EC-Council Licensed Penetration Tester

Methodology: VPN Penetration Testing

Penetration Tester:		
Organization:		
Date:	Location:	



Test 1: Check the target organization's VPN security policy

Target Organization			
URL			
VPN Security Policy En	forced	☐ YES	NO
Tools/Services Used	1.		
	2.		
	3.		
	4.		
	5.		
Results Analysis:			

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Test 2.1: Scanning - 500 UDP IPsec				
Target Organization				
URL				
Target URL				
State of the UDP Port 5	500	☐ Open	☐ Closed	
ISAKMP Service (IPSec Running on Port 500	VPN Server) is	□ Yes	□ No	
Tools/Services Used	1.			
	2.			
	3.			
	4.			
	5.			
Results Analysis:				

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Test 2.2: Scanning - 1723 TCP PPTP			
Target Organization			
URL			
Target URL			
State of the TCP Port 1	723	☐ Open	☐ Closed
PPTP Service is Running	g on Port 1723	☐ Yes	□ No
Tools/Services Used	1.		
	2.		
	3.		
	4.		
	5.		
Results Analysis:			

Test 2.3: Scanning - 443 TCP/SSL				
Target Organization				
URL				
Target URL				
State of the TCP Port 4	43	☐ Open	☐ Closed	
Tools/Services Used	6.			
	7.			
	8.			
	9.			
	10.			
Results Analysis:				

Test 2.4: Scanning - Ipsecscan xxx.xxx.xxx.xxx-255

Target Organization	
URL	
Single IP Address Scan	
Range of IP Addresses Scanned	
IPSEC Enabled Systems	
Tools/Services Used	1.
	2.
	3.
	4.
	5.
Results Analysis:	

Test 3: Fingerprinting

Target Organization	
URL	
VPN Vulnerabilities	1.
Detected	2.
	3.
Information	1.
Gathered through	2.
Fingerprinting	3.
Tools/Services Used	1.
	2.
	3.
	4.
	5.

Results Analysis:			

Test 3.1: Get the IKE handshake

Target Organization	
URL	
Host URL	
Acceptable	1.
Transform Attributes from the Security	2.
Association (SA)	3.
Payload	
Combination of	1.
Transfer Attributes Tried	2.
	3.
Tools/Services Used	1.
	2.
	3.
	4.
	5.

Results Analysis:			

Test 3.2: UDP Backoff fingerprinting

Target Organization	
URL	
Host URL	
Implementation	1.
Guess	2.
	3.
Information	1.
Gathered	2.
	3.
Tools/Services Used	1.
	2.
	3.
	4.
	5.

Results A				

Test 3.3: Vendor ID fingerprinting

Target Organization	
URL	
Vendor ID Payload	1.
	2.
	3.
Other Information Gathered	1.
	2.
	3.
Tools/Services Used	1.
	2.
	3.
	4.
	5.

Results Analysis:			

Test 3.4: Check for IKE aggressive mode					
Target Organization					
URL					
Host URL					
Aggressive Mode Enab	led	☐ YES		□ NO	
Tools/Services Used	1.				
	2.				
	3.				
	4.				
	5.				
Results Analysis:					

Test 4: Test for default user accounts and passwords

EC VPN: Default	User Accounts and Passwords	
EC VPN: Default	Lisor Accounts and Passwords	
	OSEI ACCOUNTS AND PASSWOIDS	
ounts	Passwords	
	1.	
	2.	
	3.	
	4.	
	5.	
1.		
2.		
3.		
4.		
5.		
	2. 3. 4.	2. 3. 4. 5. 1. 2. 3. 4.

Test 5: Check for unencrypted user name in a file or the registry

Target Organization				
URL				
Password File or Registry Entry				
Successfully Recovered	d Passwords	☐ YES	□ NO	
Recovered	1.			
Passwords	2.			
	3.			
	4.			
	5.			
	3.			
	_			
Tools/Services Used	1.			
	2.			
	3.			
	4.			
	5.			
Results Analysis:				
Results Analysis.				

Test 6:	Test for	plain-text	password
i Cot o.	1 636 101	piani text	Passavoia

Target Organization					
URL					
VPN Client Established to Obtain the Pass		☐ YES	□ NO		
Plain-text Password Recovered					
Tools/Services Used	1.				
	2.				
	3.				
	4.				
	5.				
Results Analysis:					

Test 7: Perform user name enumeration

Target Organization	
URL	
Response Given by the VPN Endpoint to an Authentication Attempt	1. 2. 3.
List of Valid Usernames	1. 2. 3.
Tools/Services Used	1. 2. 3. 4. 5.

Results Analysis:			

Test 8: Check account lockout in VPN

Target Organization	
URL	
Connection t	O VPN Tunnel Using Correct User Name and False Password
Threshold defined by the system for failed login a	
Amount of time require account credentials	d to reset user
Impact of the Test	1.
	2.
	3.
Tools/Services Used	1.
	2.
	3.
	4.
	5.
Results Analysis:	

Test 9: Audit VPN traff	fic		
Target Organization			
URL			
Sniffing Techniques Used to Intercept VPN Traffic			
Traffic Intercepted Before it Passes the Tunnel			
Traffic Intercepted After it Passes the Tunnel			
Decrypt Traffic Off the	Line	☐ Successful	☐ Unsuccessful
Recover Sensitive Information	1. 2.		
	3.		
	4.		
	5.		
Tools/Services Used	1.		
	2.		
	3.		
	4.		
	5.		
Results Analysis:			

Test 10: Check for proper firewalling in VPN

Target Organization			
URL			
	Open Ports	in the Firewall	
1.		4.	
2.		5.	
3.		6.	
Packets Passed	1.		
through TCP and UDP Filtering in the	2.		
Firewall	3.		
Results from	1.		
examined Firewall Logs	2.		
	3.		
	4.		
Tools/Services Used	1.		
	2.		
	3.		
	4.		
	5.		

Results Analysis:							

Test 11: Check denial-of-services in VPN

Target Organization	
URL	
Router Effect on the VPN Under DoS Attack	1. 2. 3.
Effect on the VPN due to Shared Part of the Network under DoS Attack	1. 2. 3.
Tools/Services Used	1. 2. 3. 4. 5.

Results Analysis:							