Lab 33: Network Vulnerability Scanning with OpenVAS (GVM)

Lab Number: 33

Tool Used: OpenVAS / Greenbone Vulnerability Manager (GVM)

Platform: Kali Linux

Objective: Learn to perform a quick vulnerability scan on a network using OpenVAS (GVM)

Task 1: Installing OpenVAS (GVM)

Command Used:

sudo apt install openvas



• Result: Installed OpenVAS package successfully on Kali Linux.

Verification Commands:

openvas

openvas -h



• Result: OpenVAS command recognized; help screen displayed successfully, confirming the installation.

Task 2: Setting Up GVM (Greenbone Vulnerability Manager)

• Note: OpenVAS is now called Greenbone Vulnerability Manager (GVM).

Command Used:

sudo gvm-setup



- **Observation:** This process downloaded a large plugin database (~20–30 minutes).
- **Result:** Setup completed successfully.
 - A default **admin password** was generated on-screen.
 - Action Taken: Saved the admin password into a .txt file for later login.

Installation Check Command:

sudo gvm-check-setup

- Result: Displayed 0K across all setup checks, confirming readiness.
- Action Taken: Rebooted Kali Linux to finalize setup.

Task 3: Starting GVM Web Interface

Command Used:

sudo gvm-start

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Result: Firefox browser launched automatically with:

https://127.0.0.1:9392

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- Action Taken:
 - Accepted self-signed certificate warning.
 - o Logged into the **Greenbone Web UI** using:
 - Username: admin
 - Password: (from earlier setup)
- Result: Successfully accessed the Greenbone Vulnerability Manager Dashboard.

Task 4: Running a Quick Vulnerability Scan

- Action Taken:
 - Navigated to Scans → Tasks.
 - Clicked the wand icon on top left and selected Advanced Task Wizard.
- Scan Setup:
 - Named the scan: Home Network Quick Scan
 - o Entered target IP/subnet: 192.168.1.0/24 (adjust based on actual network)

- o Clicked Create
- **V** Result:
 - The task was successfully created.
 - The vulnerability scan started automatically.
- **Observation:** The scan took several minutes to complete.

☐ Task 5: Viewing Scan Results

- Action Taken:
 - Went to Scans → Results in the top menu.
- Result: Displayed a detailed list of vulnerabilities discovered in the scanned network.
- Further Action:
 - Clicked into individual results to read:
 - Vulnerability name
 - Affected host
 - Risk level (High, Medium, Low)
 - Suggested remediation steps

Conclusion / Summary

This lab demonstrated how to install, configure, and operate **OpenVAS (GVM)** to perform vulnerability scanning on a network. After setting up the tool and accessing its web interface, a **quick scan** of the home network was launched. The scan results revealed potential vulnerabilities, complete with detailed remediation recommendations.



- Installing and configuring OpenVAS/GVM
- Launching the web dashboard via https://127.0.0.1:9392
- Performing a subnet-based scan using the Advanced Task Wizard
- Interpreting vulnerability results and remediation steps