Networking task

Get me IP address of particular domain (guvi.in) How do I find my CPU/memory usage of my server? Test the connectivity between 2 nodes? I have deployed an application in guvi.com:9000, and logs shows my app is running, but I'm unable to view the page. Check whether my port is open or not?

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

```
[ec2-user@ip-172-31-20-131 ~]$ nslookup guvi.in
               172.31.0.2
Server:
Address:
               172.31.0.2#53
Non-authoritative answer:
       quvi.in
Name:
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::ac43:46cf
Name:
       quvi.in
Address: 2606:4700:20::681a:458
```

Find CPU/Memory usage of your server:

```
[ec2-user@ip-172-31-20-131 ~]$ top
top - 09:45:33 up 5 min, 1 user, load average: 0.01, 0.16, 0.11
Tasks: 100 total, 1 running, 99 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.1
MiB Mem: 949.5 total, 601.7 free, 127.9 used, 220.0 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 684.4 avail Mem
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0:00.00 kthreadd
0:00.00 rcu_pp
0:00.00 rcu_pp
0:00.00 rcu_pp
0:00.00 rcu_pp
0:00.00 rcu_pr
0:00.00 netns
0:00.00 kworker/0:0-events
0:00.00 kworker/0:0H-events_highpri
0:00.00 mm_percpu_wq
0:00.00 rcu_tasks_kthread
0:00.00 rcu_tasks_trace_kthread
0:00.00 ksoftirqd/0
0:00.00 digration/0
0:00.00 migration/0
0:00.00 kdevtmpfs
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0:00.00 kdevtmpfs
0:00.00 kdevtmpfs
0:00.00 kworker/0:1-events_unbound
0:00.00 kworker/0:2-writeback
0:00.00 kworker/0:2-writeback
0:00.00 kcompactd0
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0:00.00 kblockd
0:00.00 kcompactd0
0:00.00 kblockd
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0:00.00 wen-balloon
0:00.00 ded
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0:00.00 edac-poller
0:00.00 watchdogd
```

Memory usage:

[ec2-user@ip-172-31-20-131 ~]\$ free -h						
	total	used	free	shared	buff/cache	available
Mem:	949Mi	127Mi	601Mi	0.0Ki	220Mi	684Mi
Swap:	0B	0B	0B			

Test the connectivity between 2 nodes:

```
[ec2-user@ip-172-31-20-131 ~]$ ping guvi.io
PING guvi.io (172.67.133.41) 56(84) bytes of data.
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=1 ttl=53 time=9.81 ms
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=2 ttl=53 time=9.88 ms
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=3 ttl=53 time=9.85 ms
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=4 ttl=53 time=9.88 ms
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=5 ttl=53 time=10.2 ms
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=6 ttl=53 time=9.88 ms
64 bytes from 172.67.133.41 (172.67.133.41): icmp_seq=6 ttl=53 time=9.88 ms
```

Check if a port is open:

```
[ec2-user@ip-172-31-20-131 ~]$ nc -zv guvi.com 9000
Ncat: Version 7.93 ( https://nmap.org/ncat )
Ncat: Connection to 172.67.146.154 failed: TIMEOUT.
Ncat: Trying next address...
Ncat: Connection to 104.21.79.166 failed: TIMEOUT.
Ncat: Trying next address...
Ncat: Connection to 2606:4700:3031::6815:4fa6 failed: Network is unreachable.
Ncat: Trying next address...
Ncat: Network is unreachable.
```

No we cant communicate with this port.