Executive Summary: Cybersecurity Assessment Report

A. SCOPE

Introduction: This report provides a high-level overview of the recent cybersecurity assessment conducted for [Customer Organization]. The assessment aimed to evaluate the organization's security posture, identify potential risks, and highlight areas for improvement. The findings are summarized below for the senior leadership of [Customer Organization].

Key Risks: The assessment revealed several key risks that warrant attention and proactive management. These risks include:

• Phishing and Social Engineering:

- Employees are susceptible to phishing attacks, posing a significant risk to sensitive information.
- Lack of awareness and training increases the likelihood of successful social engineering attempts.

• Outdated Software and Patching:

- Some systems and applications are running outdated software versions, exposing vulnerabilities.
- Inconsistent patch management practices contribute to an increased risk of exploitation.

• Insufficient Access Controls:

- Inconsistent enforcement of access controls may lead to unauthorized access to critical systems.
- Limited monitoring and auditing of user access increase the potential for insider threats.

• Inadequate Incident Response Plan:

- The current incident response plan lacks comprehensiveness and may result in delayed response times during security incidents.
- Limited testing and training contribute to potential gaps in the effectiveness of the plan.

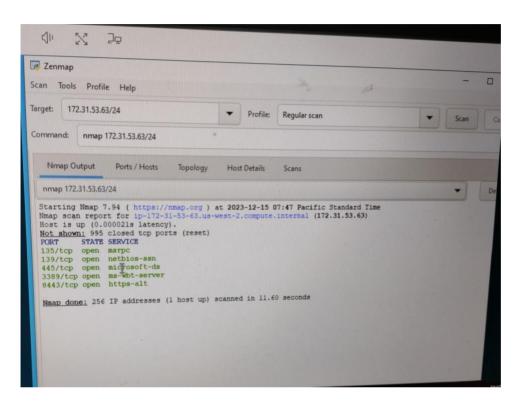
Steps to be followed:

- **1** Information gathering and recon
- 2. Enumeration and service scanning
- 3. Vulnerability assessment
- 4. Vulnerability classification and ranking
- 5. Conclusion

B. Findings from Executive Dashboard:

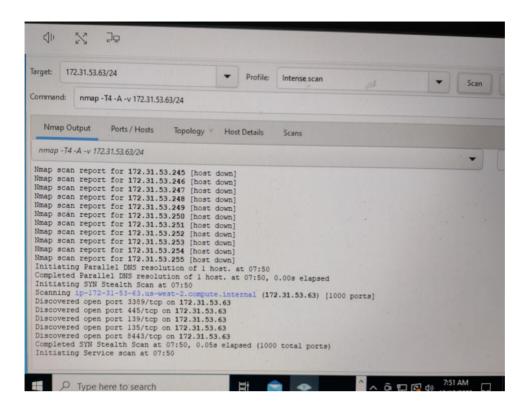
The executive dashboard provided a concise visual representation of the organization's cybersecurity posture. Key findings include:

1. Results for regular scan using Zenmap on Windows



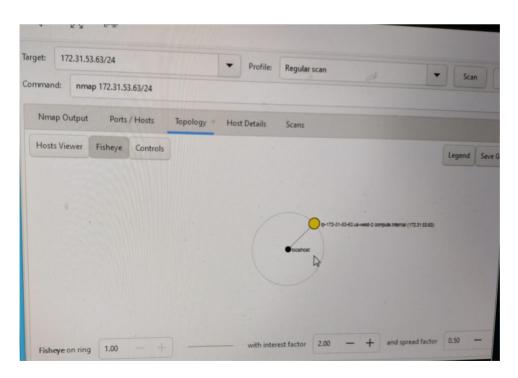
<u>Findings</u>:- When a regular scan is done on Windows with subnet 172.31.53.63/24, It shows 5 open ports mentioned in the figure.

2. Results for intense scan using Zenmap on Windows



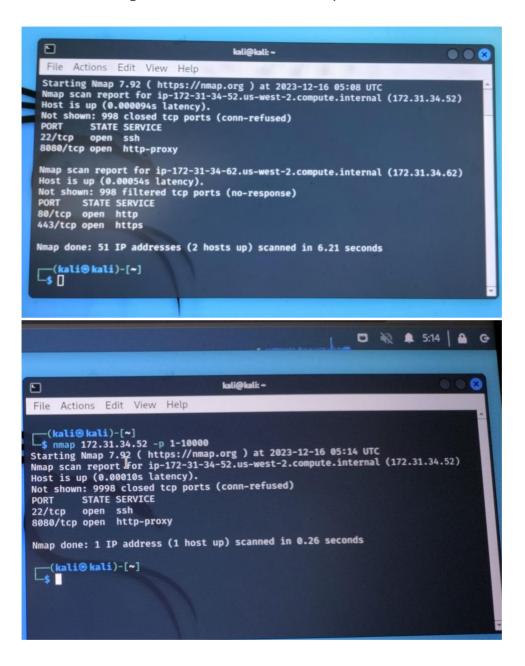
Findings:- It has done a comprehensive scan with IP add or subnet 172.31.53.63/24 and shows tcp ports 3389, 445, 139, 135, 8443 are open.

3. Topology



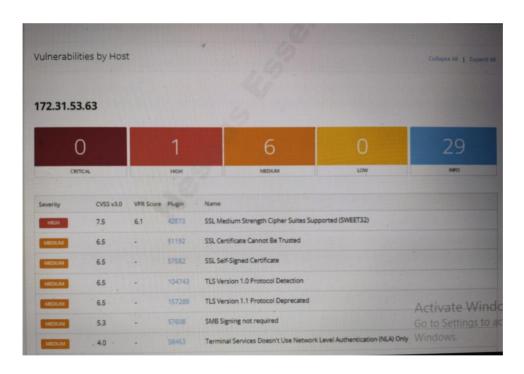
Findings:- The above figure helps to identify the target system for further reconnaissance

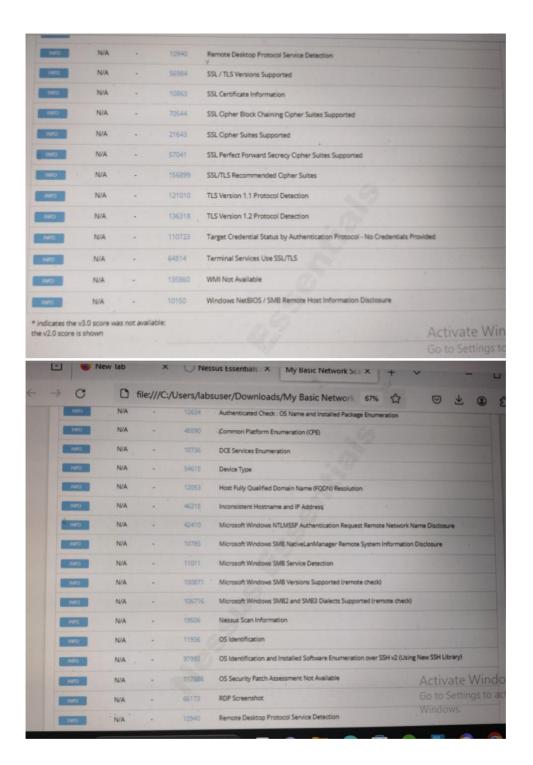
4. Results for regular and Intense scan on Kali/ Debian Linux



Findings:- Here tcp ports 22 and tcp port 8080 are open when scans are done on Kali/Debian linux

5. Results for Vulnerability Assessment on Windows using Nessus tool





Findings:- There are 0 critical 1 high risk and 6 medium risk vulnerabilities are found on Windows with IP Address 172.31.53.63 using Nessus tool.

6. Results for Vulnerability Assessment on Kali/Debian Linux



Findings:- No critical vulnerability is found when Nessus scan is done on Linus (Kali/Debian) with IP address 172.31.34.52

C. Preventive suggestions:-

• Risk Distribution:

• Risks are distributed across various departments, emphasizing the need for a holistic approach to cybersecurity.

• Incident Trends:

• A notable increase in security incidents, particularly phishing attempts, highlights the urgency for improved security measures.

• Compliance Status:

 Some areas require attention to ensure compliance with industry standards and regulations.

Areas of Improvement: To enhance the organization's cybersecurity resilience, the following areas require immediate attention:

• Employee Training:

• Implement a comprehensive cybersecurity training program to educate employees on phishing risks and best practices.

• Patch Management:

• Establish a robust and consistent patch management process to promptly address software vulnerabilities.

• Access Control Enhancements:

- Strengthen access controls through regular reviews, privileged access management, and enhanced monitoring.
- Incident Response Plan Enhancement:
- Review and update the incident response plan, ensuring regular testing and training for all relevant stakeholders.

D. Conclusion: Addressing the identified risks and implementing improvements in the highlighted areas is crucial for strengthening [Customer Organization]'s cybersecurity posture. By proactively managing these challenges, the organization can significantly reduce the risk of security incidents and better safeguard its sensitive information.

For further details and a more in-depth technical analysis, the detailed assessment report is available upon request.