuntu:/home# sar -r 5 10
Linux 6.8.0-85-generic (ubuntu)      10/07/2025      _x86_64_      (2 CPU)

02:13:57 PM kbmemfree  kbavail  kbmempool  %memused  kbbuffers  kbcached  kbcommit  %commit  kbactive  kbinact  kbdirty
02:14:02 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:07 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:12 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:17 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:22 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:27 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:32 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:37 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:42 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
02:14:47 PM  1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0
Average:      1515716  1684876  134864    6.69    20624    280496  436120    21.64    264264  72456    0

root@ubuntu:/home#

```

Test the connectivity between 2 nodes?

```

root@ubuntu:/home# ping guvi.in -c5
PING guvi.in (172.67.70.207) 56(84) bytes of data:
64 bytes from 172.67.70.207: icmp_seq=1 ttl=255 time=44.4 ms
64 bytes from 172.67.70.207: icmp_seq=2 ttl=255 time=40.2 ms
64 bytes from 172.67.70.207: icmp_seq=3 ttl=255 time=52.8 ms
64 bytes from 172.67.70.207: icmp_seq=4 ttl=255 time=56.9 ms
64 bytes from 172.67.70.207: icmp_seq=5 ttl=255 time=39.7 ms

--- guvi.in ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 10323ms
rtt min/avg/max/mdev = 39.684/46.784/56.874/6.885 ms
root@ubuntu:/home#

```

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 ?

```

root@ubuntu:/home# telnet guvi.com 9000
Trying 104.21.79.166...
Connection failed: Connection refused
Trying 172.67.146.154...
Connection failed: Connection refused
Trying 2606:4700:3037::ac43:929a...
Connection failed: Connection refused
Trying 2606:4700:3031::6815:4fa6...
^C
root@ubuntu:/home# _

```

```
root@ubuntu:/home# curl -v guvi.com:9000
* Host guvi.com:9000 was resolved.
* IPv6: 2606:4700:3031::6815:4fa6, 2606:4700:3037::ac43:929a
* IPv4: 104.21.79.166, 172.67.146.154
* Trying 104.21.79.166:9000...
* Trying [2606:4700:3031::6815:4fa6]:9000...
* connect to 104.21.79.166 port 9000 from 10.0.2.15 port 51534 failed: Connection refused
* Trying 172.67.146.154:9000...
* connect to 2606:4700:3031::6815:4fa6 port 9000 from fd17:625c:f037:2:a00:27ff:fec3:567a port 52946 failed: Connection refused
* Trying [2606:4700:3037::ac43:929a]:9000...
* connect to 172.67.146.154 port 9000 from 10.0.2.15 port 39256 failed: Connection refused
* connect to 2606:4700:3037::ac43:929a port 9000 from fd17:625c:f037:2:a00:27ff:fec3:567a port 44658 failed: Connection refused
* Failed to connect to guvi.com port 9000 after 42728 ms: Couldn't connect to server
* Closing connection
curl: (7) Failed to connect to guvi.com port 9000 after 42728 ms: Couldn't connect to server
root@ubuntu:/home#
```