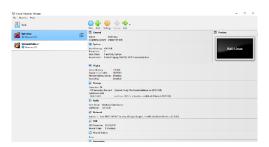
Vulnerability Scanning Using Nmap

Task-1: Network Configuration & Connectivity

a.) Kali Linux & Metasploitable VMs



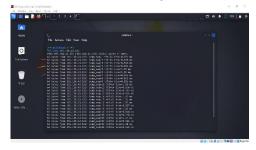


b.) Verify IP address using "ifconfig"





c.) Use "ping" to confirm connectivity between the machines



Task-2:- Basic Port Scan

Run a simple Nmap scan on the Metasploitable target using "nmap <target-ip>"



Task-3: - Service Version Detection

Run a version detection scan using "nmap -sV <target-ip>"

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Task-4: Operating System Fingerprinting

Run an OS detection scan using "nmap -O <target-ip>"

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Task-5: - Aggressive Scan

Perform a full aggressive scan using "nmap -A <target-ip>"

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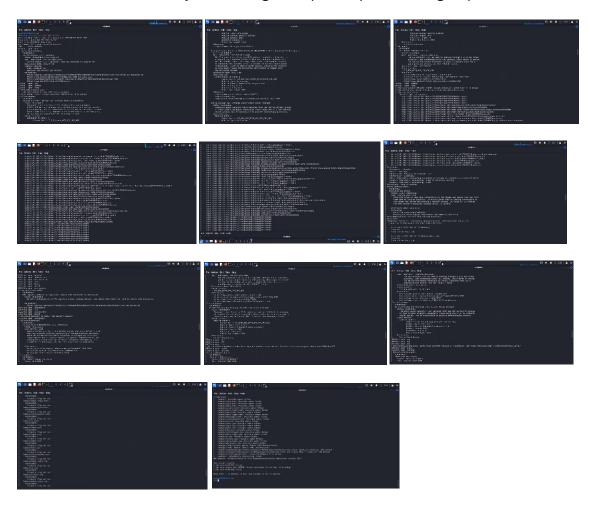






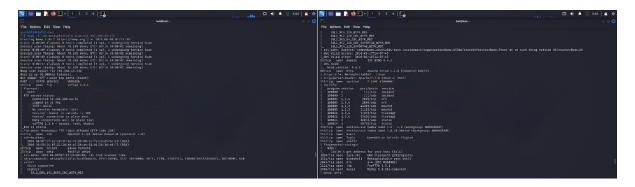
<u>Task-6</u>:- Vulnerability Detection Using NSE Scripts

Run a vulnerability scan using "nmap --script vuln <target-ip>"



<u>Task-7</u>:- Report Generation & Documentation

Save your scan results to a text file using "nmap -A -oN metasploitable_scan.txt <target-ip>"



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Task-8: - Analysis Of Findings

Port	Service	Version	Known Vulnerability
21	ftp	vsftpd 2.3.4	Brute-Forcing passwords, Man-in-the-
			middle
22	ssh	OpenSSH 4.71p1	Leaked SSH keys, Brute-forcing
			Credentials
23	telnet	Linux telnetd	Credential brute-forcing, spoofing and
			credential sniffing
25	smtp	Postfix smtp	Spoofing, spamming
53	domain	ISC Bind 9.4.2	DDoS attacks
80	http	Apache 2.2.8	SQL injections, Cross-site scripting
111	rpcbind	2	Difficult to Detect, Difficult to Resolve
139	netbios-ssn	Samb smbd 3.x –	EternalBlue exploit, Capturing NTLM
		4. x	Hashes

445	netbios-ssn	Samb smbd 3x – 4x	Inject Malware, Ransomware
513	login	-	Brute force, Multipe buffer overflows