| Cybersecurity |
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| Networking Challenge Submission File |

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## **Networking Fundamentals: Rocking your Network**

Make a copy of this document to work in. For each phase, add the solution below the prompt. Save and submit this completed file as your Challenge deliverable.

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

1. Command(s) used to run ping against the IP ranges:

| [Enter text here] |
| --- |

1. Summarize the results of the ping command(s):

| [Enter text here] |
| --- |

1. List of IPs responding to echo requests:

| [Enter text here] |
| --- |

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

| [Enter text here] |
| --- |

1. Mitigation recommendations (if needed):

| [Enter text here] |
| --- |

### Phase **2:** *“Some SYN for Nothin’”*

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

| [Enter text here] |
| --- |

1. Which OSI layer do SYN scans run on?
   1. OSI layer:

| [Enter text here] |
| --- |

* 1. Explain how you determined which layer:

| [Enter text here] |
| --- |

1. Mitigation suggestions (if needed):

| [Enter text here] |
| --- |

### 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:

| [Enter text here] |
| --- |

1. Command used to query Domain Name System records:

| [Enter text here] |
| --- |

1. Domain name findings:

| [Enter text here] |
| --- |

1. Explain what OSI layer DNS runs on:

| [Enter text here] |
| --- |

1. Mitigation suggestions (if needed):

| [Enter text here] |
| --- |

### Phase 4: *“ShARP Dressed Man”*

1. Name of file containing packets:

| [Enter text here] |
| --- |

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

| [Enter text here] |
| --- |

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

| [Enter text here] |
| --- |

1. Explain the OSI layers for HTTP and ARP.
   1. Layer used for HTTP:

| [Enter text here] |
| --- |

* 1. Layer used for ARP:

| [Enter text here] |
| --- |

1. Mitigation suggestions (if needed):

| [Enter text here] |
| --- |

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