PROGETTO FINALE W12D4

TRACCIA:

Effettuare una scansione completa sul target Metasploitable 2 con Nessus.

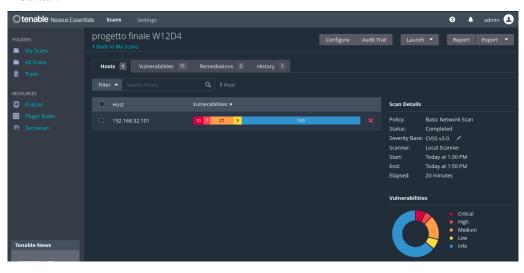
Scegliere da 2 a 4 vulnerabilità critiche (facoltativo: una 5 a scelta) e provare ad implementare delle azioni di rimedio. Consegnare:

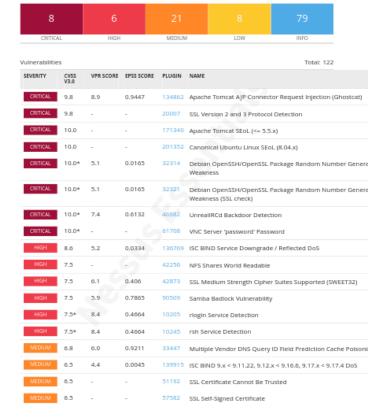
- 1. Scansione Inizio: scansione iniziale dove si vede il grafico con tutte le vulnerabilità
- 2. Remediation Meta: spiegazione dei passaggi della remediation
- 3. Scansione Fine: scansione dopo le modifiche che evidenzia la risoluzione dei problemi/vulnerabilità

SOLUZIONE:

1. SCANSIONE INZIO

Create new scan \rightarrow basic network scan \rightarrow dare un nome e l'indirizzo del target \rightarrow discovery \rightarrow port scan (all ports) \rightarrow save \rightarrow cliccare su play Risultati:





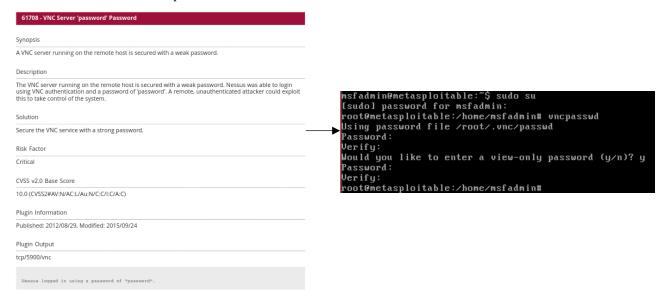
192.168.32.101

MEDIUM	6.5		-	104743	TLS Version 1.0 Protocol Detection
MEDIUM	6.5		-	42263	Unencrypted Teinet Server
MEDIUM	5.9	4.4	0.9234	136808	ISC BIND Denial of Service
MEDIUM	5.9	4.4	0.027	31705	SSL Anonymous Cipher Suites Supported
MEDIUM	5.9	3.6	0.8991	89058	SSL DROWN Attack Vulnerability (Decrypting RSA with Obsole and Weakened encryption)
MEDIUM	5.9	7.3	0.9303	65821	SSL RC4 Cipher Suites Supported (Bar Mitzvah)
MEDIUM	5.3	-	-	12085	Apache Tomcat Default Files
MEDIUM	5.3	-	-	12217	DNS Server Cache Snooping Remote Information Disclosure
MEDIUM	5.3	4.0	0.8269	11213	HTTP TRACE / TRACK Methods Allowed
MEDIUM	5.3	-	-	57608	SMB Signing not required
MEDIUM	5.3	-	-	15901	SSL Certificate Expiry
MEDIUM	5.3	-	-	45411	SSL Certificate with Wrong Hostname
MEDIUM	5.3		-	26928	SSL Weak Cipher Suites Supported
MEDIUM	5.0*	4.4	0.8222	10595	DNS Server Zone Transfer Information Disclosure (AXFR)
MEDIUM	4.0*	7.3	0.6945	52011	SMTP Service STARTTLS Plaintext Command Injection
MEDIUM	4.3*	-	-	90317	SSH Weak Algorithms Supported
MEDIUM	4.3*	1.4	0.9243	81606	SSL/TLS EXPORT_RSA <= 512-bit Cipher Suites Supported (FRE
LOW	3.7	1.4	0.0307	70658	SSH Server CBC Mode Ciphers Enabled
LOW	3.7	-	-	153953	SSH Weak Key Exchange Algorithms Enabled
LOW	3.7	4.5	0.9403	83875	SSL/TLS Diffie-Hellman Modulus <= 1024 Bits (Logjam)
LOW	3.7	4.5	0.9403	83738	SSL/TLS EXPORT_DHE <= 512-bit Export Cipher Suites Suppor (LogJam)
LOW	3.4	5.1	0.942	78479	SSLv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE)
LOW	2.1*	2.2	0.0037	10114	ICMP Timestamp Request Remote Date Disclosure
LOW	2.6*		-	71049	SSH Weak MAC Algorithms Enabled
LOW	2.6*			10407	X Server Detection
LOW	2.6* N/A	-	-	10407	X Server Detection RPC portmapper Service Detection
			-		
INFO	N/A	- - -	- - -	10223	RPC portmapper Service Detection
INFO INFO	N/A N/A			10223 21186	RPC portmapper Service Detection AJP Connector Detection
INFO INFO	N/A N/A N/A	- - - -	- - - -	10223 21186 18201	RPC portmapper Service Detection AJP Connector Detection Apache Banner Linux Distribution Disclosure
INFO INFO INFO	N/A N/A N/A	- - - - -	- - - - -	10223 21180 18201 48204	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version
INFO INFO INFO INFO	N/A N/A N/A N/A	-		10223 21180 18201 48204 39440	RPC portmapper Service Detection AJP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection
INFO INFO INFO INFO INFO	N/A N/A N/A N/A N/A			10223 21186 18201 48204 39446 39519	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP)
INFO INFO INFO INFO INFO INFO	N/A N/A N/A N/A N/A N/A			10223 21180 18261 48204 39440 39519 84574	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Torncat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (PHP)
INFO INFO INFO INFO INFO INFO INFO	N/A N/A N/A N/A N/A N/A N/A N/A		-	10223 21186 18201 48204 39446 39519 84574 39520	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (PHP) Backported Security Patch Detection (SSH)
INFO INFO INFO INFO INFO INFO INFO INFO	N/A N/A N/A N/A N/A N/A N/A N/A N/A			10223 21180 18201 48204 39440 39519 84574 39520 39521	RPC portmapper Service Detection AJP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW)
INFO INFO INFO INFO INFO INFO INFO INFO	N/A			10223 21186 18201 48204 39446 39519 84574 39520 39521 45590	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (PHP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE)
INFO INFO INFO INFO INFO INFO INFO INFO	N/A			10223 21186 18201 48204 39446 39519 84574 39520 39521 45590 10028	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection
INFO INFO INFO INFO INFO INFO INFO INFO	N/A			10223 21180 18201 48204 39440 39519 84574 39520 39521 45590 10028	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (PHP) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection
INFO INFO INFO INFO INFO INFO INFO INFO	N/A			10223 21180 18201 48204 39440 39519 84574 39520 39521 45590 10028 11002	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (FHP) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Detection
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39440 39519 84574 39520 39521 10028 11002 72779 35371	RPC portmapper Service Detection AJP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (PHP) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Detection DNS Server Hostname.bind Map Hostname Disclosure
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39440 39519 84574 39520 39521 10028 11002 72779 35371 54615	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Version Detection DNS Server Postname.bind Map Hostname Disclosure Device Type
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39519 84574 39520 39521 10028 11002 72779 35371 54615 35710	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Version Detection DNS Server hostname.bind Map Hostname Disclosure Device Type Ethernet Card Manufacturer Detection
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39440 39519 84574 43590 10028 11002 72779 35371 34015 35716 86420	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (FHP) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Detection DNS Server Detection DNS Server Hostname.bind Map Hostname Disclosure Device Type Ethernet Card Manufacturer Detection Ethernet MAC Addresses
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39440 39519 84574 39520 39521 10028 11002 72779 35371 54613 35716 86420 10092	RPC portmapper Service Detection AJP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (FHP) Backported Security Patch Detection (SH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Detection DNS Server hostname.bind Map Hostname Disclosure Device Type Ethernet Card Manufacturer Detection Ethernet MAC Addresses FTP Server Detection
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39440 39519 84574 39520 39521 10028 11002 72779 35371 34015 35716 86420 10092 10107	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BIND version Directive Remote Version Detection DNS Server Detection DNS Server Detection DNS Server hostname.bind Map Hostname Disclosure Device Type Ethernet Card Manufacturer Detection Ethernet MAC Addresses FTP Server Detection HTTP Server Type and Version
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39519 84574 39520 39521 10028 11002 72779 35371 35710 86420 10092 10107 24200	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (PHP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BiND version Directive Remote Version Detection DNS Server Version Detection DNS Server hostname.bind Map Hostname Disclosure Device Type Ethernet Card Manufacturer Detection Ethernet MAC Addresses FTP Server Detection HTTP Server Type and Version HyperText Transfer Protocol (HTTP) Information
INFO INFO INFO INFO INFO INFO INFO INFO	NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A			10223 21180 18201 48204 39519 84574 39520 39521 40590 10028 11002 72779 35371 36420 10092 10107 24200	RPC portmapper Service Detection AjP Connector Detection Apache Banner Linux Distribution Disclosure Apache HTTP Server Version Apache Tomcat Detection Backported Security Patch Detection (FTP) Backported Security Patch Detection (FHP) Backported Security Patch Detection (SSH) Backported Security Patch Detection (WWW) Common Platform Enumeration (CPE) DNS Server BiND version Directive Remote Version Detection DNS Server Detection DNS Server Nestname.blind Map Hostname Disclosure Device Type Ethernet Card Manufacturer Detection Ethernet MAC Addresses FTP Server Detection HTTP Server Type and Version HyperText Transfer Protocol (HTTP) Information IRC Daemon Version Detection

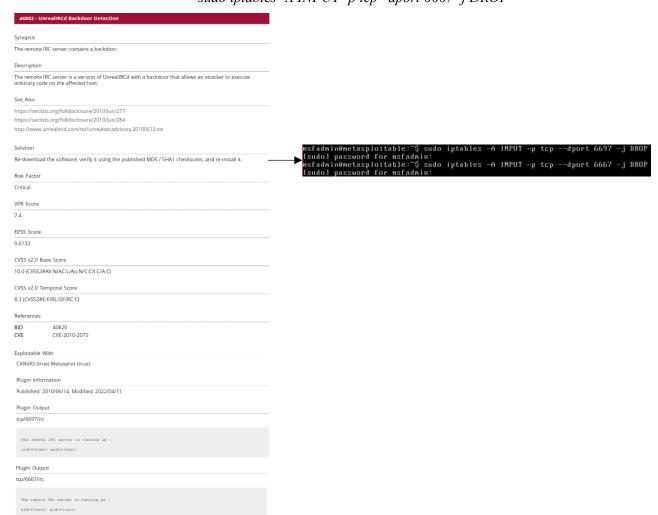
INFO	N/A	-	-	100871	Microsoft Windows SMB Versions Supported (remote chec
INFO	N/A	-	-	100716	Microsoft Windows SMB2 and SMB3 Dialects Supported (recheck)
INFO	N/A	-	-	10719	MySQL Server Detection
INFO	N/A	-	-	10437	NFS Share Export List
INFO	N/A	-	-	11219	Nessus SYN scanner
INFO	N/A			19506	Nessus Scan Information
INFO	N/A				OS Fingerprints Detected
INFO	N/A			11936	OS Identification
INFO	N/A	-			
			-		OS Security Patch Assessment Not Available
INFO	N/A				OpenSSH Detection
INFO	N/A	-	-	50845	OpenSSL Detection
INFO	N/A	-	-	48243	PHP Version Detection
INFO	N/A	-	-	66334	Patch Report
INFO	N/A	-	-	118224	PostgreSQL STARTTLS Support
INFO	N/A	-	-	26024	PostgreSQL Server Detection
INFO	N/A	-	-	22227	RMI Registry Detection
INFO	N/A	-	-	11111	RPC Services Enumeration
INFO	N/A	-	-	53335	RPC portmapper (TCP)
INFO	N/A	-	-	10263	SMTP Server Detection
INFO	N/A		-	42088	SMTP Service STARTTLS Command Support
INFO	N/A		-	70657	SSH Algorithms and Languages Supported
INFO	N/A		-	149334	SSH Password Authentication Accepted
INFO	N/A	-	-	10881	SSH Protocol Versions Supported
INFO	N/A	-	-	153588	SSH SHA-1 HMAC Algorithms Enabled
INFO	N/A	-	-	10267	SSH Server Type and Version Information
INFO	N/A		-	56984	SSL / TLS Versions Supported
INFO	N/A		-	45410	SSL Certificate 'commonName' Mismatch
INFO	N/A		-	10863	SSL Certificate Information
INFO	N/A	-	-	70544	SSL Cipher Block Chaining Cipher Suites Supported
INFO	N/A		-	21643	SSL Cipher Suites Supported
INFO	N/A		-	62563	SSL Compression Methods Supported
INFO	N/A		-	57041	SSL Perfect Forward Secrecy Cipher Suites Supported
INFO	N/A		-	51891	SSL Session Resume Supported
INFO	N/A		-	150899	SSL/TLS Recommended Cipher Suites
INFO	N/A		-	25240	Samba Server Detection
INFO	N/A		-	104887	Samba Version
INFO	N/A			96982	Server Message Block (SMB) Protocol Version 1 Enabled
					(uncredentialed check)
INFO	N/A	-	-	22964	Service Detection
INFO	N/A	-	-	17975	Service Detection (GET request)
INFO	N/A	-	-	11153	Service Detection (HELP Request)
INFO	N/A	-	-	25220	TCP/IP Timestamps Supported
INFO	N/A	-	-	11819	TFTP Daemon Detection
INFO	N/A	-	-	110723	Target Credential Status by Authentication Protocol - No Credentials Provided
INFO	N/A	-	-	10281	Telnet Server Detection
INFO	N/A		-	10287	Traceroute Information
INFO	N/A	-	-	11154	Unknown Service Detection: Banner Retrieval
INFO	N/A	-	-	19288	VNC Server Security Type Detection
INFO	N/A	-	-	65792	VNC Server Unencrypted Communication Detection
INFO	N/A	-	-	10342	VNC Software Detection
INFO	N/A	-	-	135860 WM	VII Not Available
INFO	N/A	-	-	20108 We	b Server / Application favicon.ico Vendor Fingerprinting
INFO	N/A	-	-	11422 We	eb Server Unconfigured - Default Install Page Present
INFO	N/A	-	-	11424 We	bDAV Detection
INFO	N/A		-		ndows NetBIOS / SMB Remote Host Information Disclosur
INFO	N/A	-	-	52703 vsf	tpd Detection

2. REMEDIATION META

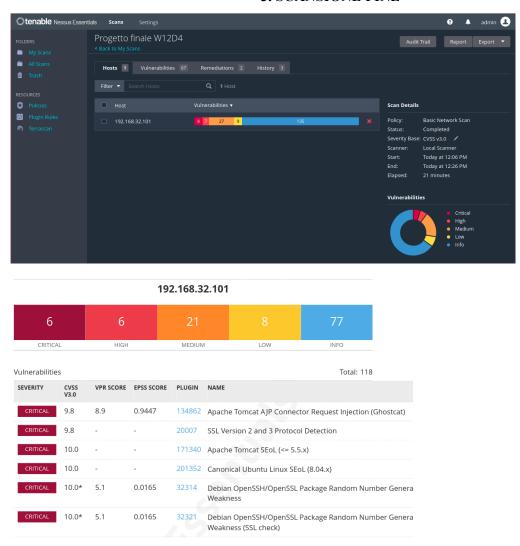
1. Il server VNC è protetto da una password debole, bisogna cambiarla con una più complessa tramite il comando *vncpasswd*



2. Il server IRC remoto contiene una backdoor che consente ad un aggressore di eseguire codice arbitrario, bisogna chiudere le porte interessate attraverso il comando sudo iptables -A INPUT -p tcp -dport 6697 -j DROP sudo iptables -A INPUT -p tcp -dport 6667 -j DROP



3. SCANSIONE FINE



CONCLUSIONE:

La scansione finale dimostra la rimozione di 2 vulnerabilità, rimanendone 6 critiche e tutte le altre non.