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

1) dig guvi.in
2) nslookup guvi.in
3) host guvi.in
4) ping guvi.in

```
hari@VIZLP21-HARIRAJ: ~
hari@VIZLP21-HARIRAJ:~$ host guvi.in
guvi.in has address 172.67.70.207
guvi.in has address 104.26.5.88
guvi.in has address 104.26.4.88
guvi.in has IPv6 address 2606:4700:9c6a:d255:c13b:308:60b8:c78e
guvi.in mail is handled by 10 mailstore1.secureserver.net.
guvi.in mail is handled by 20 smtp.secureserver.net.
guvi.in mail is handled by 5 alt1.aspmx.l.google.com.
guvi.in mail is handled by 5 alt2.aspmx.l.google.com.
guvi.in mail is handled by 1 aspmx.l.google.com.
guvi.in mail is handled by 10 alt3.aspmx.l.google.com.
guvi.in mail is handled by 10 alt4.aspmx.l.google.com.
hari@VIZLP21-HARIRAJ:~$ nslookup guvi.in
Server:         172.23.112.1
Address:        172.23.112.1#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:c13b:308:60b8:c78e

hari@VIZLP21-HARIRAJ:~$ dig guvi.in

; <<>> DiG 9.18.12-0ubuntu0.22.04.1-Ubuntu <<>> guvi.in
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 31692
;; flags: qr rd ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 0
;; WARNING: recursion requested but not available

;; QUESTION SECTION:
;guvi.in.                       IN      A

;; ANSWER SECTION:
guvi.in.                0       IN      A       104.26.5.88
guvi.in.                0       IN      A       104.26.4.88
guvi.in.                0       IN      A       172.67.70.207

;; Query time: 20 msec
;; SERVER: 172.23.112.1#53(172.23.112.1) (UDP)
;; WHEN: Thu Dec 14 10:33:46 IST 2023
;; MSG SIZE  rcvd: 80

hari@VIZLP21-HARIRAJ:~$ ping guvi.in
PING guvi.in (104.26.5.88) 56(84) bytes of data.
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=1 ttl=57 time=19.5 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=2 ttl=57 time=21.0 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=3 ttl=57 time=18.5 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=4 ttl=57 time=18.2 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=5 ttl=57 time=19.5 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=6 ttl=57 time=19.6 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=7 ttl=57 time=18.9 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=8 ttl=57 time=18.9 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=9 ttl=57 time=20.3 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=10 ttl=57 time=19.7 ms
64 bytes from 104.26.5.88 (104.26.5.88): icmp_seq=11 ttl=57 time=19.7 ms
^C64 bytes from 104.26.5.88: icmp_seq=12 ttl=57 time=20.6 ms
```
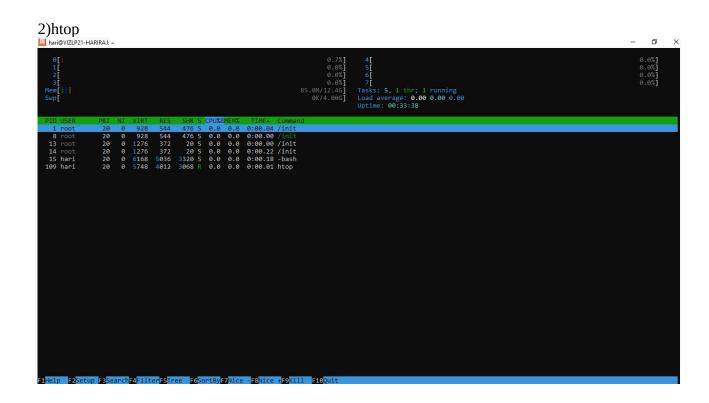
## 2. How do I find the CPU/memory usage of my server?

1) top

```
hari@VIZLP21-HARIRAJ:~$ top
top - 10:39:03 up 13 min,  0 users,  load average: 0.00, 0.00, 0.00
Tasks:   5 total,   1 running,   4 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni, 99.9 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  12670.5 total,  12515.0 free,     84.7 used,     70.8 buff/cache
MiB Swap:   4096.0 total,   4096.0 free,      0.0 used.  12402.6 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
    1 root      20   0     928    544    476 S   0.0   0.0   0:00.04 init
   13 root      20   0    1276    372     20 S   0.0   0.0   0:00.00 init
   14 root      20   0    1276    372     20 S   0.0   0.0   0:00.08 init
   15 hari      20   0    6168   5036   3320 S   0.0   0.0   0:00.10 bash
   94 hari      20   0    7812   3600   2992 R   0.0   0.0   0:00.01 top
```

2)htop

```
 hari@VIZLP21-HARIRAJ: ~                                                                                    —   □   ×

  0[|                                             0.7%]   4[                                             0.0%]
  1[                                              0.0%]   5[                                             0.0%]
  2[                                              0.0%]   6[                                             0.0%]
  3[                                              0.0%]   7[                                             0.0%]
  Mem[|||                                   85.0M/12.4G]   Tasks: 5, 1 thr; 1 running
  Swp[                                         0K/4.00G]   Load average: 0.00 0.00 0.00
                                                          Uptime: 00:33:38

  PID USER     PRI  NI  VIRT   RES  SHR S CPU% MEM%  TIME+   Command
    1 root      20   0   928   544  476 S  0.0  0.0  0:00.04 /init
    8 root      20   0   928   544  476 S  0.0  0.0  0:00.00 /init
   13 root      20   0  1276   372   20 S  0.0  0.0  0:00.00 /init
   14 root      20   0  1276   372   20 S  0.0  0.0  0:00.22 /init
   15 hari      20   0  6168  5036 3320 S  0.0  0.0  0:00.18 -bash
  109 hari      20   0  5748  4012 3068 R  0.0  0.0  0:00.01 htop

F1Help  F2Setup F3SearchF4FilterF5Tree  F6SortByF7Nice -F8Nice +F9Kill  F10Quit
```

### 3.Test the connectivity between 2 nodes

1) From Node1 ping  <Node2_IP Address>

```
hari@VIZLP21-HARIRAJ:~$ ping 172.168.11.82
PING 172.168.11.82 (172.168.11.82) 56(84) bytes of data.
64 bytes from 172.168.11.82: icmp_seq=1 ttl=127 time=16.2 ms
64 bytes from 172.168.11.82: icmp_seq=2 ttl=127 time=8.68 ms
64 bytes from 172.168.11.82: icmp_seq=3 ttl=127 time=9.06 ms
^C
--- 172.168.11.82 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 8.678/11.308/16.189/3.454 ms
hari@VIZLP21-HARIRAJ:~$
```