Network Fundamentals I

Command: sudo nmap –sS 12.205.151.1 (switches used: --open, -v, --reason) yields no response on all 1000 scanned ports. The reason for no response is due to being stopped by a firewall (this is good).

Results for 167.172.144.11 –

sysadmin@UbuntuDesktop:~$ sudo nmap -sS 167.172.144.11 --reason

Starting Nmap 7.60 ( https://nmap.org ) at 2021-08-19 13:11 EDT

Nmap scan report for 167.172.144.11

Host is up, received reset ttl 255 (0.0021s latency).

Not shown: 999 filtered ports

Reason: 999 no-responses

PORT STATE SERVICE REASON

22/tcp open ssh syn-ack ttl 64

Nmap done: 1 IP address (1 host up) scanned in 18.33 seconds.

Finding: SYN scan for a tcp port is OSI #4 – transport layer.

sysadmin@UbuntuDesktop:~$ ssh -l jimi 167.172.144.11

jimi@167.172.144.11's password: (Hendrix)

Linux GTscavengerHunt 4.9.0-11-amd64 #1 SMP Debian 4.9.189-3+deb9u1 (2019-09-20) x86\_64

The programs included with the Debian GNU/Linux system are free software;

the exact distribution terms for each program are described in the

individual files in /usr/share/doc/\*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent

permitted by applicable law.

Last login: Thu Aug 19 16:34:20 2021 from 174.78.9.188

Could not chdir to home directory /home/jimi: No such file or directory

$ whoami

Jimi

$ ping rollingstone.com

PING rollingstone.com (98.137.246.8) 56(84) bytes of data.

^C

--- rollingstone.com ping statistics ---

58 packets transmitted, 0 received, 100% packet loss, time 58359ms

Finding: Other computers (i.e., Windows PCs, Vagrant VM) return the same IP address (151.101.64.69) for rollingstone.com. However, the Hollywood app server does not.

(See Below)

From PowerShell:

PS C:\Users\14192> nslookup 98.137.246.8

Server: G3100

Address: 2600:4040:407d:5600::1

Name: unknown.yahoo.com

Address: 98.137.246.8

Note: nslookup operates on Layer #7, Application.