Student:	Email:
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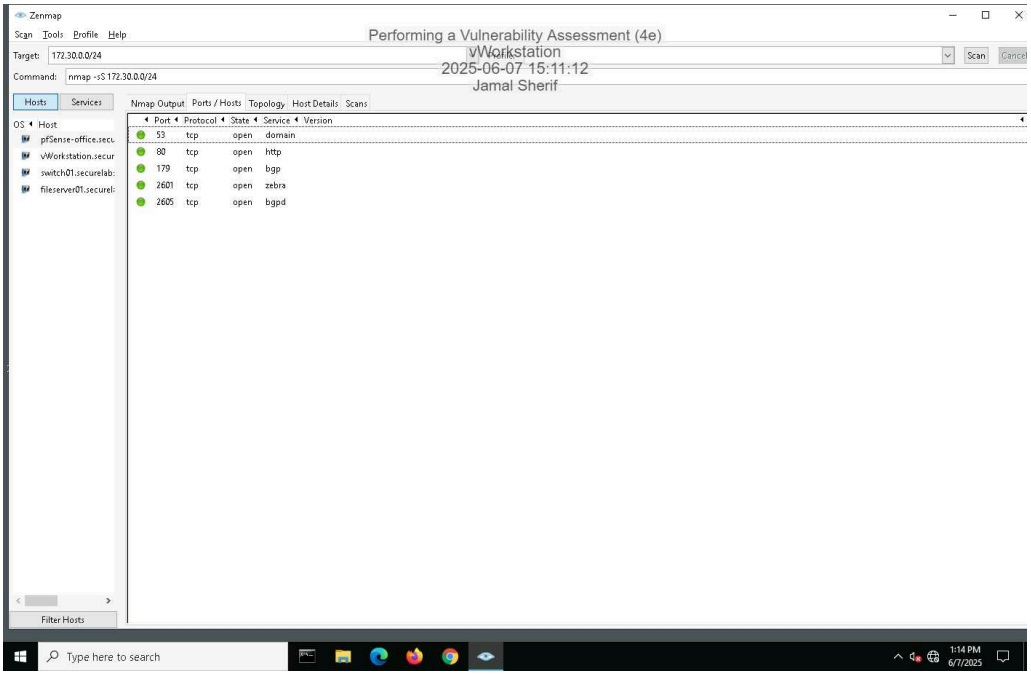
Time on Task:	Progress:
7 hours, 41 minutes	100%

Report Generated: Tuesday, September 30, 2025 at 5:34 PM

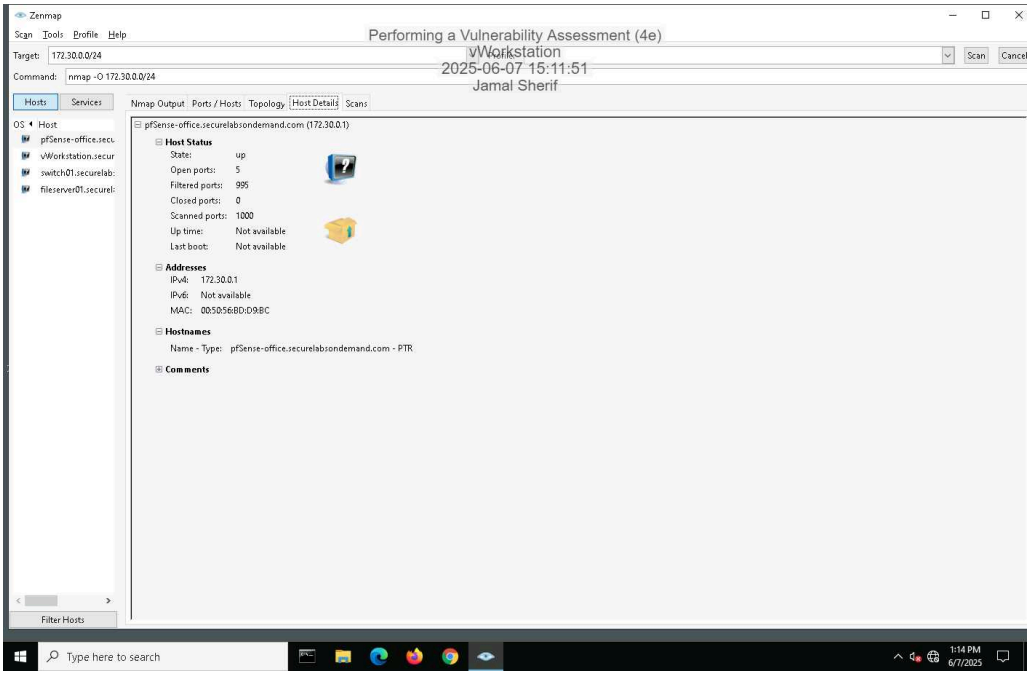
Section 1: Hands-On Demonstration

Part 1: Scan the Network with Zenmap

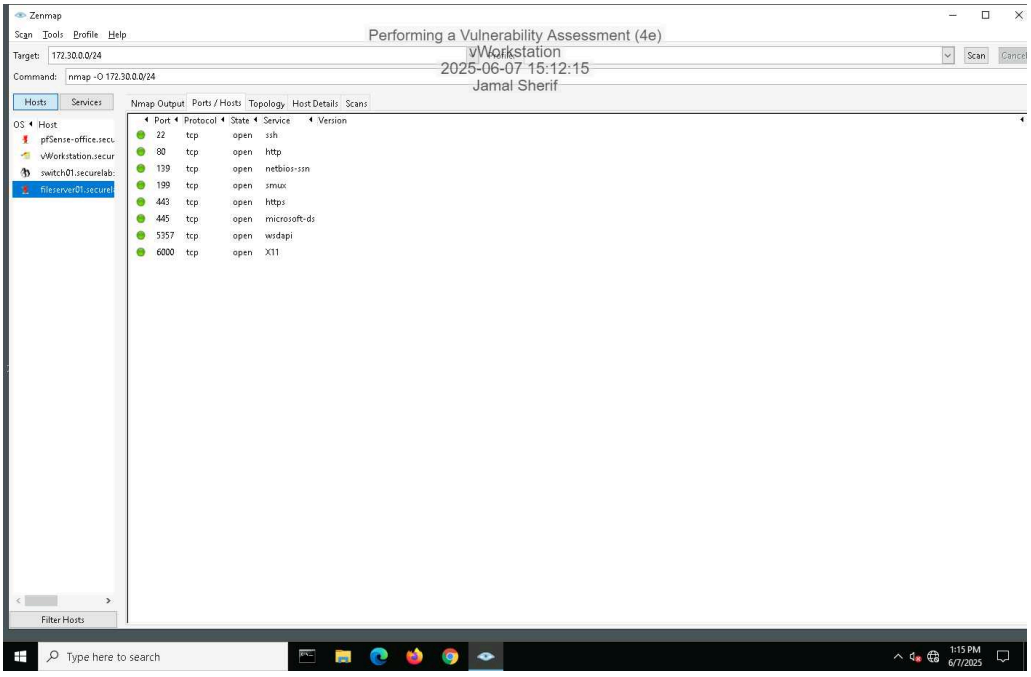
9. **Make a screen capture** showing the contents of the **Ports/Hosts tab from the SYN scan for fileserver01.securelabsondemand.com**.



15. **Make a screen capture** showing the contents of the **Host Details tab from the OS scan for fileserver01.securelabsondemand.com**.

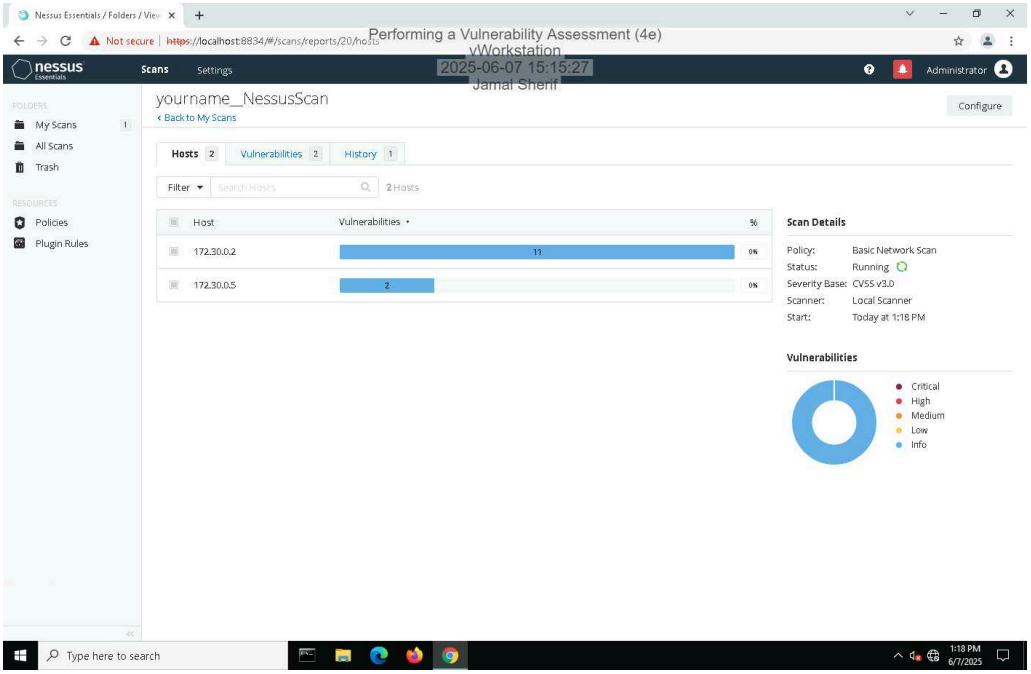


19. **Make a screen capture** showing the details in the **Ports/Hosts tab from the Service scan for fileserver01.securelabsondemand.com.**



Part 2: Conduct a Vulnerability Scan with Nessus

14. **Make a screen capture** showing the **Nessus report summary**.



Part 3: Evaluate Your Findings

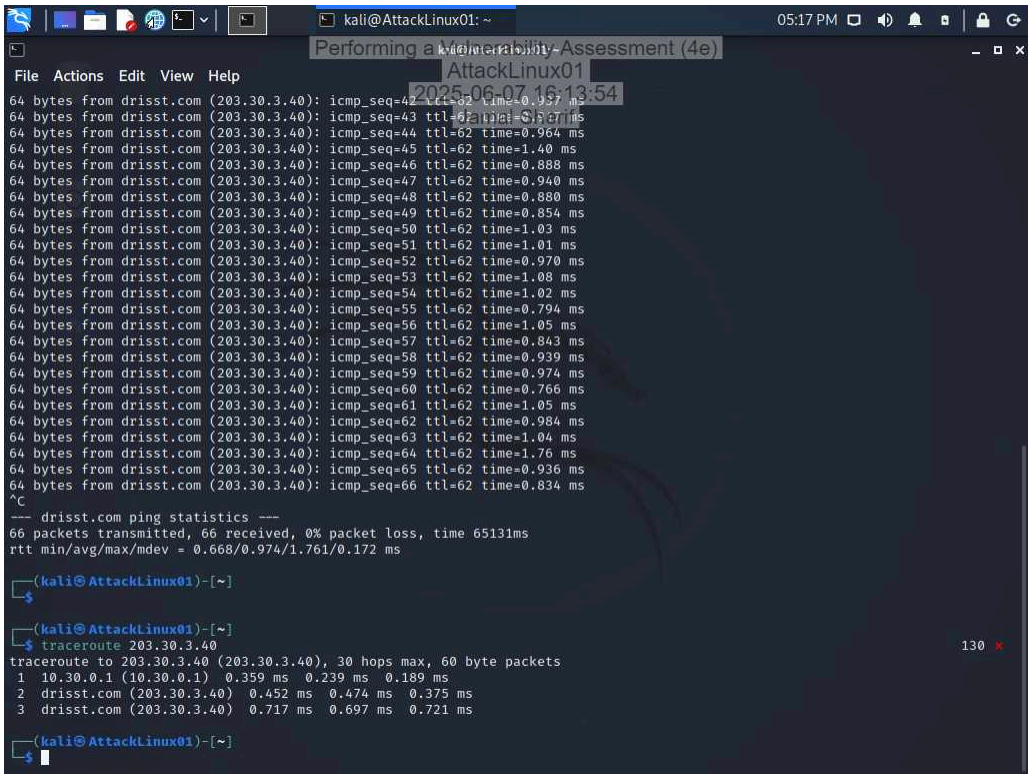
11. **Summarize** the vulnerability you selected, including the CVSS risk score, and **recommend** a mitigation strategy.

cvss risk 10Caused by bad usage of cryptographic routines in Netlogon’s secure channel protocol, enabling attackers to spoof the identity of any computer on the networkMicrosoft releases patches ,two part patch rollout:

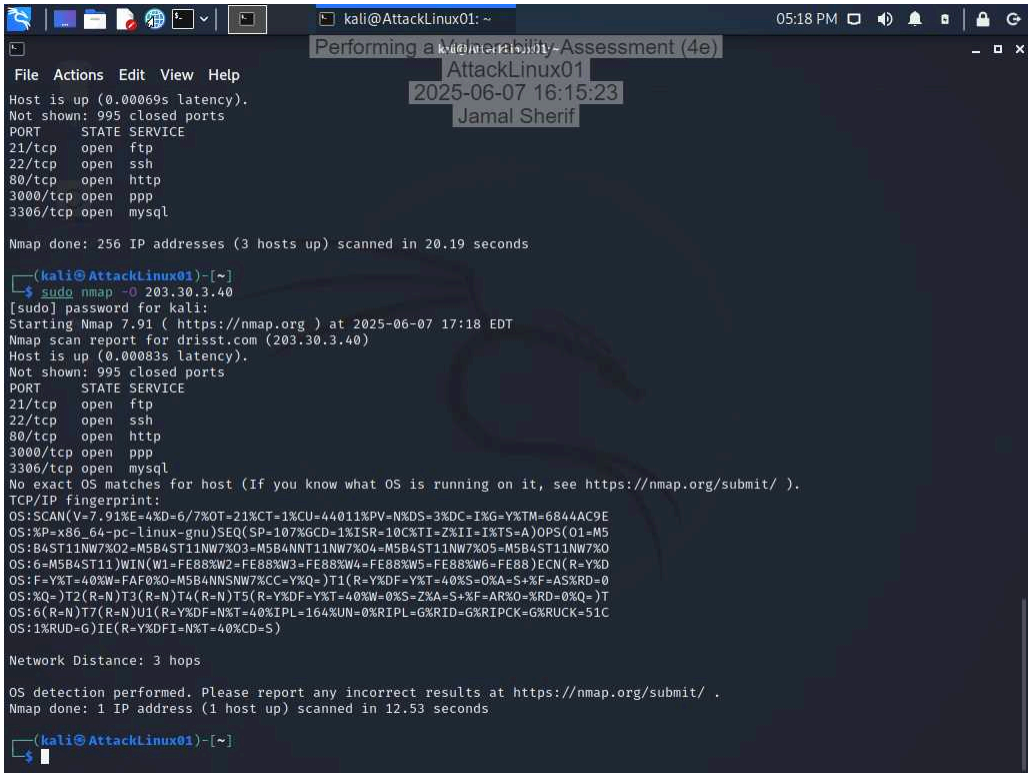
Section 2: Applied Learning

Part 1: Scan the Network with Nmap

6. **Make a screen capture** showing the **results of the traceroute command**.

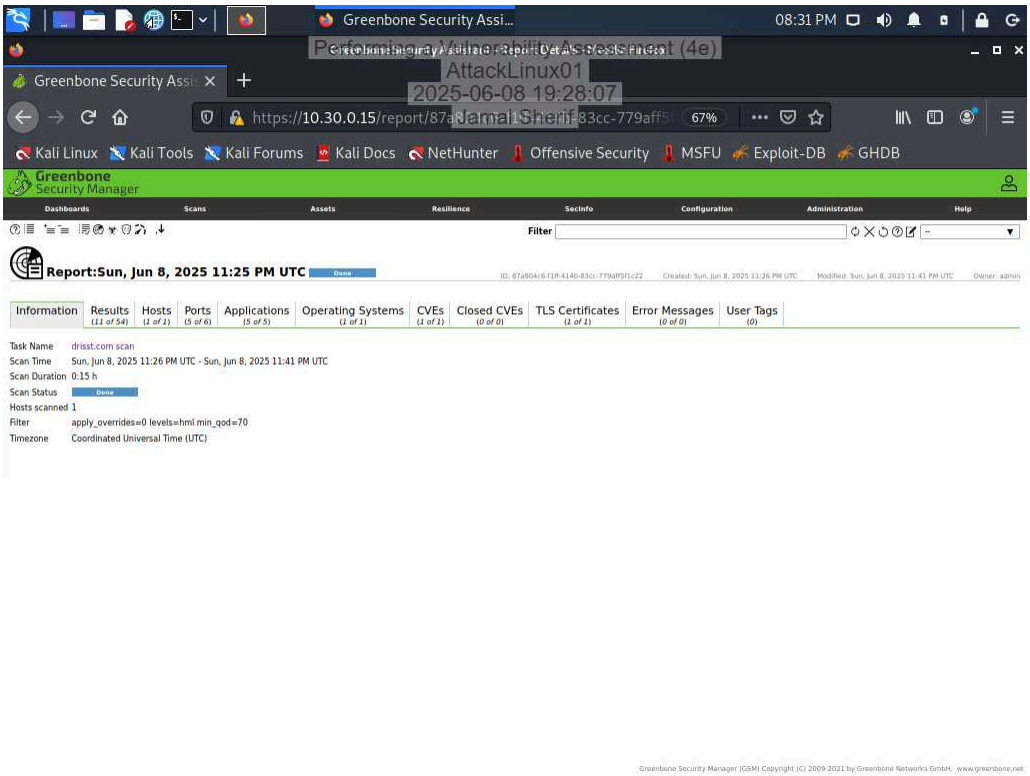


10. **Make a screen capture** showing the **results of the Nmap scan with OS detection activated**.



Part 2: Conduct a Vulnerability Scan with OpenVAS

13. **Make a screen capture** showing the **detailed OpenVAS scan results**.



Part 3: Prepare a Penetration Test Report

Target

Insert the target here.

drisst.com 203.30.3.60

Completed by

Insert your name here.

Jamal Sherif

On

Insert current date here.

6/7/25

Purpose

Identify the purpose of the penetration test.

Goal of this penetration test was to look for serious security weaknesses on the target 203.30.3.60 server. Using OpenVAS to run a vulnerability scan and focused specifically on high severity issues. This test show what kinds of problems might allow an attacker to gain access or control of the system, and what steps should be taken to fix them.

Scope

Identify the scope of the penetration test.

I just used OpenVAS to scan for known issues. The scan covered open services on the server and focused only on the top three high-risk vulnerabilities that could pose a serious threat.

Summary of Findings

Identify and summarize each of the three high-severity vulnerabilities identified during your penetration test. For each vulnerability, identify the severity, describe the issue, and recommend a remediation.

Severity 9 MySQLSummary: database on the server is using weak username and password
result: the scan was able to login as the user "password"attackers can login with root username and password.
remedy: change the password as soon as possible and with using a strong password.
vsftpd severity 7.5: the ftp server is running a version of vsftpd with a backdoor vulnerability.the scan confirmed that a vulnerable version of that software is installed.attackers could use this as a backdoor to execute commands and infiltrate the system.
remedy: update or replace the software.
severity 7.5: the ftp service allows only anonymous users to loginthe scanner successfully connected using an anonymous login userunauthorized users may access files or directories which would risk data exposure.remedy: disable anonymous login
severity 4.5: the application is missing the httpOnly cookie.scanner found that a cookie thats named cookie.sid was being set without it.without this , cookies are exposed to attacks like XSS and hijack the user.remedy: add the httpOnly attributeseverity 4.5: the web application is sending data that is sensitive over an unencrypted http connectionan attacker can intercept the data being sent back and forth and steal private informationremedy: the data needs to go through an encrypted https
severity 4.5: the remote host is running a ftp service that allows cleartext logins over unencrypted connectionsan attacker can uncover login names and passwords by looking around the ftp serviceremedy: enable ftp or enforce tls connections via auth tls.
severity 4.5: server is still supporting an older version of TLSattackers can exploit or know flaws to eavesdrop the connection between clients and the service to get access to sensitive data transferred within secured connection.remedy: disable tlsv1.0 and 1.1

Conclusion

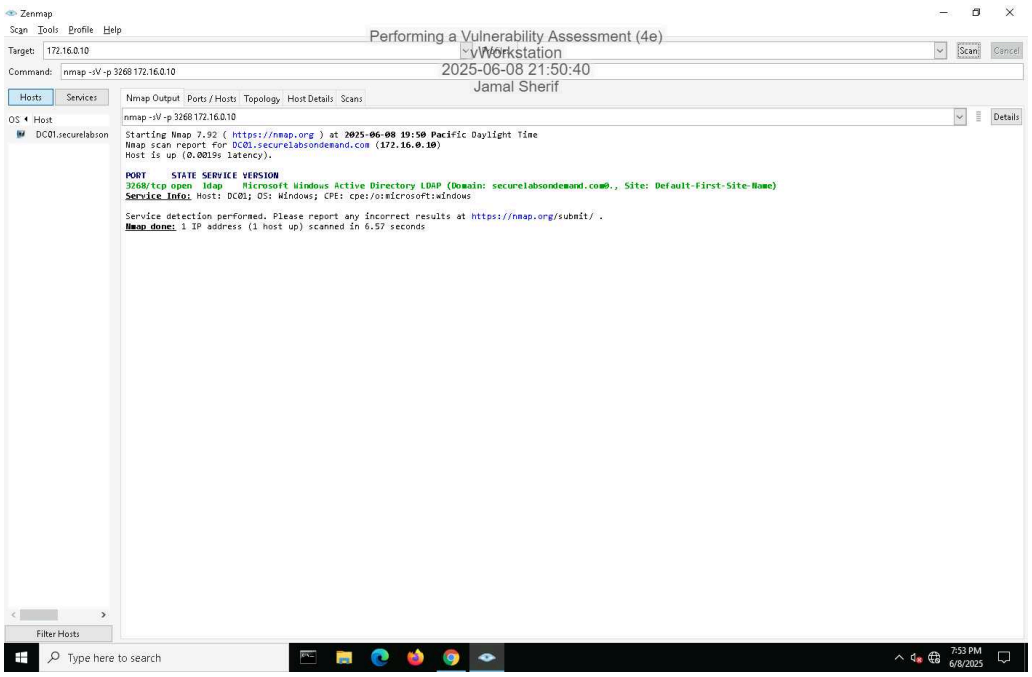
Identify your key findings.

the scan for drisst.com showed me a lot of very serious issues like for example the cleartext transmission. Overrall these issues show that we needed better ways for encryption or changing your root password.

Section 3: Challenge and Analysis

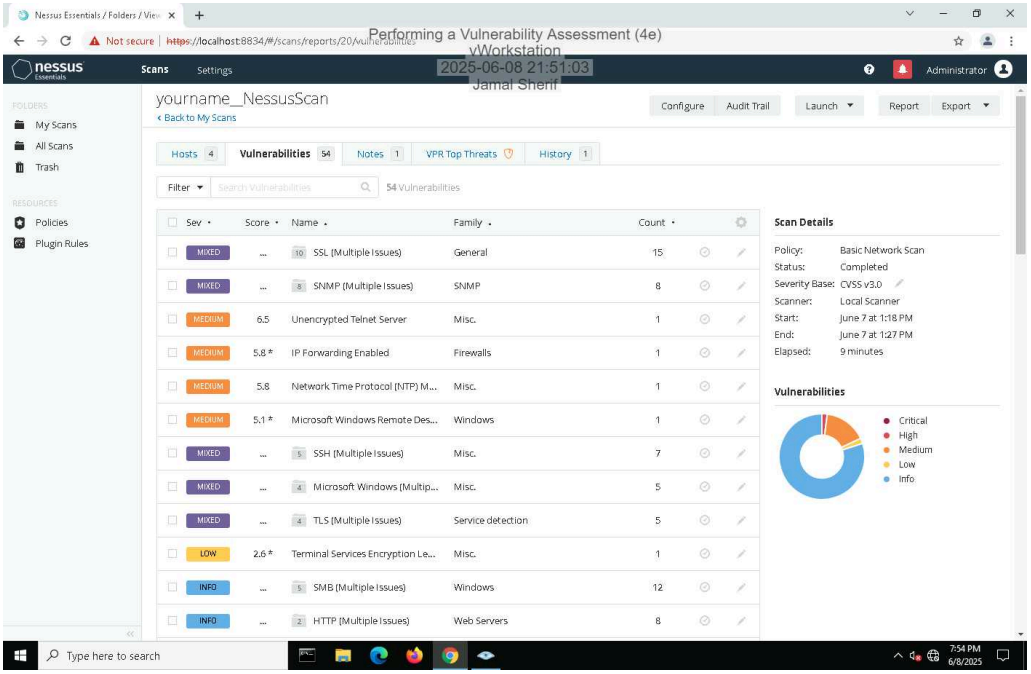
Part 1: Scan the Domain Controller with Nmap

Make screen capture showing the **results of your targeted port scan on the domain controller**.



Part 2: Scan the Domain Controller with Nessus

Make a screen capture showing the **Nessus report summary for the domain controller**.



Part 3: Prepare a Penetration Test Report

Target

Insert the target here.

172.30.0.2

Completed by

Insert your name here.

Jamal Sherif

On

Insert current date here.

6/8/25

Purpose

Identify the purpose of the penetration test.

to find any security vulnerabilities in the hosts.

Scope

Identify the scope of the penetration test.

find vulnerabilities using the scan in the vWorkstation

Summary of Findings

Identify and summarize each vulnerability identified during your penetration test. For each vulnerability, identify the severity, describe the issue, and recommend a remediation.

server is still supporting old versions of TLSIt supports TLSv1.2, the server also supports TLSv1.0 and TLSv1.1any attacker could exploit known flaws like to break encryption or find sensitive data.

Conclusion

Identify your key findings.

This test was able to find vulnerabilities and expose it so we can find fix it because it gave us solutions to it.