

MID
ASSIGNMENT

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20-43426-1

1. ko32314 - Debian OpenSSH/OpenSSL Package Random Number Generator

Weakness:

References: CVE-2008-0166

Service that is vulnerable:

In the SSH protocol, a cryptographic key called a host key is utilized to authenticate machines. Key pairs that are used with the RSA, DSA, or ECDSA algorithms are called host keys. Private keys are kept on SSH servers, whereas public host keys are kept on and/or sent to SSH clients. Recreate the private key if the host key is too tiny and an attacker might factor the number.

Exploit that might be vulnerable:

The random number generator of the OpenSSL library on a Debian or Ubuntu system has a problem that has caused the remote SSH host key to be generated. The issue arises from a Debian packager that eliminated almost all entropy sources from the OpenSSL remote version. The private portion of the remote key is readily obtained by an attacker, who can then utilize it to establish a man-in-the-middle assault or decrypt the remote session.

Mitigation required:

A straightforward method for server and client authentication is the use of SSH host keys. On the other hand, difficulties frequently accompany easy fixes. The necessity to change SSH host keys on a frequent basis is a common issue. All cryptographic content created on the remote host should be regarded as guessable. Specifically, all OpenVPN, SSL, and SSH key material needs to be produced again.



Vulnerabilities by Host

192.168.60.5



Vulnerabilities

Total: 76

SEVERITY	CVSS V3.0	VPR SCORE	PLUGIN	NAME
CRITICAL	9.8	-	20007	SSL Version 2 and 3 Protocol Detection
CRITICAL	10.0*	7.4	32314	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness
CRITICAL	10.0*	5.9	11356	NFS Exported Share Information Disclosure
HIGH	7.5	-	42256	NFS Shares World Readable
HIGH	7.5	6.1	42873	SSL Medium Strength Cipher Suites Supported (SWEET32)
HIGH	7.5	6.7	90509	Samba Badlock Vulnerability
HIGH	7.5*	5.9	10205	rlogin Service Detection
HIGH	7.5*	5.9	10245	rsh Service Detection
MEDIUM	5.9	3.6	31705	SSL Anonymous Cipher Suites Supported
MEDIUM	5.9	4.4	89058	SSL DROWN Attack Vulnerability (Decrypting RSA with Obsolete and Weakened eNcryption)
MEDIUM	5.9	4.4	65821	SSL RC4 Cipher Suites Supported (Bar Mitzvah)
MEDIUM	5.3	-	57608	SMB Signing not required
MEDIUM	5.3	-	26928	SSL Weak Cipher Suites Supported
MEDIUM	4.0*	6.3	52611	SMTP Service STARTTLS Plaintext Command Injection
MEDIUM	4.3*	-	90317	SSH Weak Algorithms Supported
MEDIUM	4.3*	4.5	81606	SSL/TLS EXPORT_RSA <= 512-bit Cipher Suites Supported (FREAK)
LOW	3.7	1.4	70658	SSH Server CBC Mode Ciphers Enabled
LOW	3.7	-	153953	SSH Weak Key Exchange Algorithms Enabled

LOW	3.7	4.5	83875	SSL/TLS Diffie-Hellman Modulus <= 1024 Bits (Logjam)
LOW	3.7	4.5	83738	SSL/TLS EXPORT_DHE <= 512-bit Export Cipher Suites Supported (Logjam)
LOW	2.6*	-	71049	SSH Weak MAC Algorithms Enabled
LOW	2.6*	-	10407	X Server Detection
INFO	N/A	-	10114	ICMP Timestamp Request Remote Date Disclosure
INFO	N/A	-	10223	RPC portmapper Service Detection
INFO	N/A	-	18261	Apache Banner Linux Distribution Disclosure
INFO	N/A	-	48204	Apache HTTP Server Version
INFO	N/A	-	39519	Backported Security Patch Detection (FTP)
INFO	N/A	-	39520	Backported Security Patch Detection (SSH)
INFO	N/A	-	39521	Backported Security Patch Detection (WWW)
INFO	N/A	-	45590	Common Platform Enumeration (CPE)
INFO	N/A	-	54615	Device Type
INFO	N/A	-	10092	FTP Server Detection
INFO	N/A	-	10107	HTTP Server Type and Version
INFO	N/A	-	24260	HyperText Transfer Protocol (HTTP) Information
INFO	N/A	-	11156	IRC Daemon Version Detection
INFO	N/A	-	10397	Microsoft Windows SMB LanMan Pipe Server Listing Disclosure
INFO	N/A	-	10785	Microsoft Windows SMB NativeLanManager Remote System Information Disclosure
INFO	N/A	-	11011	Microsoft Windows SMB Service Detection
INFO	N/A	-	100871	Microsoft Windows SMB Versions Supported (remote check)
INFO	N/A	-	106716	Microsoft Windows SMB2 and SMB3 Dialects Supported (remote check)
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	-	11936	OS Identification
INFO	N/A	-	117886	OS Security Patch Assessment Not Available
INFO	N/A	-	181418	OpenSSH Detection
INFO	N/A	-	50845	OpenSSL Detection
INFO	N/A	-	48243	PHP Version Detection
INFO	N/A	-	66334	Patch Report
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	-	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	-	156899	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	-	110723	Target Credential Status by Authentication Protocol - No Credentials Provided
INFO	N/A	-	10150	Windows NetBIOS / SMB Remote Host Information Disclosure

* indicates the v3.0 score was not available; the v2.0 score is shown



Vulnerabilities by Host

192.168.60.5

3

CRITICAL

5

HIGH

8

MEDIUM

6

LOW

104

INFO

Scan Information

Start time: Sun Nov 12 11:45:12 2023

End time: Sun Nov 12 11:54:41 2023

Host Information

Netbios Name: METASPLOITABLE

IP: 192.168.60.5

OS: Linux Kernel 2.6 on Ubuntu 8.04 (hardy)

Vulnerabilities

32314 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness

Synopsis

The remote SSH host keys are weak.

Description

The remote SSH host key has been generated on a Debian or Ubuntu system which contains a bug in the random number generator of its OpenSSL library.

The problem is due to a Debian packager removing nearly all sources of entropy in the remote version of OpenSSL.

An attacker can easily obtain the private part of the remote key and use this to set up decipher the remote session or set up a man in the middle attack.

See Also

<http://www.nessus.org/u?107f9bdc>

<http://www.nessus.org/u?f14f4224>

Solution

Consider all cryptographic material generated on the remote host to be guessable. In particular, all SSH, SSL and OpenVPN key material should be re-generated.

Risk Factor

Critical

VPR Score

7.4

CVSS v2.0 Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

CVSS v2.0 Temporal Score

8.3 (CVSS2#E:F/RL:OF/RC:C)

References

BID	29179
CVE	CVE-2008-0166
XREF	CWE:310

Exploitable With

Core Impact (true)

Plugin Information

Published: 2008/05/14, Modified: 2018/11/15

Plugin Output

tcp/22/ssh

11356 - NFS Exported Share Information Disclosure

Synopsis

It is possible to access NFS shares on the remote host.

Description

At least one of the NFS shares exported by the remote server could be mounted by the scanning host. An attacker may be able to leverage this to read (and possibly write) files on remote host.

Solution

Configure NFS on the remote host so that only authorized hosts can mount its remote shares.

Risk Factor

Critical

VPR Score

5.9

CVSS v2.0 Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

References

CVE	CVE-1999-0170
CVE	CVE-1999-0211
CVE	CVE-1999-0554

Exploitable With

Metasploit (true)

Plugin Information

Published: 2003/03/12, Modified: 2023/08/30

Plugin Output

udp/2049/rpc-nfs

The following NFS shares could be mounted :

+ /

+ Contents of / :

- .
- ..
- bin
- boot
- cdrom
- dev
- etc
- home
- initrd
- initrd.img
- lib
- lost+found
- media
- mnt
- nohup.out
- opt
- proc
- root
- sbin
- srv
- sys
- tmp
- usr
- var
- vmlinuz

Synopsis

The remote service encrypts traffic using a protocol with known weaknesses.

Description

The remote service accepts connections encrypted using SSL 2.0 and/or SSL 3.0. These versions of SSL are affected by several cryptographic flaws, including:

- An insecure padding scheme with CBC ciphers.
- Insecure session renegotiation and resumption schemes.

An attacker can exploit these flaws to conduct man-in-the-middle attacks or to decrypt communications between the affected service and clients.

Although SSL/TLS has a secure means for choosing the highest supported version of the protocol (so that these versions will be used only if the client or server support nothing better), many web browsers implement this in an unsafe way that allows an attacker to downgrade a connection (such as in POODLE). Therefore, it is recommended that these protocols be disabled entirely.

NIST has determined that SSL 3.0 is no longer acceptable for secure communications. As of the date of enforcement found in PCI DSS v3.1, any version of SSL will not meet the PCI SSC's definition of 'strong cryptography'.

See Also

<https://www.schneier.com/academic/paperfiles/paper-ssl.pdf>

<http://www.nessus.org/u?b06c7e95>

<http://www.nessus.org/u?247c4540>

<https://www.openssl.org/~bodo/ssl-poodle.pdf>

<http://www.nessus.org/u?5d15ba70>

<https://www.imperialviolet.org/2014/10/14/poodle.html>

<https://tools.ietf.org/html/rfc7507>

<https://tools.ietf.org/html/rfc7568>

Solution

Consult the application's documentation to disable SSL 2.0 and 3.0.

Use TLS 1.2 (with approved cipher suites) or higher instead.

Risk Factor

Critical

CVSS v3.0 Base Score

9.8 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)

CVSS v2.0 Base Score

10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)

Plugin Information

Published: 2005/10/12, Modified: 2022/04/04

Plugin Output

tcp/25/smtp

- SSLv2 is enabled and the server supports at least one cipher.

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC2-CBC-MD5 export		RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export		RSA (512)	RSA	RC4 (40)	MD5

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
DES-CBC3-MD5		RSA	RSA	3DES-CBC (168)	MD5

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
RC4-MD5		RSA	RSA	RC4 (128)	MD5

The fields above are :

{Tenable ciphertype}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}

- SSLv3 is enabled and the server supports at least one cipher.

Explanation: TLS 1.0 and SSL 3.0 cipher suites may be used with SSLv3

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-EDH-RSA-DES-CBC-SHA SHA1 export		DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA [...]		DH	RSA	DES-CBC (56)	SHA

Synopsis

The remote NFS server exports world-readable shares.

Description

The remote NFS server is exporting one or more shares without restricting access (based on hostname, IP, or IP range).

See Also

<http://www.tldp.org/HOWTO/NFS-HOWTO/security.html>

Solution

Place the appropriate restrictions on all NFS shares.

Risk Factor

Medium

CVSS v3.0 Base Score

7.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N)

CVSS v2.0 Base Score

5.0 (CVSS2#AV:N/AC:L/Au:N/C:P/I:N/A:N)

Plugin Information

Published: 2009/10/26, Modified: 2020/05/05

Plugin Output

tcp/2049/rpc-nfs

```
The following shares have no access restrictions :  
/  
*
```

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

Synopsis

The remote service supports the use of medium strength SSL ciphers.

Description

The remote host supports the use of SSL ciphers that offer medium strength encryption. Nessus regards medium strength as any encryption that uses key lengths at least 64 bits and less than 112 bits, or else that uses the 3DES encryption suite.

Note that it is considerably easier to circumvent medium strength encryption if the attacker is on the same physical network.

See Also

<https://www.openssl.org/blog/blog/2016/08/24/sweet32/>

<https://sweet32.info>

Solution

Reconfigure the affected application if possible to avoid use of medium strength ciphers.

Risk Factor

Medium

CVSS v3.0 Base Score

7.5 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N)

VPR Score

6.1

CVSS v2.0 Base Score

5.0 (CVSS2#AV:N/AC:L/Au:N/C:P/I:N/A:N)

References

CVE CVE-2016-2183

Plugin Information

Published: 2009/11/23, Modified: 2021/02/03

Plugin Output

tcp/25/smtp

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
DES-CBC3-MD5	0x07, 0x00, 0xC0	RSA	RSA	3DES-CBC (168)	MD5
EDH-RSA-DES-CBC3-SHA	0x00, 0x16	DH	RSA	3DES-CBC (168)	
SHA1					
ADH-DES-CBC3-SHA	0x00, 0x1B	DH	None	3DES-CBC (168)	
SHA1					
DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	
SHA1					

The fields above are :

{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}

90509 - Samba Badlock Vulnerability

Synopsis

An SMB server running on the remote host is affected by the Badlock vulnerability.

Description

The version of Samba, a CIFS/SMB server for Linux and Unix, running on the remote host is affected by a flaw, known as Badlock, that exists in the Security Account Manager (SAM) and Local Security Authority (Domain Policy) (LSAD) protocols due to improper authentication level negotiation over Remote Procedure Call (RPC) channels. A man-in-the-middle attacker who is able to intercept the traffic between a client and a server hosting a SAM database can exploit this flaw to force a downgrade of the authentication level, which allows the execution of arbitrary Samba network calls in the context of the intercepted user, such as viewing or modifying sensitive security data in the Active Directory (AD) database or disabling critical services.

See Also

<http://badlock.org>

<https://www.samba.org/samba/security/CVE-2016-2118.html>

Solution

Upgrade to Samba version 4.2.11 / 4.3.8 / 4.4.2 or later.

Risk Factor

Medium

CVSS v3.0 Base Score

7.5 (CVSS:3.0/AV:N/AC:H/PR:N/UI:R/S:U/C:H/I:H/A:H)

CVSS v3.0 Temporal Score

6.5 (CVSS:3.0/E:U/RL:O/RC:C)

VPR Score

6.7

CVSS v2.0 Base Score

6.8 (CVSS2#AV:N/AC:M/Au:N/C:P/I:P/A:P)

CVSS v2.0 Temporal Score

5.0 (CVSS2#E:U/RL:OF/RC:C)

References

BID	86002
CVE	CVE-2016-2118
XREF	CERT:813296

Plugin Information

Published: 2016/04/13, Modified: 2019/11/20

Plugin Output

tcp/445/cifs

```
Nessus detected that the Samba Badlock patch has not been applied.
```

10205 - rlogin Service Detection

Synopsis

The rlogin service is running on the remote host.

Description

The rlogin service is running on the remote host. This service is vulnerable since data is passed between the rlogin client and server in cleartext. A man-in-the-middle attacker can exploit this to sniff logins and passwords. Also, it may allow poorly authenticated logins without passwords. If the host is vulnerable to TCP sequence number guessing (from any network) or IP spoofing (including ARP hijacking on a local network) then it may be possible to bypass authentication.

Finally, rlogin is an easy way to turn file-write access into full logins through the .rhosts or rhosts.equiv files.

Solution

Comment out the 'login' line in /etc/inetd.conf and restart the inetd process. Alternatively, disable this service and use SSH instead.

Risk Factor

High

VPR Score

5.9

CVSS v2.0 Base Score

7.5 (CVSS2#AV:N/AC:L/Au:N/C:P/I:P/A:P)

References

CVE CVE-1999-0651

Exploitable With

Metasploit (true)

Plugin Information

Published: 1999/08/30, Modified: 2022/04/11

Plugin Output

tcp/513/rlogin

Synopsis

The rsh service is running on the remote host.

Description

The rsh service is running on the remote host. This service is vulnerable since data is passed between the rsh client and server in cleartext. A man-in-the-middle attacker can exploit this to sniff logins and passwords. Also, it may allow poorly authenticated logins without passwords. If the host is vulnerable to TCP sequence number guessing (from any network) or IP spoofing (including ARP hijacking on a local network) then it may be possible to bypass authentication.

Finally, rsh is an easy way to turn file-write access into full logins through the .rhosts or rhosts.equiv files.

Solution

Comment out the 'rsh' line in /etc/inetd.conf and restart the inetd process. Alternatively, disable this service and use SSH instead.

Risk Factor

High

VPR Score

5.9

CVSS v2.0 Base Score

7.5 (CVSS2#AV:N/AC:L/Au:N/C:P/I:P/A:P)

References

CVE CVE-1999-0651

Exploitable With

Metasploit (true)

Plugin Information

Published: 1999/08/22, Modified: 2022/04/11

Plugin Output

tcp/514/rsh

Synopsis

Signing is not required on the remote SMB server.

Description

Signing is not required on the remote SMB server. An unauthenticated, remote attacker can exploit this to conduct man-in-the-middle attacks against the SMB server.

See Also

<http://www.nessus.org/u?df39b8b3>

<http://technet.microsoft.com/en-us/library/cc731957.aspx>

<http://www.nessus.org/u?74b80723>

<https://www.samba.org/samba/docs/current/man-html/smb.conf.5.html>

<http://www.nessus.org/u?a3cac4ea>

Solution

Enforce message signing in the host's configuration. On Windows, this is found in the policy setting 'Microsoft network server: Digitally sign communications (always)'. On Samba, the setting is called 'server signing'. See the 'see also' links for further details.

Risk Factor

Medium

CVSS v3.0 Base Score

5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:L/A:N)

CVSS v3.0 Temporal Score

4.6 (CVSS:3.0/E:U/RL:O/RC:C)

CVSS v2.0 Base Score

5.0 (CVSS2#AV:N/AC:L/Au:N/C:N/I:P/A:N)

CVSS v2.0 Temporal Score

3.7 (CVSS2#E:U/RL:OF/RC:C)

Plugin Information

Published: 2012/01/19, Modified: 2022/10/05

Plugin Output

tcp/445/cifs

52611 - SMTP Service STARTTLS Plaintext Command Injection

Synopsis

The remote mail service allows plaintext command injection while negotiating an encrypted communications channel.

Description

The remote SMTP service contains a software flaw in its STARTTLS implementation that could allow a remote, unauthenticated attacker to inject commands during the plaintext protocol phase that will be executed during the ciphertext protocol phase.

Successful exploitation could allow an attacker to steal a victim's email or associated SASL (Simple Authentication and Security Layer) credentials.

See Also

<https://tools.ietf.org/html/rfc2487>

<https://www.securityfocus.com/archive/1/516901/30/0/threaded>

Solution

Contact the vendor to see if an update is available.

Risk Factor

Medium

VPR Score

6.3

CVSS v2.0 Base Score

4.0 (CVSS2#AV:N/AC:H/Au:N/C:P/I:P/A:N)

CVSS v2.0 Temporal Score

3.1 (CVSS2#E:POC/RL:OF/RC:C)

References

BID	46767
CVE	CVE-2011-0411
CVE	CVE-2011-1430
CVE	CVE-2011-1431
CVE	CVE-2011-1432

CVE	CVE-2011-1506
CVE	CVE-2011-2165
XREF	CERT:555316

Plugin Information

Published: 2011/03/10, Modified: 2019/03/06

Plugin Output

tcp/25/smtp

```
Nessus sent the following two commands in a single packet :
```

```
STARTTLS\r\nRSET\r\n
```

```
And the server sent the following two responses :
```

```
220 2.0.0 Ready to start TLS
250 2.0.0 Ok
```

Synopsis

The remote SSH server is configured to allow weak encryption algorithms or no algorithm at all.

Description

Nessus has detected that the remote SSH server is configured to use the Arcfour stream cipher or no cipher at all. RFC 4253 advises against using Arcfour due to an issue with weak keys.

See Also

<https://tools.ietf.org/html/rfc4253#section-6.3>

Solution

Contact the vendor or consult product documentation to remove the weak ciphers.

Risk Factor

Medium

CVSS v2.0 Base Score

4.3 (CVSS2#AV:N/AC:M/Au:N/C:P/I:N/A:N)

Plugin Information

Published: 2016/04/04, Modified: 2016/12/14

Plugin Output

tcp/22/ssh

```
The following weak server-to-client encryption algorithms are supported :
```

```
arcfour
arcfour128
arcfour256
```

```
The following weak client-to-server encryption algorithms are supported :
```

```
arcfour
arcfour128
arcfour256
```

31705 - SSL Anonymous Cipher Suites Supported

Synopsis

The remote service supports the use of anonymous SSL ciphers.

Description

The remote host supports the use of anonymous SSL ciphers. While this enables an administrator to set up a service that encrypts traffic without having to generate and configure SSL certificates, it offers no way to verify the remote host's identity and renders the service vulnerable to a man-in-the-middle attack.

Note: This is considerably easier to exploit if the attacker is on the same physical network.

See Also

<http://www.nessus.org/u?3a040ada>

Solution

Reconfigure the affected application if possible to avoid use of weak ciphers.

Risk Factor

Low

CVSS v3.0 Base Score

5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)

CVSS v3.0 Temporal Score

5.2 (CVSS:3.0/E:U/RL:O/RC:C)

VPR Score

3.6

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)

CVSS v2.0 Temporal Score

1.9 (CVSS2#E:U/RL:OF/RC:C)

References

BID 28482

Plugin Information

Published: 2008/03/28, Modified: 2023/10/27

Plugin Output

tcp/25/smtp

The following is a list of SSL anonymous ciphers supported by the remote TCP server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH (512)	None	DES-CBC (40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
ADH-DES-CBC3-SHA SHA1	0x00, 0x1B	DH	None	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
ADH-AES128-SHA SHA1	0x00, 0x34	DH	None	AES-CBC (128)	
ADH-AES256-SHA SHA1	0x00, 0x3A	DH	None	AES-CBC (256)	
ADH-RC4-MD5	0x00, 0x18	DH	None	RC4 (128)	MD5

The fields above are :

```
{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```

89058 - SSL DROWN Attack Vulnerability (Decrypting RSA with Obsolete and Weakened eNcryption)

Synopsis

The remote host may be affected by a vulnerability that allows a remote attacker to potentially decrypt captured TLS traffic.

Description

The remote host supports SSLv2 and therefore may be affected by a vulnerability that allows a cross-protocol Bleichenbacher padding oracle attack known as DROWN (Decrypting RSA with Obsolete and Weakened eNcryption). This vulnerability exists due to a flaw in the Secure Sockets Layer Version 2 (SSLv2) implementation, and it allows captured TLS traffic to be decrypted. A man-in-the-middle attacker can exploit this to decrypt the TLS connection by utilizing previously captured traffic and weak cryptography along with a series of specially crafted connections to an SSLv2 server that uses the same private key.

See Also

<https://drownattack.com/>

<https://drownattack.com/drown-attack-paper.pdf>

Solution

Disable SSLv2 and export grade cryptography cipher suites. Ensure that private keys are not used anywhere with server software that supports SSLv2 connections.

Risk Factor

Medium

CVSS v3.0 Base Score

5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)

CVSS v3.0 Temporal Score

5.2 (CVSS:3.0/E:U/RL:O/RC:C)

VPR Score

4.4

CVSS v2.0 Base Score

4.3 (CVSS2#AV:N/AC:M/Au:N/C:P/I:N/A:N)

CVSS v2.0 Temporal Score

3.2 (CVSS2#E:U/RL:OF/RC:C)

References

BID 83733
CVE CVE-2016-0800
XREF CERT:583776

Plugin Information

Published: 2016/03/01, Modified: 2019/11/20

Plugin Output

tcp/25/smtp

The remote host is affected by SSL DROWN and supports the following vulnerable cipher suites :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA (512)	RSA	RC4 (40)	MD5

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
RC4-MD5	0x01, 0x00, 0x80	RSA	RSA	RC4 (128)	MD5

The fields above are :

{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}

Synopsis

The remote service supports the use of the RC4 cipher.

Description

The remote host supports the use of RC4 in one or more cipher suites.

The RC4 cipher is flawed in its generation of a pseudo-random stream of bytes so that a wide variety of small biases are introduced into the stream, decreasing its randomness.

If plaintext is repeatedly encrypted (e.g., HTTP cookies), and an attacker is able to obtain many (i.e., tens of millions) ciphertexts, the attacker may be able to derive the plaintext.

See Also

<https://www.rc4nomore.com/>

<http://www.nessus.org/u?ac7327a0>

<http://cr.yp.to/talks/2013.03.12/slides.pdf>

<http://www.isg.rhul.ac.uk/tls/>

https://www.imperva.com/docs/HII_Attacking_SSL_when_using_RC4.pdf

Solution

Reconfigure the affected application, if possible, to avoid use of RC4 ciphers. Consider using TLS 1.2 with AES-GCM suites subject to browser and web server support.

Risk Factor

Medium

CVSS v3.0 Base Score

5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)

CVSS v3.0 Temporal Score

5.4 (CVSS:3.0/E:U/RL:X/RC:C)

VPR Score

4.4

CVSS v2.0 Base Score

4.3 (CVSS2#AV:N/AC:M/Au:N/C:P/I:N/A:N)

CVSS v2.0 Temporal Score

3.7 (CVSS2#E:U/RL:ND/RC:C)

References

BID 58796
BID 73684
CVE CVE-2013-2566
CVE CVE-2015-2808

Plugin Information

Published: 2013/04/05, Modified: 2021/02/03

Plugin Output

tcp/25/smtp

List of RC4 cipher suites supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA (512)	RSA	RC4 (40)	MD5
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
RC4-MD5	0x01, 0x00, 0x80	RSA	RSA	RC4 (128)	MD5
ADH-RC4-MD5	0x00, 0x18	DH	None	RC4 (128)	MD5
RC4-MD5	0x00, 0x04	RSA	RSA	RC4 (128)	MD5
RC4-SHA	0x00, 0x05	RSA	RSA	RC4 (128)	

SHA1

The fields above are :

{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}

26928 - SSL Weak Cipher Suites Supported

Synopsis

The remote service supports the use of weak SSL ciphers.

Description

The remote host supports the use of SSL ciphers that offer weak encryption.

Note: This is considerably easier to exploit if the attacker is on the same physical network.

See Also

<http://www.nessus.org/u?6527892d>

Solution

Reconfigure the affected application, if possible to avoid the use of weak ciphers.

Risk Factor

Medium

CVSS v3.0 Base Score

5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N)

CVSS v2.0 Base Score

4.3 (CVSS2#AV:N/AC:M/Au:N/C:P/I:N/A:N)

References

XREF	CWE:326
XREF	CWE:327
XREF	CWE:720
XREF	CWE:753
XREF	CWE:803
XREF	CWE:928
XREF	CWE:934

Plugin Information

Published: 2007/10/08, Modified: 2021/02/03

Plugin Output

Here is the list of weak SSL ciphers supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA (512)	RSA	RC4 (40)	MD5
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH (512)	None	DES-CBC (40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC (56)	

The fields above are :

```
{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```

81606 - SSL/TLS EXPORT_RSA <= 512-bit Cipher Suites Supported (FREAK)

Synopsis

The remote host supports a set of weak ciphers.

Description

The remote host supports EXPORT_RSA cipher suites with keys less than or equal to 512 bits. An attacker can factor a 512-bit RSA modulus in a short amount of time.

A man-in-the middle attacker may be able to downgrade the session to use EXPORT_RSA cipher suites (e.g. CVE-2015-0204). Thus, it is recommended to remove support for weak cipher suites.

See Also

<https://www.smacktls.com/#freak>

<https://www.openssl.org/news/secadv/20150108.txt>

<http://www.nessus.org/u?b78da2c4>

Solution

Reconfigure the service to remove support for EXPORT_RSA cipher suites.

Risk Factor

Medium

VPR Score

4.5

CVSS v2.0 Base Score

4.3 (CVSS2#AV:N/AC:M/Au:N/C:N/I:P/A:N)

CVSS v2.0 Temporal Score

3.2 (CVSS2#E:U/RL:OF/RC:C)

References

BID	71936
CVE	CVE-2015-0204
XREF	CERT:243585

Plugin Information

Plugin Output

tcp/25/smtp

EXPORT_RSA cipher suites supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5

The fields above are :

{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}

70658 - SSH Server CBC Mode Ciphers Enabled

Synopsis

The SSH server is configured to use Cipher Block Chaining.

Description

The SSH server is configured to support Cipher Block Chaining (CBC) encryption. This may allow an attacker to recover the plaintext message from the ciphertext.

Note that this plugin only checks for the options of the SSH server and does not check for vulnerable software versions.

Solution

Contact the vendor or consult product documentation to disable CBC mode cipher encryption, and enable CTR or GCM cipher mode encryption.

Risk Factor

Low

CVSS v3.0 Base Score

3.7 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N)

VPR Score

1.4

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)

CVSS v2.0 Temporal Score

1.9 (CVSS2#E:U/RL:OF/RC:C)

References

BID	32319
CVE	CVE-2008-5161
XREF	CERT:958563
XREF	CWE:200

Plugin Information

Published: 2013/10/28, Modified: 2023/10/27

Plugin Output

tcp/22/ssh

The following client-to-server Cipher Block Chaining (CBC) algorithms are supported :

```
3des-cbc
aes128-cbc
aes192-cbc
aes256-cbc
blowfish-cbc
cast128-cbc
rijndael-cbc@lysator.liu.se
```

The following server-to-client Cipher Block Chaining (CBC) algorithms are supported :

```
3des-cbc
aes128-cbc
aes192-cbc
aes256-cbc
blowfish-cbc
cast128-cbc
rijndael-cbc@lysator.liu.se
```


153953 - SSH Weak Key Exchange Algorithms Enabled

Synopsis

The remote SSH server is configured to allow weak key exchange algorithms.

Description

The remote SSH server is configured to allow key exchange algorithms which are considered weak.

This is based on the IETF draft document Key Exchange (KEX) Method Updates and Recommendations for Secure Shell (SSH) draft-ietf-curdle-ssh-kex-sha2-20. Section 4 lists guidance on key exchange algorithms that SHOULD NOT and MUST NOT be enabled. This includes:

diffie-hellman-group-exchange-sha1

diffie-hellman-group1-sha1

gss-gex-sha1-*

gss-group1-sha1-*

gss-group14-sha1-*

rsa1024-sha1

Note that this plugin only checks for the options of the SSH server, and it does not check for vulnerable software versions.

See Also

<http://www.nessus.org/u?b02d91cd>

<https://datatracker.ietf.org/doc/html/rfc8732>

Solution

Contact the vendor or consult product documentation to disable the weak algorithms.

Risk Factor

Low

CVSS v3.0 Base Score

3.7 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:L/I:N/A:N)

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)

Plugin Information

Plugin Output

tcp/22/ssh

The following weak key exchange algorithms are enabled :

```
diffie-hellman-group-exchange-sha1
diffie-hellman-group1-sha1
```

71049 - SSH Weak MAC Algorithms Enabled

Synopsis

The remote SSH server is configured to allow MD5 and 96-bit MAC algorithms.

Description

The remote SSH server is configured to allow either MD5 or 96-bit MAC algorithms, both of which are considered weak.

Note that this plugin only checks for the options of the SSH server, and it does not check for vulnerable software versions.

Solution

Contact the vendor or consult product documentation to disable MD5 and 96-bit MAC algorithms.

Risk Factor

Low

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)

Plugin Information

Published: 2013/11/22, Modified: 2016/12/14

Plugin Output

tcp/22/ssh

```
The following client-to-server Message Authentication Code (MAC) algorithms
are supported :
```

```
hmac-md5
hmac-md5-96
hmac-sha1-96
```

```
The following server-to-client Message Authentication Code (MAC) algorithms
are supported :
```

```
hmac-md5
hmac-md5-96
hmac-sha1-96
```

83875 - SSL/TLS Diffie-Hellman Modulus <= 1024 Bits (Logjam)

Synopsis

The remote host allows SSL/TLS connections with one or more Diffie-Hellman moduli less than or equal to 1024 bits.

Description

The remote host allows SSL/TLS connections with one or more Diffie-Hellman moduli less than or equal to 1024 bits. Through cryptanalysis, a third party may be able to find the shared secret in a short amount of time (depending on modulus size and attacker resources). This may allow an attacker to recover the plaintext or potentially violate the integrity of connections.

See Also

<https://weakdh.org/>

Solution

Reconfigure the service to use a unique Diffie-Hellman moduli of 2048 bits or greater.

Risk Factor

Low

CVSS v3.0 Base Score

3.7 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:L/A:N)

CVSS v3.0 Temporal Score

3.2 (CVSS:3.0/E:U/RL:O/RC:C)

VPR Score

4.5

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:N/I:P/A:N)

CVSS v2.0 Temporal Score

1.9 (CVSS2#E:U/RL:OF/RC:C)

References

BID 74733

CVE CVE-2015-4000
XREF CEA-ID:CEA-2021-0004

Plugin Information

Published: 2015/05/28, Modified: 2022/12/05

Plugin Output

tcp/25/smtp

Vulnerable connection combinations :

SSL/TLS version : SSLv3
Cipher suite : TLS1 CK_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA
Diffie-Hellman MODP size (bits) : 512
Logjam attack difficulty : Easy (could be carried out by individuals)

SSL/TLS version : TLSv1.0
Cipher suite : TLS1 CK_DHE_RSA_EXPORT_WITH_DES40_CBC_SHA
Diffie-Hellman MODP size (bits) : 512
Logjam attack difficulty : Easy (could be carried out by individuals)

83738 - SSL/TLS EXPORT_DHE <= 512-bit Export Cipher Suites Supported (Logjam)

Synopsis

The remote host supports a set of weak ciphers.

Description

The remote host supports EXPORT_DHE cipher suites with keys less than or equal to 512 bits. Through cryptanalysis, a third party can find the shared secret in a short amount of time.

A man-in-the middle attacker may be able to downgrade the session to use EXPORT_DHE cipher suites. Thus, it is recommended to remove support for weak cipher suites.

See Also

<https://weakdh.org/>

Solution

Reconfigure the service to remove support for EXPORT_DHE cipher suites.

Risk Factor

Low

CVSS v3.0 Base Score

3.7 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:L/A:N)

CVSS v3.0 Temporal Score

3.2 (CVSS:3.0/E:U/RL:O/RC:C)

VPR Score

4.5

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:N/I:P/A:N)

CVSS v2.0 Temporal Score

2.2 (CVSS2#E:U/RL:ND/RC:C)

References

BID 74733

CVE CVE-2015-4000
XREF CEA-ID:CEA-2021-0004

Plugin Information

Published: 2015/05/21, Modified: 2022/12/05

Plugin Output

tcp/25/smtp

EXPORT_DHE cipher suites supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH (512)	None	DES-CBC (40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5

The fields above are :

{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}

10407 - X Server Detection

Synopsis

An X11 server is listening on the remote host

Description

The remote host is running an X11 server. X11 is a client-server protocol that can be used to display graphical applications running on a given host on a remote client.

Since the X11 traffic is not ciphered, it is possible for an attacker to eavesdrop on the connection.

Solution

Restrict access to this port. If the X11 client/server facility is not used, disable TCP support in X11 entirely (-nolisten tcp).

Risk Factor

Low

CVSS v2.0 Base Score

2.6 (CVSS2#AV:N/AC:H/Au:N/C:P/I:N/A:N)

Plugin Information

Published: 2000/05/12, Modified: 2019/03/05

Plugin Output

tcp/6000/x11

```
X11 Version : 11.0
```


Synopsis

The name of the Linux distribution running on the remote host was found in the banner of the web server.

Description

Nessus was able to extract the banner of the Apache web server and determine which Linux distribution the remote host is running.

Solution

If you do not wish to display this information, edit 'httpd.conf' and set the directive 'ServerTokens Prod' and restart Apache.

Risk Factor

None

Plugin Information

Published: 2005/05/15, Modified: 2022/03/21

Plugin Output

tcp/0

```
The Linux distribution detected was :  
- Ubuntu 8.04 (gutsy)
```

48204 - Apache HTTP Server Version

Synopsis

It is possible to obtain the version number of the remote Apache HTTP server.

Description

The remote host is running the Apache HTTP Server, an open source web server. It was possible to read the version number from the banner.

See Also

<https://httpd.apache.org/>

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0030

XREF IAVT:0001-T-0530

Plugin Information

Published: 2010/07/30, Modified: 2023/08/17

Plugin Output

tcp/80/www

```
URL      : http://192.168.60.5/
Version  : 2.2.99
Source   : Server: Apache/2.2.8 (Ubuntu) DAV/2
backported : 1
modules  : DAV/2
os       : ConvertedUbuntu
```

39519 - Backported Security Patch Detection (FTP)

Synopsis

Security patches are backported.

Description

Security patches may have been 'backported' to the remote FTP server without changing its version number.

Banner-based checks have been disabled to avoid false positives.

Note that this test is informational only and does not denote any security problem.

See Also

https://access.redhat.com/security/updates/backporting/?sc_cid=3093

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2009/06/25, Modified: 2015/07/07

Plugin Output

tcp/2121/ftp

```
Give Nessus credentials to perform local checks.
```

39520 - Backported Security Patch Detection (SSH)

Synopsis

Security patches are backported.

Description

Security patches may have been 'backported' to the remote SSH server without changing its version number.

Banner-based checks have been disabled to avoid false positives.

Note that this test is informational only and does not denote any security problem.

See Also

https://access.redhat.com/security/updates/backporting/?sc_cid=3093

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2009/06/25, Modified: 2015/07/07

Plugin Output

tcp/22/ssh

```
Give Nessus credentials to perform local checks.
```

39521 - Backported Security Patch Detection (WWW)

Synopsis

Security patches are backported.

Description

Security patches may have been 'backported' to the remote HTTP server without changing its version number.

Banner-based checks have been disabled to avoid false positives.

Note that this test is informational only and does not denote any security problem.

See Also

https://access.redhat.com/security/updates/backporting/?sc_cid=3093

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2009/06/25, Modified: 2015/07/07

Plugin Output

tcp/80/www

```
Give Nessus credentials to perform local checks.
```

Synopsis

It was possible to enumerate CPE names that matched on the remote system.

Description

By using information obtained from a Nessus scan, this plugin reports CPE (Common Platform Enumeration) matches for various hardware and software products found on a host.

Note that if an official CPE is not available for the product, this plugin computes the best possible CPE based on the information available from the scan.

See Also

<http://cpe.mitre.org/>

<https://nvd.nist.gov/products/cpe>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2010/04/21, Modified: 2023/10/16

Plugin Output

tcp/0

The remote operating system matched the following CPE :

cpe:/o:canonical:ubuntu_linux:8.04 -> Canonical Ubuntu Linux

Following application CPE's matched on the remote system :

cpe:/a:apache:http_server:2.2.8 -> Apache Software Foundation Apache HTTP Server
cpe:/a:apache:http_server:2.2.99 -> Apache Software Foundation Apache HTTP Server
cpe:/a:mysql:mysql:5.0.51a-3ubuntu5 -> MySQL MySQL
cpe:/a:openbsd:openssh:4.7 -> OpenBSD OpenSSH
cpe:/a:openbsd:openssh:4.7p1 -> OpenBSD OpenSSH
cpe:/a:php:php:5.2.4 -> PHP PHP
cpe:/a:postgresql:postgresql -> PostgreSQL
cpe:/a:samba:samba:3.0.20 -> Samba Samba

54615 - Device Type

Synopsis

It is possible to guess the remote device type.

Description

Based on the remote operating system, it is possible to determine what the remote system type is (eg: a printer, router, general-purpose computer, etc).

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2011/05/23, Modified: 2022/09/09

Plugin Output

tcp/0

```
Remote device type : general-purpose  
Confidence level : 95
```

10092 - FTP Server Detection

Synopsis

An FTP server is listening on a remote port.

Description

It is possible to obtain the banner of the remote FTP server by connecting to a remote port.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0030

XREF IAVT:0001-T-0943

Plugin Information

Published: 1999/10/12, Modified: 2023/08/17

Plugin Output

tcp/21/ftp

```
The remote FTP banner is :
```

```
220 (vsFTPd 2.3.4)
```


10092 - FTP Server Detection

Synopsis

An FTP server is listening on a remote port.

Description

It is possible to obtain the banner of the remote FTP server by connecting to a remote port.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0030

XREF IAVT:0001-T-0943

Plugin Information

Published: 1999/10/12, Modified: 2023/08/17

Plugin Output

tcp/2121/ftp

```
The remote FTP banner is :  
220 ProFTPD 1.3.1 Server (Debian) [::ffff:192.168.60.5]
```

10107 - HTTP Server Type and Version

Synopsis

A web server is running on the remote host.

Description

This plugin attempts to determine the type and the version of the remote web server.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0931

Plugin Information

Published: 2000/01/04, Modified: 2020/10/30

Plugin Output

tcp/80/www

```
The remote web server type is :  
Apache/2.2.8 (Ubuntu) DAV/2
```

24260 - HyperText Transfer Protocol (HTTP) Information

Synopsis

Some information about the remote HTTP configuration can be extracted.

Description

This test gives some information about the remote HTTP protocol - the version used, whether HTTP Keep-Alive and HTTP pipelining are enabled, etc...

This test is informational only and does not denote any security problem.

Solution

Risk Factor	Impact	Control Measure
1. Lack of industry connections	Reduced opportunities for partnerships and collaborations	Actively seek out and build relationships with industry leaders and potential partners
2. Limited marketing budget	Reduced visibility and awareness of the startup	Implement a targeted marketing strategy focusing on digital channels and social media
3. Limited product differentiation	Increased competition and lower profit margins	Conduct thorough market research to identify unique value propositions and differentiate the product
4. Limited customer base	Reduced revenue and potential for growth	Implement a customer acquisition strategy through targeted outreach and referrals
5. Limited financial resources	Reduced ability to invest in growth and innovation	Seek out external funding sources such as venture capitalists or angel investors

None

Plugin Information

Published: 2007/01/30, Modified: 2019/11/22

Plugin Output

tcp/80/www

Response Code : HTTP/1.1 200 OK

```
Protocol version : HTTP/1.1
```

SSL : no

```
Keep-Alive : yes
```

Options allowed : (Not implemented)

Headers :

Date: Sun, 12 Nov 2023 19:48:48 GMT

Server: Apache/2.2.8 (Ubuntu) DAV/2

X-Powered-By: PHP/5.2.4-2ubuntu5.10

Content-Length: 891

```
Keep-Alive: timeout=15, max=100
```

Connection: Keep-Alive

Content-Type: text/html

Response Body :

```
<html><head><title>Metasploitable2 - Linux</title></head><body>
<pre>
```

[illegible]

Warning: Never expose this VM to an untrusted network!

Contact: msfdev[at]metasploit.com

Login with msfadmin/msfadmin to get started

```
</pre>
<ul>
<li><a href="/twiki/">TWiki</a></li>
<li><a href="/phpMyAdmin/">phpMyAdmin</a></li>
<li><a href="/mutillidae/">Mutillidae</a></li>
<li><a href="/dvwa/">DVWA</a></li>
<li><a href="/dav/">WebDAV</a></li>
</ul>
</body>
</html>
```

10114 - ICMP Timestamp Request Remote Date Disclosure

Synopsis

It is possible to determine the exact time set on the remote host.

Description

The remote host answers to an ICMP timestamp request. This allows an attacker to know the date that is set on the targeted machine, which may assist an unauthenticated, remote attacker in defeating time-based authentication protocols.

Timestamps returned from machines running Windows Vista / 7 / 2008 / 2008 R2 are deliberately incorrect, but usually within 1000 seconds of the actual system time.

Solution

Filter out the ICMP timestamp requests (13), and the outgoing ICMP timestamp replies (14).

Risk Factor

None

CVSS v3.0 Base Score

0.0 (CVSS:3.0/AV:L/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:N)

CVSS v2.0 Base Score

0.0 (CVSS2#AV:L/AC:L/Au:N/C:N/I:N/A:N)

References

CVE	CVE-1999-0524
XREF	CWE:200

Plugin Information

Published: 1999/08/01, Modified: 2023/04/27

Plugin Output

icmp/0

```
The difference between the local and remote clocks is -1 seconds.
```

11156 - IRC Daemon Version Detection

Synopsis

The remote host is an IRC server.

Description

This plugin determines the version of the IRC daemon.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/11/19, Modified: 2016/01/08

Plugin Output

tcp/6667/irc

```
The IRC server version is : Unreal3.2.8.1. FhIXOoE [*=2309]
```

11156 - IRC Daemon Version Detection

Synopsis

The remote host is an IRC server.

Description

This plugin determines the version of the IRC daemon.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/11/19, Modified: 2016/01/08

Plugin Output

tcp/6697/irc

```
The IRC server version is : Unreal3.2.8.1. FhiXOoE [*=2309]
```

Synopsis

It is possible to obtain network information.

Description

It was possible to obtain the browse list of the remote Windows system by sending a request to the LANMAN pipe. The browse list is the list of the nearest Windows systems of the remote host.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2000/05/09, Modified: 2022/02/01

Plugin Output

tcp/445/cifs

```
Here is the browse list of the remote host :  
METASPLOITABLE ( os : 0.0 )
```


Synopsis

It was possible to obtain information about the remote operating system.

Description

Nessus was able to obtain the remote operating system name and version (Windows and/or Samba) by sending an authentication request to port 139 or 445. Note that this plugin requires SMB to be enabled on the host.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2001/10/17, Modified: 2021/09/20

Plugin Output

tcp/445/cifs

```
The remote Operating System is : Unix
The remote native LAN manager is : Samba 3.0.20-Debian
The remote SMB Domain Name is : METASPLOITABLE
```

Synopsis

A file / print sharing service is listening on the remote host.

Description

The remote service understands the CIFS (Common Internet File System) or Server Message Block (SMB) protocol, used to provide shared access to files, printers, etc between nodes on a network.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/06/05, Modified: 2021/02/11

Plugin Output

tcp/139/smb

```
An SMB server is running on this port.
```

Synopsis

A file / print sharing service is listening on the remote host.

Description

The remote service understands the CIFS (Common Internet File System) or Server Message Block (SMB) protocol, used to provide shared access to files, printers, etc between nodes on a network.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/06/05, Modified: 2021/02/11

Plugin Output

tcp/445/cifs

```
A CIFS server is running on this port.
```

100871 - Microsoft Windows SMB Versions Supported (remote check)

Synopsis

It was possible to obtain information about the version of SMB running on the remote host.

Description

Nessus was able to obtain the version of SMB running on the remote host by sending an authentication request to port 139 or 445.

Note that this plugin is a remote check and does not work on agents.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2017/06/19, Modified: 2019/11/22

Plugin Output

tcp/445/cifs

```
The remote host supports the following versions of SMB :  
SMBv1
```

Synopsis

It was possible to obtain information about the dialects of SMB2 and SMB3 available on the remote host.

Description

Nessus was able to obtain the set of SMB2 and SMB3 dialects running on the remote host by sending an authentication request to port 139 or 445.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2018/02/09, Modified: 2020/03/11

Plugin Output

tcp/445/cifs

```
The remote host does NOT support the following SMB dialects :
_version_  _introduced in windows version_
2.0.2      Windows 2008
2.1        Windows 7
2.2.2      Windows 8 Beta
2.2.4      Windows 8 Beta
3.0        Windows 8
3.0.2      Windows 8.1
3.1        Windows 10
3.1.1      Windows 10
```

10719 - MySQL Server Detection

Synopsis

A database server is listening on the remote port.

Description

The remote host is running MySQL, an open source database server.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0802

Plugin Information

Published: 2001/08/13, Modified: 2022/10/12

Plugin Output

tcp/3306/mysql

```
Version : 5.0.51a-3ubuntu5
Protocol : 10
Server Status : SERVER_STATUS_AUTOCOMMIT
Server Capabilities :
  CLIENT_LONG_FLAG (Get all column flags)
  CLIENT_CONNECT_WITH_DB (One can specify db on connect)
  CLIENT_COMPRESS (Can use compression protocol)
  CLIENT_PROTOCOL_41 (New 4.1 protocol)
  CLIENT_SSL (Switch to SSL after handshake)
  CLIENT_TRANSACTIONS (Client knows about transactions)
  CLIENT_SECURE_CONNECTION (New 4.1 authentication)
```

Synopsis

The remote NFS server exports a list of shares.

Description

This plugin retrieves the list of NFS exported shares.

See Also

<http://www.tldp.org/HOWTO/NFS-HOWTO/security.html>

Solution

Ensure each share is intended to be exported.

Risk Factor

None

Plugin Information

Published: 2000/06/07, Modified: 2019/10/04

Plugin Output

tcp/2049/rpc-nfs

```
Here is the export list of 192.168.60.5 :
```

```
/ *
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/21/ftp

```
Port 21/tcp was found to be open
```


Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/22/ssh

```
Port 22/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/23/telnet

```
Port 23/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/25/smtp

```
Port 25/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/53

```
Port 53/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/80/www

```
Port 80/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/111/rpc-portmapper

```
Port 111/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/139/smb

```
Port 139/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/445/cifs

```
Port 445/tcp was found to be open
```


Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/512

```
Port 512/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/513/rlogin

```
Port 513/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/514/rsh

```
Port 514/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/1099/rmi_registry

```
Port 1099/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/1524/wild_shell

```
Port 1524/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/2049/rpc-nfs

```
Port 2049/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/2121/ftp

```
Port 2121/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/3306/mysql

```
Port 3306/tcp was found to be open
```


Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/3632

```
Port 3632/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/5432/postgresql

```
Port 5432/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/5900/vnc

```
Port 5900/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/6000/x11

```
Port 6000/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/6667/irc

```
Port 6667/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/6697/irc

```
Port 6697/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/8009

```
Port 8009/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/8180

```
Port 8180/tcp was found to be open
```


Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/8787

```
Port 8787/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/37406/rpc-mountd

```
Port 37406/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/52952/rpc-status

```
Port 52952/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/56685

```
Port 56685/tcp was found to be open
```

Synopsis

It is possible to determine which TCP ports are open.

Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

Solution

Protect your target with an IP filter.

Risk Factor

None

Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

Plugin Output

tcp/60158/rpc-nlockmgr

```
Port 60158/tcp was found to be open
```

Synopsis

This plugin displays information about the Nessus scan.

Description

This plugin displays, for each tested host, information about the scan itself :

- The version of the plugin set.
- The type of scanner (Nessus or Nessus Home).
- The version of the Nessus Engine.
- The port scanner(s) used.
- The port range scanned.
- The ping round trip time
- Whether credentialed or third-party patch management checks are possible.
- Whether the display of superseded patches is enabled
- The date of the scan.
- The duration of the scan.
- The number of hosts scanned in parallel.
- The number of checks done in parallel.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2005/08/26, Modified: 2023/07/31

Plugin Output

tcp/0

Information about this scan :

```
Nessus version : 10.6.2
Nessus build : 20009
Plugin feed version : 202311121642
Scanner edition used : Nessus Home
Scanner OS : LINUX
Scanner distribution : debian10-x86-64
Scan type : Normal
Scan name : MS2 vulnerability scan
```

```
Scan policy used : Basic Network Scan
Scanner IP : 192.168.60.4
Port scanner(s) : nessus_syn_scanner
Port range : 1-65535
Ping RTT : Unavailable
Thorough tests : no
Experimental tests : no
Plugin debugging enabled : no
Paranoia level : 1
Report verbosity : 2
Safe checks : yes
Optimize the test : yes
Credentialed checks : no
Patch management checks : None
Display superseded patches : yes (supersedence plugin launched)
CGI scanning : disabled
Web application tests : disabled
Max hosts : 30
Max checks : 4
Recv timeout : 5
Backports : Detected
Allow post-scan editing : Yes
Nessus Plugin Signature Checking : Enabled
Audit File Signature Checking : Disabled
Scan Start Date : 2023/11/12 11:45 PST
Scan duration : 568 sec
Scan for malware : no
```

Synopsis

It is possible to guess the remote operating system.

Description

Using a combination of remote probes (e.g., TCP/IP, SMB, HTTP, NTP, SNMP, etc.), it is possible to guess the name of the remote operating system in use. It is also possible sometimes to guess the version of the operating system.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2003/12/09, Modified: 2023/11/08

Plugin Output

tcp/0

```
Remote operating system : Linux Kernel 2.6 on Ubuntu 8.04 (gutsy)
Confidence level : 95
Method : HTTP
```

```
Not all fingerprints could give a match. If you think some or all of
the following could be used to identify the host's operating system,
please email them to os-signatures@nessus.org. Be sure to include a
brief description of the host itself, such as the actual operating
system or product / model names.
```

```
SSH:SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntu1
SMTP:!:220 metasploitable.localdomain ESMTF Postfix (Ubuntu)
```

```
The remote host is running Linux Kernel 2.6 on Ubuntu 8.04 (gutsy)
```


117886 - OS Security Patch Assessment Not Available

Synopsis

OS Security Patch Assessment is not available.

Description

OS Security Patch Assessment is not available on the remote host.

This does not necessarily indicate a problem with the scan.

Credentials may not have been provided, OS security patch assessment may not be supported for the target, the target may not have been identified, or another issue may have occurred that prevented OS security patch assessment from being available. See plugin output for details.

This plugin reports non-failure information impacting the availability of OS Security Patch Assessment. Failure information is reported by plugin 21745 : 'OS Security Patch Assessment failed'. If a target host is not supported for OS Security Patch Assessment, plugin 110695 : 'OS Security Patch Assessment Checks Not Supported' will report concurrently with this plugin.

Solution

n/a

Risk Factor

None

References

XREF IAVB:0001-B-0515

Plugin Information

Published: 2018/10/02, Modified: 2021/07/12

Plugin Output

tcp/0

The following issues were reported :

```
- Plugin      : no_local_checks_credentials.nasl
  Plugin ID   : 110723
  Plugin Name : Target Credential Status by Authentication Protocol - No Credentials Provided
  Message     :
  Credentials were not provided for detected SSH service.
```

Synopsis

An OpenSSH-based SSH server was detected on the remote host.

Description

An OpenSSH-based SSH server was detected on the remote host.

See Also

<https://www.openssh.com/>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2023/09/14, Modified: 2023/10/30

Plugin Output

tcp/22/ssh

```
Path      : /  
Version   : 4.7p1  
Distribution : debian-8ubuntu1
```

Synopsis

The remote service appears to use OpenSSL to encrypt traffic.

Description

Based on its response to a TLS request with a specially crafted server name extension, it seems that the remote service is using the OpenSSL library to encrypt traffic.

Note that this plugin can only detect OpenSSL implementations that have enabled support for TLS extensions (RFC 4366).

See Also

<https://www.openssl.org/>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2010/11/30, Modified: 2020/06/12

Plugin Output

tcp/25/smtp

48243 - PHP Version Detection

Synopsis

It was possible to obtain the version number of the remote PHP installation.

Description

Nessus was able to determine the version of PHP available on the remote web server.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0936

Plugin Information

Published: 2010/08/04, Modified: 2022/10/12

Plugin Output

tcp/80/www

```
Nessus was able to identify the following PHP version information :
```

```
Version : 5.2.4-2ubuntu5.10  
Source  : X-Powered-By: PHP/5.2.4-2ubuntu5.10
```

Synopsis

The remote host is missing several patches.

Description

The remote host is missing one or more security patches. This plugin lists the newest version of each patch to install to make sure the remote host is up-to-date.

Note: Because the 'Show missing patches that have been superseded' setting in your scan policy depends on this plugin, it will always run and cannot be disabled.

Solution

Install the patches listed below.

Risk Factor

None

Plugin Information

Published: 2013/07/08, Modified: 2023/10/10

Plugin Output

tcp/0

```
. You need to take the following action :  
[ Samba Badlock Vulnerability (90509) ]  
+ Action to take : Upgrade to Samba version 4.2.11 / 4.3.8 / 4.4.2 or later.
```

Synopsis

A database service is listening on the remote host.

Description

The remote service is a PostgreSQL database server, or a derivative such as EnterpriseDB.

See Also

<https://www.postgresql.org/>

Solution

Limit incoming traffic to this port if desired.

Risk Factor

None

Plugin Information

Published: 2007/09/14, Modified: 2023/05/24

Plugin Output

tcp/5432/postgresql

22227 - RMI Registry Detection

Synopsis

An RMI registry is listening on the remote host.

Description

The remote host is running an RMI registry, which acts as a bootstrap naming service for registering and retrieving remote objects with simple names in the Java Remote Method Invocation (RMI) system.

See Also

<https://docs.oracle.com/javase/1.5.0/docs/guide/rmi/spec/rmiTOC.html>

<http://www.nessus.org/u?b6fd7659>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2006/08/16, Modified: 2022/06/01

Plugin Output

tcp/1099/rmi_registry

tcp/1099/rmi_registry

```
Valid response recieved for port 1099:
0x00:  51 AC ED 00 05 77 0F 01 49 1E 58 61 00 00 01 8B      Q....w..I.Xa....
0x10:  C5 15 62 A7 80 02 75 72 00 13 5B 4C 6A 61 76 61      ..b...ur..[Ljava
0x20:  2E 6C 61 6E 67 2E 53 74 72 69 6E 67 3B AD D2 56      .lang.String;..V
0x30:  E7 E9 1D 7B 47 02 00 00 70 78 70 00 00 00 00      ...{G...pxp....
```

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

tcp/111/rpc-portmapper

```
The following RPC services are available on TCP port 111 :  
- program: 100000 (portmapper), version: 2
```


11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

udp/111/rpc-portmapper

```
The following RPC services are available on UDP port 111 :  
- program: 100000 (portmapper), version: 2
```

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

tcp/2049/rpc-nfs

The following RPC services are available on TCP port 2049 :

- program: 100003 (nfs), version: 2
- program: 100003 (nfs), version: 3
- program: 100003 (nfs), version: 4

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

udp/2049/rpc-nfs

The following RPC services are available on UDP port 2049 :

- program: 100003 (nfs), version: 2
- program: 100003 (nfs), version: 3
- program: 100003 (nfs), version: 4

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

tcp/37406/rpc-mountd

The following RPC services are available on TCP port 37406 :

- program: 100005 (mountd), version: 1
- program: 100005 (mountd), version: 2
- program: 100005 (mountd), version: 3

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

udp/39639/rpc-nlockmgr

The following RPC services are available on UDP port 39639 :

- program: 100021 (nlockmgr), version: 1
- program: 100021 (nlockmgr), version: 3
- program: 100021 (nlockmgr), version: 4

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

udp/43813/rpc-status

The following RPC services are available on UDP port 43813 :

- program: 100024 (status), version: 1

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

udp/45784/rpc-mountd

The following RPC services are available on UDP port 45784 :

- program: 100005 (mountd), version: 1
- program: 100005 (mountd), version: 2
- program: 100005 (mountd), version: 3

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

tcp/52952/rpc-status

The following RPC services are available on TCP port 52952 :

- program: 100024 (status), version: 1

11111 - RPC Services Enumeration

Synopsis

An ONC RPC service is running on the remote host.

Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

Plugin Output

tcp/60158/rpc-nlockmgr

The following RPC services are available on TCP port 60158 :

- program: 100021 (nlockmgr), version: 1
- program: 100021 (nlockmgr), version: 3
- program: 100021 (nlockmgr), version: 4

53335 - RPC portmapper (TCP)

Synopsis

An ONC RPC portmapper is running on the remote host.

Description

The RPC portmapper is running on this port.

The portmapper allows someone to get the port number of each RPC service running on the remote host by sending either multiple lookup requests or a DUMP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2011/04/08, Modified: 2011/08/29

Plugin Output

tcp/111/rpc-portmapper

10223 - RPC portmapper Service Detection

Synopsis

An ONC RPC portmapper is running on the remote host.

Description

The RPC portmapper is running on this port.

The portmapper allows someone to get the port number of each RPC service running on the remote host by sending either multiple lookup requests or a DUMP request.

Solution

n/a

Risk Factor

None

CVSS v3.0 Base Score

0.0 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:N)

CVSS v2.0 Base Score

0.0 (CVSS2#AV:N/AC:L/Au:N/C:N/I:N/A:N)

References

CVE CVE-1999-0632

Plugin Information

Published: 1999/08/19, Modified: 2019/10/04

Plugin Output

udp/111/rpc-portmapper

10263 - SMTP Server Detection

Synopsis

An SMTP server is listening on the remote port.

Description

The remote host is running a mail (SMTP) server on this port.

Since SMTP servers are the targets of spammers, it is recommended you disable it if you do not use it.

Solution

Disable this service if you do not use it, or filter incoming traffic to this port.

Risk Factor

None

References

XREF IAVT:0001-T-0932

Plugin Information

Published: 1999/10/12, Modified: 2020/09/22

Plugin Output

tcp/25/smtp

```
Remote SMTP server banner :  
  
220 metasploitable.localdomain ESMTP Postfix (Ubuntu)
```

Synopsis

The remote mail service supports encrypting traffic.

Description

The remote SMTP service supports the use of the 'STARTTLS' command to switch from a cleartext to an encrypted communications channel.

See Also

<https://en.wikipedia.org/wiki/STARTTLS>

<https://tools.ietf.org/html/rfc2487>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2009/10/09, Modified: 2019/03/20

Plugin Output

tcp/25/smtp

```
The remote SMTP service responded to the 'STARTTLS' command with a
'220' response code, suggesting that it supports that command. However,
Nessus failed to negotiate a TLS connection or get the associated SSL
certificate, perhaps because of a network connectivity problem or the
service requires a peer certificate as part of the negotiation.
```

Synopsis

An SSH server is listening on this port.

Description

This script detects which algorithms and languages are supported by the remote service for encrypting communications.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2013/10/28, Modified: 2017/08/28

Plugin Output

tcp/22/ssh

```
Nessus negotiated the following encryption algorithm with the server :
```

```
The server supports the following options for kex_algorithms :
```

```
diffie-hellman-group-exchange-sha1
diffie-hellman-group-exchange-sha256
diffie-hellman-group1-sha1
diffie-hellman-group14-sha1
```

```
The server supports the following options for server_host_key_algorithms :
```

```
ssh-dss
ssh-rsa
```

```
The server supports the following options for encryption_algorithms_client_to_server :
```

```
3des-cbc
aes128-cbc
aes128-ctr
aes192-cbc
aes192-ctr
aes256-cbc
aes256-ctr
arcfour
arcfour128
arcfour256
blowfish-cbc
cast128-cbc
rijndael-cbc@lysator.liu.se
```

The server supports the following options for encryption_algorithms_server_to_client :

```
3des-cbc
aes128-cbc
aes128-ctr
aes192-cbc
aes192-ctr
aes256-cbc
aes256-ctr
arcfour
arcfour128
arcfour256
blowfish-cbc
cast128-cbc
rijndael-cbc@lysator.liu.se
```

The server supports the following options for mac_algorithms_client_to_server :

```
hmac-md5
hmac-md5-96
hmac-ripemd160
hmac-ripemd160@openssh.com
hmac-sha1
hmac-sha1-96
umac-64@openssh.com
```

The server supports the following options for mac_algorithms_server_to_client :

```
hmac-md5
hmac-md5-96
hmac-ripemd160
hmac-ripemd160@openssh.com
hmac-sha1
hmac-sha1-96
umac-64@openssh.com
```

The server supports the following options for compression_algorithms_client_to_server :

```
none
zlib@openssh.com
```

The server supports the following options for compression_algorithms_server_to_client :

```
none
zlib@openssh.com
```

Synopsis

The SSH server on the remote host accepts password authentication.

Description

The SSH server on the remote host accepts password authentication.

See Also

<https://tools.ietf.org/html/rfc4252#section-8>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2021/05/07, Modified: 2021/05/07

Plugin Output

tcp/22/ssh

10881 - SSH Protocol Versions Supported

Synopsis

A SSH server is running on the remote host.

Description

This plugin determines the versions of the SSH protocol supported by the remote SSH daemon.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/03/06, Modified: 2021/01/19

Plugin Output

tcp/22/ssh

```
The remote SSH daemon supports the following versions of the  
SSH protocol :
```

- 1.99
- 2.0

Synopsis

The remote SSH server is configured to enable SHA-1 HMAC algorithms.

Description

The remote SSH server is configured to enable SHA-1 HMAC algorithms.

Although NIST has formally deprecated use of SHA-1 for digital signatures, SHA-1 is still considered secure for HMAC as the security of HMAC does not rely on the underlying hash function being resistant to collisions.

Note that this plugin only checks for the options of the remote SSH server.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2021/09/23, Modified: 2022/04/05

Plugin Output

tcp/22/ssh

```
The following client-to-server SHA-1 Hash-based Message Authentication Code (HMAC) algorithms are supported :
```

```
  hmac-sha1
  hmac-sha1-96
```

```
The following server-to-client SHA-1 Hash-based Message Authentication Code (HMAC) algorithms are supported :
```

```
  hmac-sha1
  hmac-sha1-96
```

10267 - SSH Server Type and Version Information

Synopsis

An SSH server is listening on this port.

Description

It is possible to obtain information about the remote SSH server by sending an empty authentication request.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0933

Plugin Information

Published: 1999/10/12, Modified: 2020/09/22

Plugin Output

tcp/22/ssh

```
SSH version : SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntu1
SSH supported authentication : publickey,password
```

56984 - SSL / TLS Versions Supported

Synopsis

The remote service encrypts communications.

Description

This plugin detects which SSL and TLS versions are supported by the remote service for encrypting communications.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2011/12/01, Modified: 2023/07/10

Plugin Output

tcp/25/smtp

```
This port supports SSLv2/SSLv3/TLSv1.0.
```

70544 - SSL Cipher Block Chaining Cipher Suites Supported

Synopsis

The remote service supports the use of SSL Cipher Block Chaining ciphers, which combine previous blocks with subsequent ones.

Description

The remote host supports the use of SSL ciphers that operate in Cipher Block Chaining (CBC) mode. These cipher suites offer additional security over Electronic Codebook (ECB) mode, but have the potential to leak information if used improperly.

See Also

<https://www.openssl.org/docs/manmaster/man1/ciphers.html>

<http://www.nessus.org/u?cc4a822a>

<https://www.openssl.org/~bodo/tls-cbc.txt>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2013/10/22, Modified: 2021/02/03

Plugin Output

tcp/25/smtp

Here is the list of SSL CBC ciphers supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH (512)	None	DES-CBC (40)	
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	

EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC (56)	

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
DES-CBC3-MD5	0x07, 0x00, 0xC0	RSA	RSA	3DES-CBC (168)	MD5
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	
ADH-DES-CBC3-SHA SHA1	0x00, 0x1B	DH	None	3DES-CBC (168)	
DES-CBC3-SHA SHA1	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
..... [...]				

21643 - SSL Cipher Suites Supported

Synopsis

The remote service encrypts communications using SSL.

Description

This plugin detects which SSL ciphers are supported by the remote service for encrypting communications.

See Also

<https://www.openssl.org/docs/man1.0.2/man1/ciphers.html>

<http://www.nessus.org/u?e17ffced>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2006/06/05, Modified: 2023/07/10

Plugin Output

tcp/25/smtp

Here is the list of SSL ciphers supported by the remote server :
Each group is reported per SSL Version.

SSL Version : TLSv1

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH (512)	None	DES-CBC (40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5

EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC (56)	

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	
ADH-DES-CBC3-SHA SHA1	0x00, 0x1B	DH	None	3DES-CBC (168)	
DES-CBC3-SHA SHA1	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	[...]
------	------	-----	------	-------

Synopsis

The remote service supports one or more compression methods for SSL connections.

Description

This script detects which compression methods are supported by the remote service for SSL connections.

See Also

<http://www.iana.org/assignments/comp-meth-ids/comp-meth-ids.xml>

<https://tools.ietf.org/html/rfc3749>

<https://tools.ietf.org/html/rfc3943>

<https://tools.ietf.org/html/rfc5246>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2012/10/16, Modified: 2022/04/11

Plugin Output

tcp/25/smtp

```
Nessus was able to confirm that the following compression method is
supported by the target :
```

```
DEFLATE (0x01)
```

57041 - SSL Perfect Forward Secrecy Cipher Suites Supported

Synopsis

The remote service supports the use of SSL Perfect Forward Secrecy ciphers, which maintain confidentiality even if the key is stolen.

Description

The remote host supports the use of SSL ciphers that offer Perfect Forward Secrecy (PFS) encryption. These cipher suites ensure that recorded SSL traffic cannot be broken at a future date if the server's private key is compromised.

See Also

<https://www.openssl.org/docs/manmaster/man1/ciphers.html>

https://en.wikipedia.org/wiki/Diffie-Hellman_key_exchange

https://en.wikipedia.org/wiki/Perfect_forward_secrecy

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2011/12/07, Modified: 2021/03/09

Plugin Output

tcp/25/smtp

Here is the list of SSL PFS ciphers supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
DHE-RSA-AES128-SHA SHA1	0x00, 0x33	DH	RSA	AES-CBC (128)	
DHE-RSA-AES256-SHA SHA1	0x00, 0x39	DH	RSA	AES-CBC (256)	

The fields above are :

```
{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```

51891 - SSL Session Resume Supported

Synopsis

The remote host allows resuming SSL sessions.

Description

This script detects whether a host allows resuming SSL sessions by performing a full SSL handshake to receive a session ID, and then reconnecting with the previously used session ID. If the server accepts the session ID in the second connection, the server maintains a cache of sessions that can be resumed.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2011/02/07, Modified: 2021/09/13

Plugin Output

tcp/25/smtp

```
This port supports resuming SSLv3 sessions.
```

Synopsis

The remote host advertises discouraged SSL/TLS ciphers.

Description

The remote host has open SSL/TLS ports which advertise discouraged cipher suites. It is recommended to only enable support for the following cipher suites:

TLSv1.3:

- 0x13,0x01 TLS13_AES_128_GCM_SHA256
- 0x13,0x02 TLS13_AES_256_GCM_SHA384
- 0x13,0x03 TLS13_CHACHA20_POLY1305_SHA256

TLSv1.2:

- 0xC0,0x2B ECDHE-ECDSA-AES128-GCM-SHA256
- 0xC0,0x2F ECDHE-RSA-AES128-GCM-SHA256
- 0xC0,0x2C ECDHE-ECDSA-AES256-GCM-SHA384
- 0xC0,0x30 ECDHE-RSA-AES256-GCM-SHA384
- 0xCC,0xA9 ECDHE-ECDSA-CHACHA20-POLY1305
- 0xCC,0xA8 ECDHE-RSA-CHACHA20-POLY1305
- 0x00,0x9E DHE-RSA-AES128-GCM-SHA256
- 0x00,0x9F DHE-RSA-AES256-GCM-SHA384

This is the recommended configuration for the vast majority of services, as it is highly secure and compatible with nearly every client released in the last five (or more) years.

See Also

https://wiki.mozilla.org/Security/Server_Side_TLS

<https://ssl-config.mozilla.org/>

Solution

Only enable support for recommended cipher suites.

Risk Factor

None

Plugin Information

Published: 2022/01/20, Modified: 2023/07/10

Plugin Output

tcp/25/smtp

The remote host has listening SSL/TLS ports which advertise the discouraged cipher suites outlined below:

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA (512)	RSA	RC4 (40)	MD5
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH (512)	None	DES-CBC (40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC (56)	

Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)

Name	Code	KEX	Auth	Encryption	MAC
DES-CBC3-MD5	0x07, 0x00, 0xC0	RSA	RSA	3DES-CBC (168)	MD5
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	
ADH-DE [...]					

Synopsis

An SMB server is running on the remote host.

Description

The remote host is running Samba, a CIFS/SMB server for Linux and Unix.

See Also

<https://www.samba.org/>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/05/16, Modified: 2022/10/12

Plugin Output

tcp/445/cifs

Synopsis

It was possible to obtain the samba version from the remote operating system.

Description

Nessus was able to obtain the samba version from the remote operating by sending an authentication request to port 139 or 445. Note that this plugin requires SMB1 to be enabled on the host.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2017/11/30, Modified: 2019/11/22

Plugin Output

tcp/445/cifs

```
The remote Samba Version is : Samba 3.0.20-Debian
```


96982 - Server Message Block (SMB) Protocol Version 1 Enabled (uncredentialed check)

Synopsis

The remote Windows host supports the SMBv1 protocol.

Description

The remote Windows host supports Server Message Block Protocol version 1 (SMBv1). Microsoft recommends that users discontinue the use of SMBv1 due to the lack of security features that were included in later SMB versions. Additionally, the Shadow Brokers group reportedly has an exploit that affects SMB; however, it is unknown if the exploit affects SMBv1 or another version. In response to this, US-CERT recommends that users disable SMBv1 per SMB best practices to mitigate these potential issues.

See Also

<https://blogs.technet.microsoft.com/filecab/2016/09/16/stop-using-smb1/>

<https://support.microsoft.com/en-us/help/2696547/how-to-detect-enable-and-disable-smbv1-smbv2-and-smbv3-in-windows-and>

<http://www.nessus.org/u?8dcab5e4>

<http://www.nessus.org/u?234f8ef8>

<http://www.nessus.org/u?4c7e0cf3>

Solution

Disable SMBv1 according to the vendor instructions in Microsoft KB2696547. Additionally, block SMB directly by blocking TCP port 445 on all network boundary devices. For SMB over the NetBIOS API, block TCP ports 137 / 139 and UDP ports 137 / 138 on all network boundary devices.

Risk Factor

None

References

XREF IAVT:0001-T-0710

Plugin Information

Published: 2017/02/03, Modified: 2020/09/22

Plugin Output

tcp/445/cifs

```
The remote host supports SMBv1.
```


Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/21/ftp

```
An FTP server is running on this port.
```

Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/22/ssh

```
An SSH server is running on this port.
```

Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/23/telnet

```
A telnet server is running on this port.
```

Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/25/smtp

```
An SMTP server is running on this port.
```

Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/80/www

```
A web server is running on this port.
```

Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/1524/wild_shell

```
A shell server (Metasploitable) is running on this port.
```


Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/2121/ftp

```
An FTP server is running on this port.
```

Synopsis

The remote service could be identified.

Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

Plugin Output

tcp/5900/vnc

```
A vnc server is running on this port.
```

17975 - Service Detection (GET request)

Synopsis

The remote service could be identified.

Description

It was possible to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0935

Plugin Information

Published: 2005/04/06, Modified: 2021/10/27

Plugin Output

tcp/6667/irc

```
An IRC daemon is listening on this port.
```

17975 - Service Detection (GET request)

Synopsis

The remote service could be identified.

Description

It was possible to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

Solution

n/a

Risk Factor

None

References

XREF IAVT:0001-T-0935

Plugin Information

Published: 2005/04/06, Modified: 2021/10/27

Plugin Output

tcp/6697/irc

```
An IRC daemon is listening on this port.
```

11153 - Service Detection (HELP Request)

Synopsis

The remote service could be identified.

Description

It was possible to identify the remote service by its banner or by looking at the error message it sends when it receives a 'HELP' request.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2002/11/18, Modified: 2018/11/26

Plugin Output

tcp/3306/mysql

```
A MySQL server is running on this port.
```

110723 - Target Credential Status by Authentication Protocol - No Credentials Provided

Synopsis

Nessus was able to find common ports used for local checks, however, no credentials were provided in the scan policy.

Description

Nessus was not able to successfully authenticate directly to the remote target on an available authentication protocol. Nessus was able to connect to the remote port and identify that the service running on the port supports an authentication protocol, but Nessus failed to authenticate to the remote service using the provided credentials. There may have been a protocol failure that prevented authentication from being attempted or all of the provided credentials for the authentication protocol may be invalid. See plugin output for error details.

Please note the following :

- This plugin reports per protocol, so it is possible for valid credentials to be provided for one protocol and not another. For example, authentication may succeed via SSH but fail via SMB, while no credentials were provided for an available SNMP service.
- Providing valid credentials for all available authentication protocols may improve scan coverage, but the value of successful authentication for a given protocol may vary from target to target depending upon what data (if any) is gathered from the target via that protocol. For example, successful authentication via SSH is more valuable for Linux targets than for Windows targets, and likewise successful authentication via SMB is more valuable for Windows targets than for Linux targets.

Solution

n/a

Risk Factor

None

References

XREF IAVB:0001-B-0504

Plugin Information

Published: 2018/06/27, Modified: 2023/02/13

Plugin Output

tcp/0

```
SSH was detected on port 22 but no credentials were provided.  
SSH local checks were not enabled.
```


Synopsis

It was possible to obtain the network name of the remote host.

Description

The remote host is listening on UDP port 137 or TCP port 445, and replies to NetBIOS nbtscan or SMB requests.

Note that this plugin gathers information to be used in other plugins, but does not itself generate a report.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 1999/10/12, Modified: 2021/02/10

Plugin Output

udp/137/netbios-ns

The following 7 NetBIOS names have been gathered :

METASPLOITABLE	= Computer name
METASPLOITABLE	= Messenger Service
METASPLOITABLE	= File Server Service
_MSBROWSE	= Master Browser
WORKGROUP	= Workgroup / Domain name
WORKGROUP	= Master Browser
WORKGROUP	= Browser Service Elections

This SMB server seems to be a Samba server - its MAC address is NULL.