



Networking Fundamentals: Rocking your Network

Phase 1: “I’d like to Teach the World to ping”

[illegible]

4. Explain which OSI layer(s) your findings involve:

Layer 3 Networking

5. Mitigation recommendations (if needed):

List of servers needs to be updated

Phase 2: “Some SYN for Nothin`”

1. Which ports are open on the RockStar Corp server?

Port 22

2. Which OSI layer do SYN scans run on?

a. OSI Layer:

Layer 4 (transport)

b. Explain how you determined which layer:

SYN scans shows the transfer of data and ports status

3. Mitigation suggestions (if needed):

Add the open port to filter

Phase 3: *“I Feel a DNS Change Comin’ On”*

1. Summarize your findings about why access to rollingstone.com is not working as expected from the RockStar Corp Hollywood office:

The Ip address in host file is incorrect

2. Command used to query Domain Name System records:

Nslookup 98.137.246.8

3. Domain name findings:

unknown.yahoo.com

4. Explain what OSI layer DNS runs on:

Layer 7

5. Mitigation suggestions (if needed):

Change ip address in etc hosts location

Phase 4: *“ShARP Dressed Man”*

1. Name of file containing packets:

packetcaptureinfo.txt

2. ARP findings identifying the hacker’s MAC address:

00:0c:29:1d:b3:b1

3. HTTP findings, including the message from the hacker:

“Hi Got The Blues Corp! This is a hacker that works at Rock Star Corp. Rock Star has left port 22, SSH open if you want to hack in. For 1 million Dollars I will provide...”

4. Explain the OSI layers for HTTP and ARP.

a. Layer used for HTTP:

Layer 7 Application

b. Layer used for ARP:

Layer 3 Network

5. Mitigation suggestions (if needed):

Close the open port