Project A – OS and Networking

By: Malcolm Brown

Executive Summary

- Upgrading a client's IT system by installing:
  - New firewall, CEO PC, Webserver, DNS server,
  - and some Linux machines for monitoring and conducting cybersecurity related tasks.

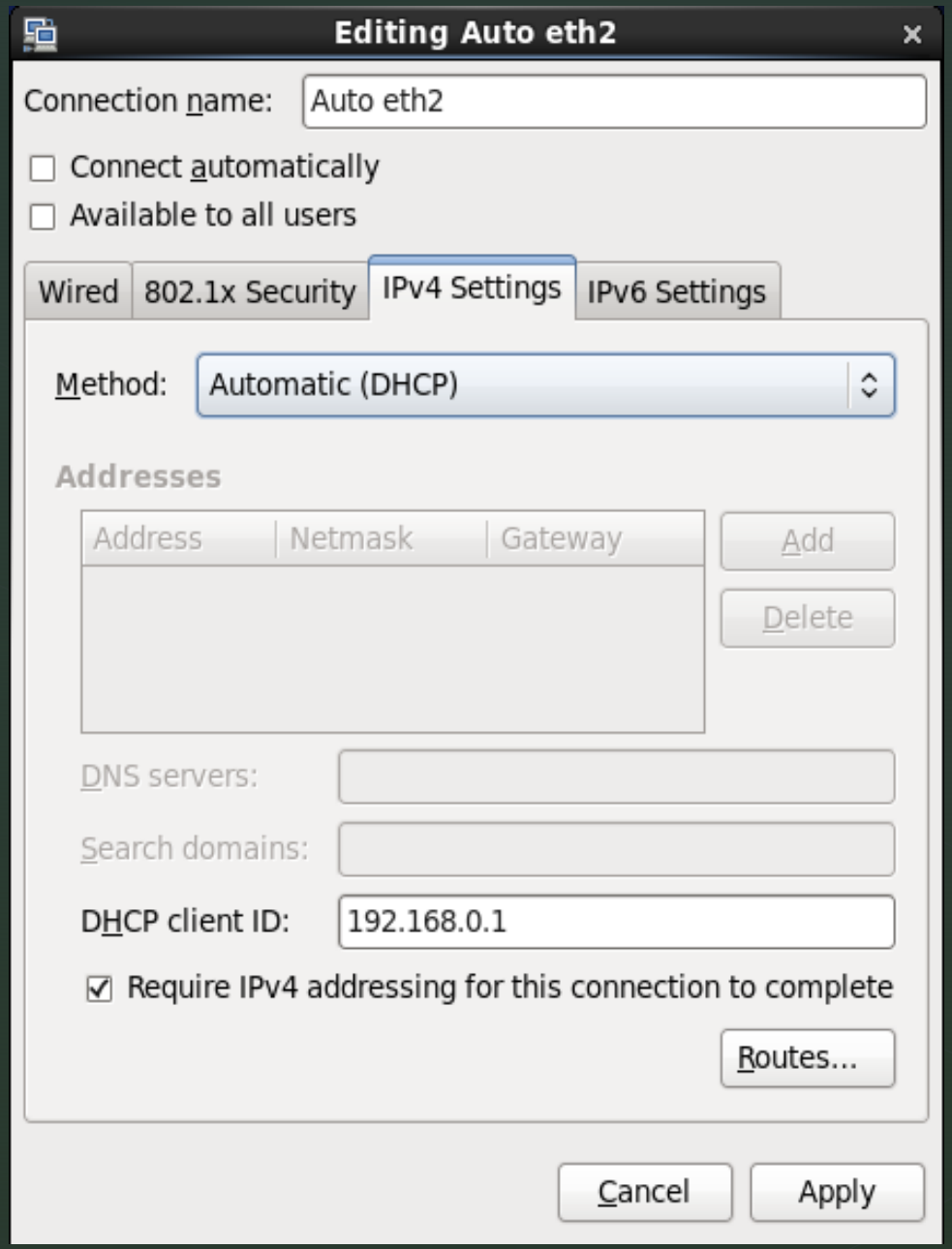
Execution: What I Created

- Created and configured virtual machines with new network.
- Creating a new user account on the web server.
- Verified trusted network can't be pinged by untrusted network.
- Designed security baseline for the server.
- This reduced cost and met client’s operational needs.

Problems Identified and Their Resolution

Problem	Solution
• Initally couldn't connect to internet on CEO's PC - IPv4 settings misconfigured.	• Manually configured the correct IP and DNS Server address • Fixed network inconnection problem • Able to visit "www.seclab.net" with firefox afterwards.

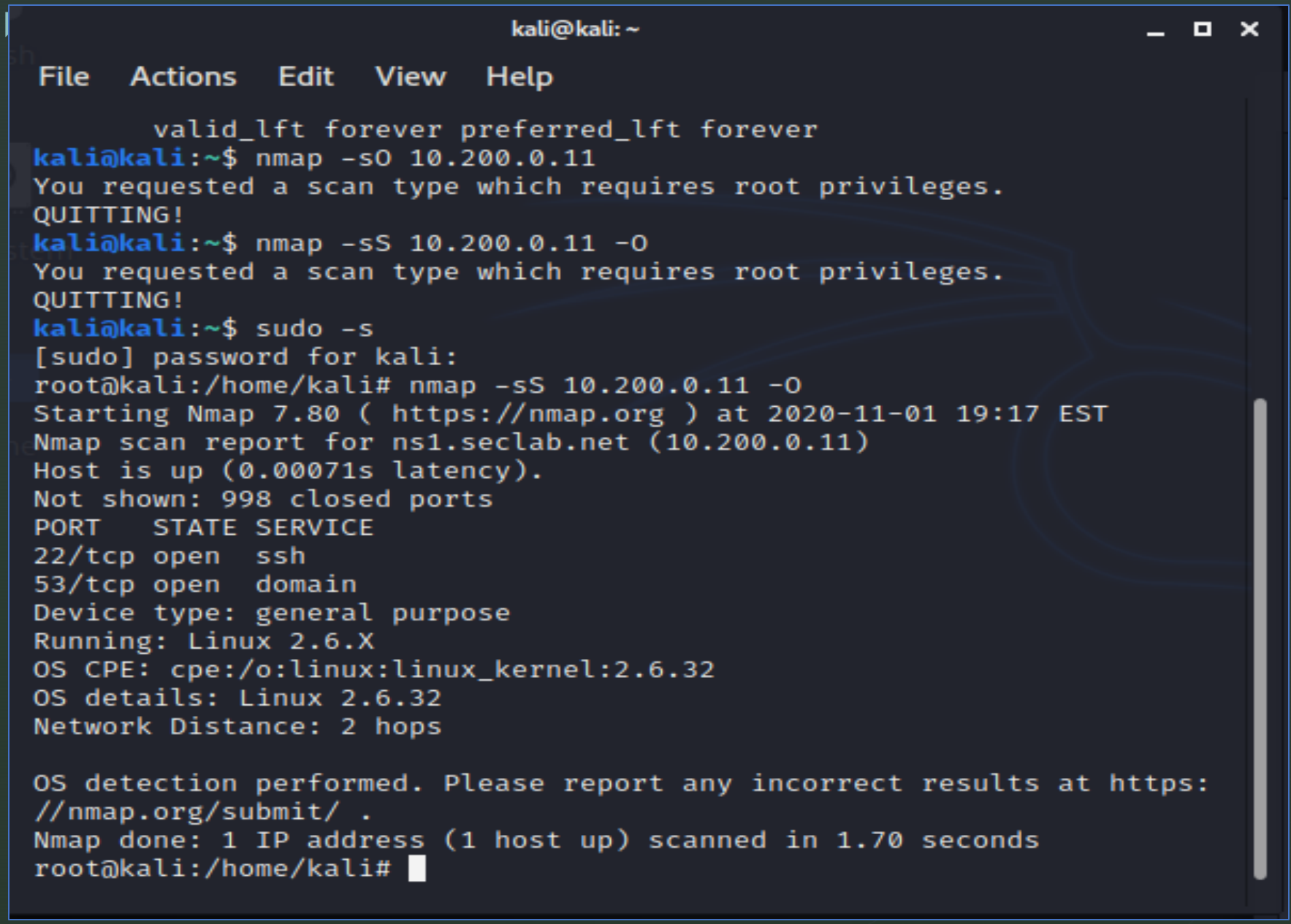
Problems Identified and Their Resolution – Cont'd



Problems Identified and Their Resolution – Cont'd

Problem	Solution
• Unable perform port scans on DNS, webserver in Kali Linux.	• Utilized "sudo su" command. • Perform port scans on the DNS, Web servers.

Problems Identified and Their Resolution – Cont'd



Recommendations

- Update Firewall software periodically.
- Use secured passwords.
- Company wide password resets every 6 months.

Thanks!!

Any Questions!