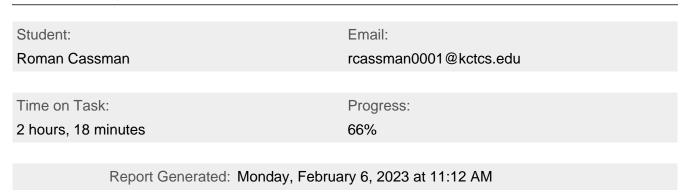
### Penetration Testing a pfSense Firewall (3e)

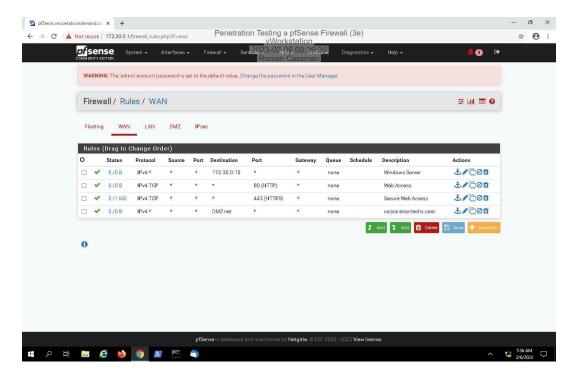
Network Security, Firewalls, and VPNs, Third Edition - Lab 10



### **Section 1: Hands-On Demonstration**

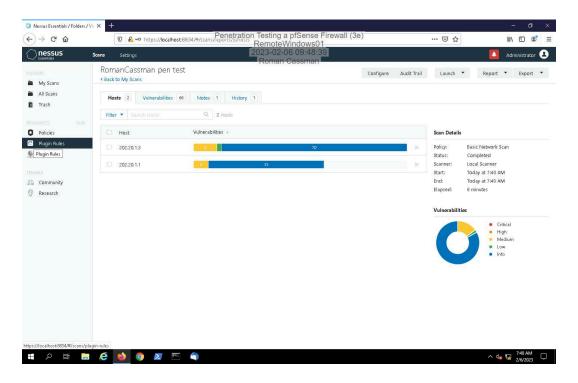
## Part 1: Examine a pfSense Firewall Configuration

12. Make a screen capture showing the WAN rules table.

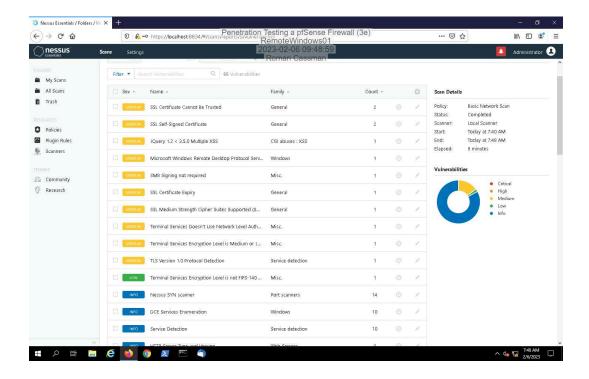


Part 2: Conduct a Penetration Test on the Network

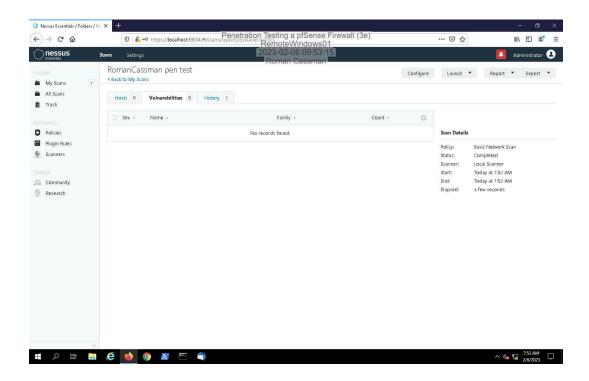
11. Make a screen capture showing the yourname pen test scan results.



13. Make a screen capture showing the list of vulnerabilities.



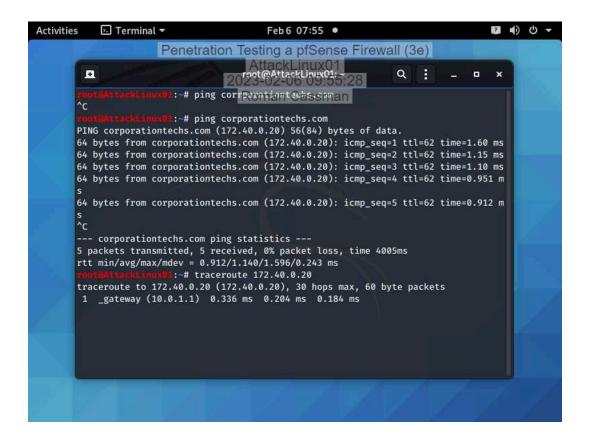
## 30. Make a screen capture showing the updated vulnerability report summary.



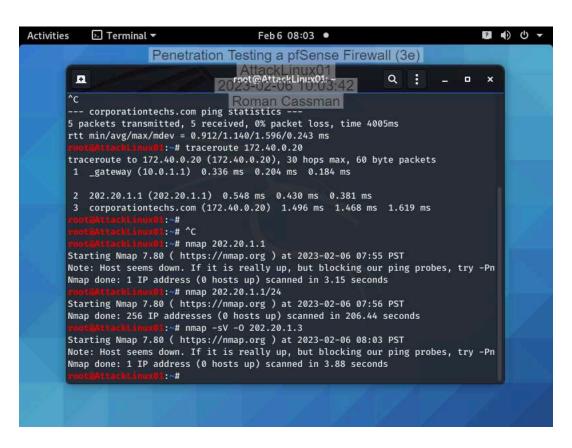
# **Section 2: Applied Learning**

#### Part 1: Conduct a Port Scan on the Network

7. Make a screen capture showing the results of the traceroute command.

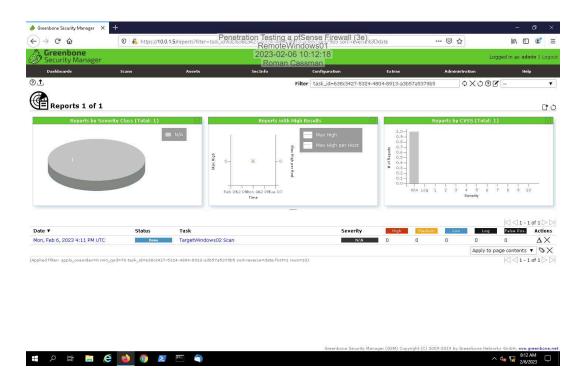


11. Make a screen capture showing the result of the nmap scan with OS detection activated.

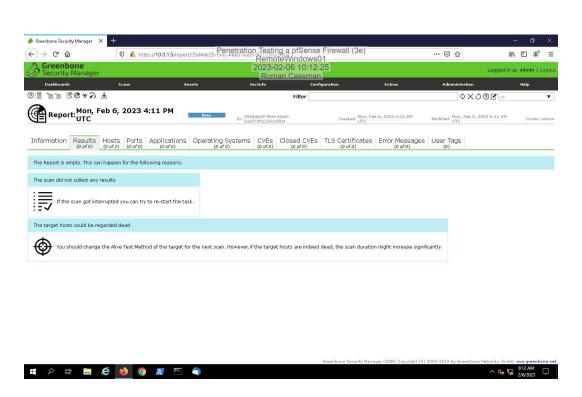


Part 2: Conduct a Vulnerability Scan on the Network

#### 12. Make a screen capture showing the OpenVAS scan report.



14. Make a screen capture showing the detailed OpenVAS scan results.



### Penetration Testing a pfSense Firewall (3e)

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# **Section 3: Challenge and Analysis**

### Part 1: Research DMZ Deployment Best Practices

Before beginning the technical portion of your penetration test, you decide to spend some time brushing up on best practices and common mistakes for DMZ deployments - both the network aspect and the servers located therein. Use the Internet to **research** DMZ deployments, then **identify** three best practices and one potential mistake or vulnerability.

Incomplete

#### Part 2: Conduct a Penetration Test on the DMZ

Make a screen capture showing the open ports on TargetLinux01 and the DMZ firewall interface.

Incomplete

Make a screen capture showing the vulnerability scan results.

Incomplete

# Part 3: Recommend Changes to the DMZ

Based on your research in Part 1 and your findings in Part 2, **prepare a brief summary** of recommended changes that Secure Labs on Demand should make to their DMZ deployment. Remember, your recommendations should apply to both the network configuration and the web server.

Incomplete