

Task 2: Networking Toolkit PoC

1. Create the script file

```
nano netinfo.sh
```

2. Paste the script below into the nano editor,:

```
#!/bin/bash
```

```
echo "IP Address, Subnet Mask, and Default Gateway:" >  
network_report.txt
```

```
ip addr show >> network_report.txt
```

```
echo -e "\nDefault Gateway:" >> network_report.txt
```

```
ip route | grep default >> network_report.txt
```

```
echo -e "\nOpen Ports:" >> network_report.txt
```

```
ss -tuln >> network_report.txt
```

```
echo -e "\nPing google.com:" >> network_report.txt
```

```
ping -c 4 google.com >> network_report.txt
```

```
echo -e "\nDNS Lookup for openai.com:" >> network_report.txt
```

```
nslookup openai.com >> network_report.txt
```

3. Make the script executable

```
chmod +x netinfo.sh
```

4. Run the script

```
./netinfo.sh
```

5. View the report

```
cat network_report.txt
```

File Actions Edit View Help

└─\$ cat network_report.txt

=== IP Address, Subnet Mask, and Default Gateway ===

inet 192.168.64.4/24 brd 192.168.64.255 scope global dynamic noprefixroute eth0

Default Gateway:

default via 192.168.64.1 dev eth0 proto dhcp src 192.168.64.4 metric 100

=== Open Ports ===

Netid	State	Recv-Q	Send-Q	Local Address:Port	Peer Address:Port
udp	UNCONN	0	0	0.0.0.0:88	0.0.0.0:*
udp	UNCONN	0	0	0.0.0.0:464	0.0.0.0:*
udp	UNCONN	0	0	0.0.0.0:750	0.0.0.0:*
udp	UNCONN	0	0	[::]:88	[::]:*
udp	UNCONN	0	0	[::]:464	[::]:*
udp	UNCONN	0	0	[::]:750	[::]:*
tcp	LISTEN	0	5	0.0.0.0:464	0.0.0.0:*
tcp	LISTEN	0	5	0.0.0.0:88	0.0.0.0:*
tcp	LISTEN	0	2	0.0.0.0:749	0.0.0.0:*
tcp	LISTEN	0	5	[::]:464	[::]:*
tcp	LISTEN	0	5	[::]:88	[::]:*
tcp	LISTEN	0	2	[::]:749	[::]:*

=== Ping google.com ===

PING google.com (142.250.182.78) 56(84) bytes of data.

64 bytes from lcmaaa-ax-in-f14.1e100.net (142.250.182.78): icmp_seq=1 ttl=517 time=5.97 ms

64 bytes from lcmaaa-ax-in-f14.1e100.net (142.250.182.78): icmp_seq=2 ttl=517 time=12.7 ms

64 bytes from lcmaaa-ax-in-f14.1e100.net (142.250.182.78): icmp_seq=3 ttl=116 time=12.8 ms

64 bytes from lcmaaa-ax-in-f14.1e100.net (142.250.182.78): icmp_seq=4 ttl=116 time=14.3 ms

— google.com ping statistics —

4 packets transmitted, 4 received, 0% packet loss, time 3007ms

rtt min/avg/max/mdev = 5.968/11.458/14.313/3.231 ms

=== DNS Lookup for openai.com ===

Server: 192.168.64.1

Address: 192.168.64.1#53

Non-authoritative answer:

Name: openai.com

Address: 104.18.33.45

Name: openai.com

Address: 172.64.154.211