

[Guvi Task]

Day 3 - LINUX - Network Basic

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 ?

```
ubuntu@ip-172-31-42-100:~$  
ubuntu@ip-172-31-42-100:~$  
ubuntu@ip-172-31-42-100:~$  
ubuntu@ip-172-31-42-100:~$ nslookup www.guvi.in  
Server:      127.0.0.53  
Address:     127.0.0.53#53
```

```
Non-authoritative answer:  
Name:   www.guvi.in  
Address: 104.26.5.88  
Name:   www.guvi.in  
Address: 172.67.70.207  
Name:   www.guvi.in  
Address: 104.26.4.88  
Name:   www.guvi.in  
Address: 2606:4700:20::681a:458  
Name:   www.guvi.in  
Address: 2606:4700:20::681a:558  
Name:   www.guvi.in  
Address: 2606:4700:20::ac43:46cf
```

```
ubuntu@ip-172-31-42-100:~$
```

i-07353beffd505364b (Dockerfile)

PublicIPs: 13.232.99.59 PrivateIPs: 172.31.42.100

```
aws Services Q Search [Alt+S]  
top - 18:10:00 up 4:33, 1 user, load average: 0.00, 0.00, 0.00  
Tasks: 107 total, 1 running, 106 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 9.1 us, 0.0 sy, 0.0 ni, 90.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 957.4 total, 155.7 free, 363.9 used, 592.6 buff/cache  
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 593.5 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	22244	13416	9576	S	0.0	1.4	0:04.26	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pool_workqueue_release
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-rcu_g
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-rcu_p
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-slub
7	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-netns
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
12	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-mm_pe
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
15	root	20	0	0	0	0	S	0.0	0.0	0:00.28	kssoftirqd/0
16	root	20	0	0	0	0	I	0.0	0.0	0:00.39	rcu_sched
17	root	rt	0	0	0	0	S	0.0	0.0	0:00.09	migration/0
18	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/0
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
20	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
21	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/R-inet
23	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kauditd
24	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khungtaskd

```
aws Services Q Search [Alt+S] Mumbai Sumit_aws_11
23 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd
24 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd
ubuntu@ip-172-31-42-100:~$
ubuntu@ip-172-31-42-100:~$
ubuntu@ip-172-31-42-100:~$ free -h
              total        used        free      shared  buff/cache   available
Mem:           957Mi       363Mi       155Mi        912Ki        592Mi       593Mi
Swap:              0B           0B           0B
ubuntu@ip-172-31-42-100:~$
ubuntu@ip-172-31-42-100:~$
ubuntu@ip-172-31-42-100:~$ ping www.guvi.in
PING www.guvi.in (104.26.4.88) 56(84) bytes of data.
64 bytes from 104.26.4.88: icmp_seq=1 ttl=54 time=1.19 ms
64 bytes from 104.26.4.88: icmp_seq=2 ttl=54 time=1.18 ms
64 bytes from 104.26.4.88: icmp_seq=3 ttl=54 time=1.19 ms
64 bytes from 104.26.4.88: icmp_seq=4 ttl=54 time=1.18 ms
64 bytes from 104.26.4.88: icmp_seq=5 ttl=54 time=1.10 ms
64 bytes from 104.26.4.88: icmp_seq=6 ttl=54 time=1.18 ms
64 bytes from 104.26.4.88: icmp_seq=7 ttl=54 time=1.26 ms
64 bytes from 104.26.4.88: icmp_seq=8 ttl=54 time=1.18 ms
64 bytes from 104.26.4.88: icmp_seq=9 ttl=54 time=1.16 ms
64 bytes from 104.26.4.88: icmp_seq=10 ttl=54 time=1.16 ms
64 bytes from 104.26.4.88: icmp_seq=11 ttl=54 time=1.18 ms
64 bytes from 104.26.4.88: icmp_seq=12 ttl=54 time=1.25 ms
64 bytes from 104.26.4.88: icmp_seq=13 ttl=54 time=1.15 ms
64 bytes from 104.26.4.88: icmp_seq=14 ttl=54 time=1.18 ms
64 bytes from 104.26.4.88: icmp_seq=15 ttl=54 time=1.18 ms
```

```
aws Services Q Search [Alt+S] Mumbai Sumit_aws_11
sudo apt install net-tools
ubuntu@ip-172-31-42-100:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 ip-172-31-42-100.:48660 169.254.169.254:http    TIME_WAIT
tcp        0      0 ip-172-31-42-100.:55590 ec2-13-126-16-60.a:htp TIME_WAIT
tcp        0      0 ip-172-31-42-100.:48706 169.254.169.254:http    TIME_WAIT
tcp        0      0 ip-172-31-42-100.:48654 169.254.169.254:http    TIME_WAIT
tcp        0      0 ip-172-31-42-100.:48642 169.254.169.254:http    TIME_WAIT
tcp        0      0 ip-172-31-42-100.:54540 169.254.169.254:http    TIME_WAIT
tcp6       0      452 ip-172-31-42-100.ap:ssh ec2-13-233-177-5.:28483 ESTABLISHED
tcp6       0      0 ip-172-31-42-100.ap:ssh ec2-13-233-177-4.:42858 ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State      I-Node  Path
unix   3      [ ]         STREAM     CONNECTED  7420    /run/dbus/system_bus_socket
unix   2      [ ]         DGRAM      CONNECTED  5537
unix   2      [ ]         DGRAM      CONNECTED  6727
unix   3      [ ]         STREAM     CONNECTED  7239
unix   3      [ ]         DGRAM      CONNECTED  5548
unix   3      [ ]         STREAM     CONNECTED  7235
unix   2      [ ]         DGRAM      CONNECTED  16287   /run/user/1000/systemd/notify
unix   3      [ ]         STREAM     CONNECTED  8553
unix   3      [ ]         STREAM     CONNECTED  6434
unix   3      [ ]         SEQPACKET  CONNECTED  6754
unix   3      [ ]         STREAM     CONNECTED  6116    /run/dbus/system_bus_socket
unix   3      [ ]         STREAM     CONNECTED  8554    /run/systemd/journal/stdout
unix   3      [ ]         STREAM     CONNECTED  5523    /run/systemd/journal/stdout
```

aws

Services

Q Search

[Alt+S]

Mumbai

Sumit_aws_11

ubuntu@ip-172-31-42-100:~\$

ubuntu@ip-172-31-42-100:~\$ netstat -an guvi.in:9000

Active Internet connections (servers and established)

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State
tcp	0	0	127.0.0.53:53	0.0.0.0:*	LISTEN
tcp	0	0	127.0.0.54:53	0.0.0.0:*	LISTEN
tcp	0	0	127.0.0.1:37537	0.0.0.0:*	LISTEN
tcp	0	0	0.0.0.0:80	0.0.0.0:*	LISTEN
tcp6	0	0	:::22	:::*	LISTEN
tcp6	0	340	172.31.42.100:22	13.233.177.5:28483	ESTABLISHED
tcp6	0	0	172.31.42.100:22	13.233.177.4:42858	ESTABLISHED
udp	0	0	127.0.0.1:323	0.0.0.0:*	
udp	0	0	127.0.0.54:53	0.0.0.0:*	
udp	0	0	127.0.0.53:53	0.0.0.0:*	
udp	0	0	172.31.42.100:68	0.0.0.0:*	
udp6	0	0	:::1:323	:::*	
raw6	0	0	:::58	:::*	7

Active UNIX domain sockets (servers and established)

Proto	RefCnt	Flags	Type	State	I-Node	Path
unix	2	[ACC]	STREAM	LISTENING	7216	/run/containerd/containerd.sock.ttrpc
unix	2	[ACC]	STREAM	LISTENING	7217	/run/containerd/containerd.sock
unix	3	[]	STREAM	CONNECTED	7420	/run/dbus/system_bus_socket
unix	2	[]	DGRAM	CONNECTED	5537	
unix	2	[]	DGRAM	CONNECTED	6727	
unix	3	[]	STREAM	CONNECTED	7239	
unix	3	[]	DGRAM	CONNECTED	5548	
unix	3	[]	STREAM	CONNECTED	7235	

i-07353beffd505364b (Dockerfile)

PublicIPs: 13.232.99.59 PrivateIPs: 172.31.42.100

ubuntu@ip-172-31-42-100:~\$ nmap -p 9000 guvi.com

Starting Nmap 7.94SVN (https://nmap.org) at 2024-08-16 18:15 UTC

Nmap scan report for guvi.com (172.67.146.154)

Host is up (0.0015s latency).

Other addresses for guvi.com (not scanned): 104.21.79.166 2606:4700:3031::6815:4fa6 2606:4700:3037::ac43:929a

PORT STATE SERVICE

9000/tcp filtered cslistener

Nmap done: 1 IP address (1 host up) scanned in 0.39 seconds

ubuntu@ip-172-31-42-100:~\$ nmap -p 9000 guvi.in

Starting Nmap 7.94SVN (https://nmap.org) at 2024-08-16 18:19 UTC

Nmap scan report for guvi.in (172.67.70.207)

Host is up (0.022s latency).

Other addresses for guvi.in (not scanned): 104.26.4.88 104.26.5.88 2606:4700:20::681a:458 2606:4700:20::681a:558 2606:4700:20::ac43:46cf

PORT STATE SERVICE

9000/tcp filtered cslistener

Nmap done: 1 IP address (1 host up) scanned in 0.44 seconds

ubuntu@ip-172-31-42-100:~\$

i-07353beffd505364b (Dockerfile)

PublicIPs: 13.232.99.59 PrivateIPs: 172.31.42.100

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