Nikto Web Vulnerability Scan

This lab demonstrates how to set up and run a vulnerability scan using Nikto against a vulnerable machine (Metasploitable). The goal is to identify insecure configurations, outdated software, and common web vulnerabilities.

Lab Setup: -

Attacker Machine: Kali Linux (Nikto pre-installed)

- Target Machine: Metasploitable 2/3 (vulnerable web services)
- Network: Host-Only or NAT (ensure both VMs are on the same network)

Step 1: Identify IP Addresses

Run the following command on both Kali and Metasploitable to identify IPs: ifconfig Example:

- Kali: 192.168.56.101

- Metasploitable: 192.168.56.102

Step 2: Verify Target Web Service

On Kali, open a browser and visit:

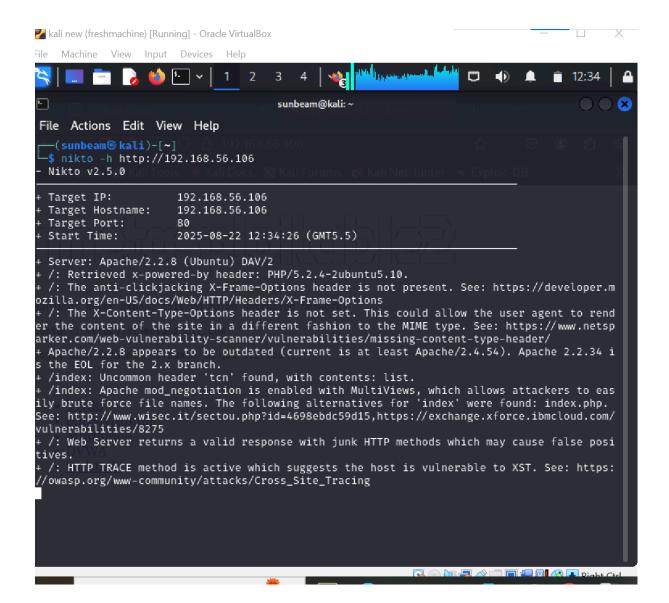
http://192.168.56.102

You should see the Metasploitable default web page.

Step 3: Run Nikto Scan

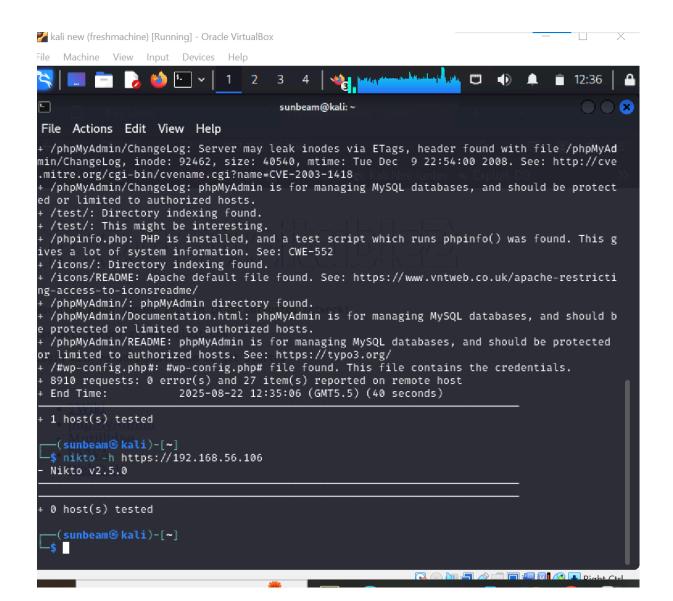
Basic Scan:

nikto -h http://192.168.56.102



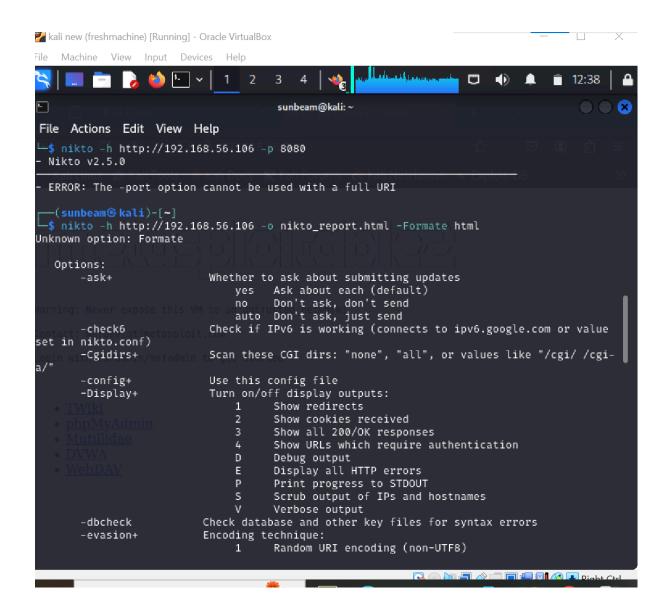
SSL Scan:

nikto -h https://192.168.56.106



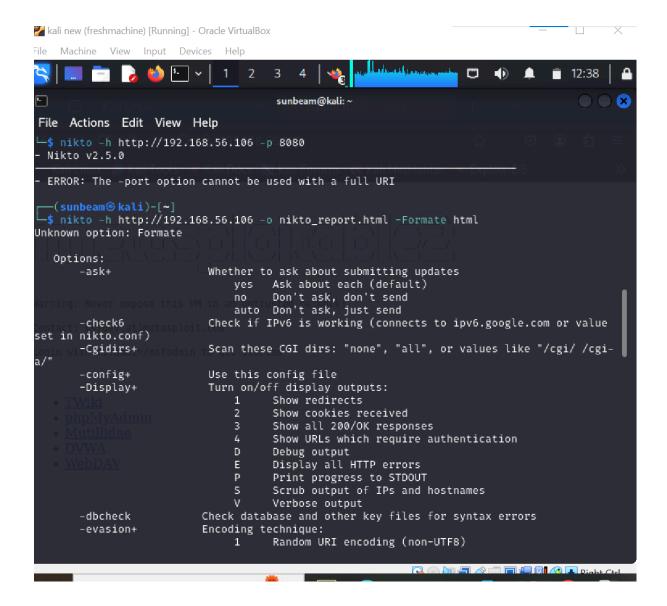
Specify Port:

nikto -h http://192.168.56.106 -p 8080



Save Report:

nikto -h http://192.168.56.102 -o nikto_report.html -Format html



Step 4: Analyze Results

Nikto will provide details such as:

- Outdated software versions
- Insecure HTTP methods (PUT, DELETE)
- Interesting files (/phpmyadmin, /test, /robots.txt)
- CVE references

Step 5: Reporting

Include in your report:

- Screenshots of Nikto command execution
- Highlight detected CVEs and vulnerabilities
- Suggested remediation (e.g., patch Apache, disable risky methods)

Conclusion: This lab shows how Nikto can be used to quickly identify web application vulnerabilities. The results should always be validated and followed by recommended remediation steps.