

# Metasploitable

Report generated by Nessus™

Mon, 05 Jun 2023 03:19:43 EDT

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# 192.168.50.101



#### Scan Information

Start time: Mon Jun 5 02:52:36 2023 End time: Mon Jun 5 03:19:43 2023

#### Host Information

Netbios Name: METASPLOITABLE
IP: 192.168.50.101
MAC Address: 08:00:27:3F:5D:46

OS: Linux Kernel 2.6 on Ubuntu 8.04 (hardy)

# **Vulnerabilities**

# 134862 - Apache Tomcat AJP Connector Request Injection (Ghostcat)

# Synopsis

There is a vulnerable AJP connector listening on the remote host.

#### Description

A file read/inclusion vulnerability was found in AJP connector. A remote, unauthenticated attacker could exploit this vulnerability to read web application files from a vulnerable server. In instances where the vulnerable server allows file uploads, an attacker could upload malicious JavaServer Pages (JSP) code within a variety of file types and gain remote code execution (RCE).

#### See Also

http://www.nessus.org/u?8ebe6246

http://www.nessus.org/u?4e287adb

http://www.nessus.org/u?cbc3d54e

https://access.redhat.com/security/cve/CVE-2020-1745

https://access.redhat.com/solutions/4851251

http://www.nessus.org/u?dd218234

http://www.nessus.org/u?dd772531

http://www.nessus.org/u?2a01d6bf

http://www.nessus.org/u?3b5af27e

http://www.nessus.org/u?9dab109f

http://www.nessus.org/u?5eafcf70

#### Solution

Update the AJP configuration to require authorization and/or upgrade the Tomcat server to 7.0.100, 8.5.51, 9.0.31 or later.

Risk Factor

High

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 v3.0 Temporal Score

9.4 (CVSS:3.0/E:H/RL:O/RC:C)

**VPR** Score

9.0

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

6.5 (CVSS2#E:H/RL:OF/RC:C)

#### References

CVE CVE-2020-1745 CVE CVE-2020-1938

XREF CISA-KNOWN-EXPLOITED:2022/03/17

XREF CEA-ID:CEA-2020-0021

Plugin Information

Published: 2020/03/24, Modified: 2023/05/24

Plugin Output

tcp/8009/ajp13

```
Nessus was able to exploit the issue using the following request :
0x0000: 02 02 00 08 48 54 54 50 2F 31 2E 31 00 00 0F 2F
                                                              ....HTTP/1.1.../
0x0010: 61 73 64 66 2F 78 78 78 78 78 2E 6A 73 70 00 00
                                                           asdf/xxxxx.jsp..
0x0020: 09 6C 6F 63 61 6C 68 6F 73 74 00 FF FF 00 09 6C
                                                             .localhost....l
0x0030: 6F 63 61 6C 68 6F 73 74 00 00 50 00 00 09 A0 06 ocalhost..p....
0x0040: 00 0A 6B 65 65 70 2D 61 6C 69 76 65 00 00 0F 41 0x0050: 63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 00 00
                                                              ..keep-alive...A
                                                              ccept-Language..
0x0060: 0E 65 6E 2D 55 53 2C 65 6E 3B 71 3D 30 2E 35 00
                                                              .en-US, en; q=0.5.
                                                              ....O...Accept-E
0x0070: A0 08 00 01 30 00 00 0F 41 63 63 65 70 74 2D 45
0x0080: 6E 63 6F 64 69 6E 67 00 00 13 67 7A 69 70 2C 20 ncoding...gzip,
0x0090: 64 65 66 6C 61 74 65 2C 20 73 64 63 68 00 00 0D deflate, sdch...
0x00A0:
        43 61 63 68 65 2D 43 6F 6E 74 72 6F 6C 00 00 09
                                                             Cache-Control...
0x00B0: 6D 61 78 2D 61 67 65 3D 30 00 A0 0E 00 07 4D 6F
                                                              max-age=0....Mo
0x00C0: 7A 69 6C 6C 61 00 00 19 55 70 67 72 61 64 65 2D
                                                             zilla...Upgrade-
0x00D0: 49 6E 73 65 63 75 72 65 2D 52 65 71 75 65 73 74 Insecure-Request
0 \times 00 = 0: 73 00 00 01 31 00 A0 01 00 09 74 65 78 74 2F 68 s...1.....text/h
0x00F0: 74 6D 6C 00 A0 0B 00 09 6C 6F 63 61 6C 68 6F 73 0x0100: 74 00 0A 00 21 6A 61 76 61 78 2E 73 65 72 76 6C
                                                              tml....localhos
                                                              t...!javax.servl
0x0110: 65 74 2E 69 6E 63 6C 75 64 65 2E 72 65 71 75 65
                                                              et.include.reque
0x0120: 73 74 5F 75 72 69 00 00 01 31 00 0A 00 1F 6A 61
                                                              st uri...1...ia
0x0130: 76 61 78 2E 73 65 72 76 6C 65 74 2E 69 6E 63 6C
                                                              vax.servlet.incl
0x0140: 75 64 65 2E 70 61 74 68 5F 69 6E 66 6F 00 00 10
                                                             ude.path_info...
0x0150:
        2F 57 45 42 2D 49 4E 46 2F 77 65 62 2E 78 6D 6C
                                                             /WEB-INF/web.xml
0x0160: 00 0A 00 22 6A 61 76 61 78 2E 73 65 72 76 6C 65
                                                              ..."javax.servle
0x0170: 74 2E 69 6E 63 6C 75 64 65 2E 73 65 72 76 6C 65
                                                              t.include.servle
0x0180: 74 5F 70 61 74 68 00 00 00 00 FF
                                                              t_path....
This produced the following truncated output (limite [...]
```

# 51988 - Bind Shell Backdoor Detection

# Synopsis

The remote host may have been compromised.

# Description

A shell is listening on the remote port without any authentication being required. An attacker may use it by connecting to the remote port and sending commands directly.

#### Solution

Verify if the remote host has been compromised, and reinstall the system if necessary.

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: 2011/02/15, Modified: 2022/04/11

#### Plugin Output

# tcp/1524/wild\_shell

# 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 particuliar, 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

# 32321 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)

# Synopsis

The remote SSL certificate uses a weak key.

# Description

The remote x509 certificate on the remote SSL server 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 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 particuliar, 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: 2008/05/15, Modified: 2020/11/16
Plugin Output
tcp/25/smtp

# 32321 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)

# Synopsis

The remote SSL certificate uses a weak key.

# Description

The remote x509 certificate on the remote SSL server 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 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 particuliar, 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: 2008/05/15, Modified: 2020/11/16
Plugin Output
tcp/5432/postgresal

# 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: 2018/09/17

# 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

. mmt

. nohup.out

. opt

. proc

. root

. sbin

. srv

. sys

. tmp

. usr

. var

. vmlinuz
```

#### 20007 - SSL Version 2 and 3 Protocol Detection

#### 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

	rver supports at 1	east one cipner	£ •		
Low Strength Ciphers (<= 64	-bit key)				
Name	Code	KEX	Auth	Encryption	N
EXP-RC2-CBC-MD5 export		RSA(512)	RSA	RC2-CBC(40)	
EXP-RC4-MD5 export		RSA(512)	RSA	RC4(40)	M
Medium Strength Ciphers (> 6	64-bit and < 112-b	it key, or 3DES	5)		
Name	Code	KEX	Auth	Encryption	
DES-CBC3-MD5		RSA		3DES-CBC(168)	
High Strength Ciphers (>= 1	12-bit key)				
Name	Code	KEX	Auth	Encryption	_ I
RC4-MD5		RSA	RSA	RC4 (128)	- I
e fields above are :					
{Tenable ciphername} {Cipher ID code} Kex={key exchange}					
Auth={authentication} Encrypt={symmetric encryptic MAC={message authentication {export flag}	code}				
<pre>Encrypt={symmetric encryptic MAC={message authentication</pre>	rver supports at l				
Encrypt={symmetric encryption MAC={message authentication {export flag} SSLv3 is enabled and the semplanation: TLS 1.0 and SSL 3	rver supports at 1				
Encrypt={symmetric encryption MAC={message authentication {export flag}  SSLv3 is enabled and the sent explanation: TLS 1.0 and SSL 3  Low Strength Ciphers (<= 64-1)	rver supports at 13.0 cipher suites : -bit key)  Code	may be used wit	th SSLv3		
Encrypt={symmetric encryption MAC={message authentication {export flag}  SSLv3 is enabled and the second and th	rver supports at 13.0 cipher suites : -bit key)	may be used wit	eh SSLv3	Encryption DES-CBC(40)	<u>M</u>

#### 20007 - SSL Version 2 and 3 Protocol Detection

#### 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/5432/postgresql

```
- 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
 Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)
                                                            Auth Encryption
   Name
                              Code
                                               KEX
                                                                                           MAC
                                                            RSA
   EDH-RSA-DES-CBC3-SHA
                                                                     3DES-CBC(168)
   DES-CBC3-SHA
                                                           RSA 3DES-CBC(168)
                                                RSA
 High Strength Ciphers (>= 112-bit key)
                                                            Auth Encryption
   Name
                               Code
                                               KEX
                                                                                           MAC
                                                             - - - -
   DHE-RSA-AES128-SHA
                                                            RSA
                                                                    AES-CBC(128)
                                                DH
   DHE-RSA-AES256-SHA
                                                DH
                                                            RSA AES-CBC(256)
  AES128-SHA
                                                RSA
                                                            RSA AES-CBC(128)
 SHA1
                                                                    AES-CBC (256)
   AES256-SHA
                                                RSA
                                                            RSA
                                                             RSA
                                                                    RC4 (128)
   RC4 - SHA
                                                RSA
 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}
```

# 33850 - Unix Operating System Unsupported Version Detection

# Synopsis

The operating system running on the remote host is no longer supported.

# Description

According to its self-reported version number, the Unix operating system running on the remote host is no longer supported.

Lack of support implies that no new security patches for the product will be released by the vendor. As a result, it is likely to contain security vulnerabilities.

#### Solution

Upgrade to a version of the Unix operating system that is currently supported.

#### Risk Factor

Critical

#### CVSS v3.0 Base Score

10.0 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:C/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)

#### References

XREF IAVA:0001-A-0502 XREF IAVA:0001-A-0648

#### Plugin Information

Published: 2008/08/08, Modified: 2023/05/18

# Plugin Output

#### tcp/0

```
Ubuntu 8.04 support ended on 2011-05-12 (Desktop) / 2013-05-09 (Server). Upgrade to Ubuntu 21.04 / LTS 20.04 / LTS 18.04.
```

For more information, see : https://wiki.ubuntu.com/Releases

# 61708 - VNC Server 'password' Password

# Synopsis

A VNC server running on the remote host is secured with a weak password.

# Description

The VNC server running on the remote host is secured with a weak password. Nessus was able to login using VNC authentication and a password of 'password'. A remote, unauthenticated attacker could exploit this to take control of the system.

#### Solution

Secure the VNC service with a strong password.

Risk Factor

Critical

CVSS v2.0 Base Score

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

Plugin Information

Published: 2012/08/29, Modified: 2015/09/24

Plugin Output

tcp/5900/vnc

Nessus logged in using a password of "password".

# 136769 - ISC BIND Service Downgrade / Reflected DoS

Synopsis
The remote name server is affected by Service Downgrade / Reflected DoS vulnerabilities.
Description
According to its self-reported version, the instance of ISC BIND 9 running on the remote name server is affected by performance downgrade and Reflected DoS vulnerabilities. This is due to BIND DNS not sufficiently limiting the number fetches which may be performed while processing a referral response.
An unauthenticated, remote attacker can exploit this to cause degrade the service of the recursive server or to use the affected server as a reflector in a reflection attack.
See Also
https://kb.isc.org/docs/cve-2020-8616
Solution
Upgrade to the ISC BIND version referenced in the vendor advisory.
Risk Factor
Medium
CVSS v3.0 Base Score
8.6 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:H)
CVSS v3.0 Temporal Score
7.5 (CVSS:3.0/E:U/RL:O/RC:C)
VPR Score
5.2
CVSS v2.0 Base Score
5.0 (CVSS2#AV:N/AC:L/Au:N/C:N/I:N/A:P)
CVSS v2.0 Temporal Score
3.7 (CVSS2#E:U/RL:OF/RC:C)
STIG Severity

# References

CVE CVE-2020-8616 XREF IAVA:2020-A-0217-S

# Plugin Information

Published: 2020/05/22, Modified: 2020/06/26

# Plugin Output

# udp/53/dns

Installed version : 9.4.2
Fixed version : 9.11.19

# 42256 - NFS Shares World Readable

# 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 :  \begin{tabular}{ll} / & \star \\ \end{tabular}
```

# 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

# tcp/25/smtp

Name	Code		KEX	Auth	Encryption	MA
DES-CBC3-MD5	$0 \times 07$ , $0 \times 07$	00, 0xC0	RSA	RSA	3DES-CBC(168)	MI
EDH-RSA-DES-CBC3-SHA	0x00, 0x	c16	DH	RSA	3DES-CBC(168)	
SHA1						
ADH-DES-CBC3-SHA	0x00, 0x	¢1Β	DH	None	3DES-CBC(168)	
SHA1						
DES-CBC3-SHA	0x00, 0x	c0A	RSA	RSA	3DES-CBC(168)	
SHA1						
<pre>{Tenable ciphername} {Cipher ID code} Kex={key exchange} Auth={authentication} Encrypt={symmetric encryptic MAC={message authentication} {export flag}</pre>						

# 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

# tcp/5432/postgresql

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

        Code
        KEX
        Auth
        Encryption

        0x00, 0x16
        DH
        RSA
        3DES-CBC(168)

                                                                                                             MAC
   Name
   EDH - RSA - DES - CBC3 - SHA
 SHA1
                                                                       RSA 3DES-CBC(168)
  DES-CBC3-SHA
                                     0x00, 0x0A
                                                        RSA
 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 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.

# 11213 - HTTP TRACE / TRACK Methods Allowed

Synopsis
Debugging functions are enabled on the remote web server.
Description
The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods that are used to debug web server connections.
See Also
https://www.cgisecurity.com/whitehat-mirror/WH-WhitePaper_XST_ebook.pdf
http://www.apacheweek.com/issues/03-01-24
https://download.oracle.com/sunalerts/1000718.1.html
Solution
Disable these HTTP methods. Refer to the plugin output for more information.
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 v3.0 Temporal Score
4.6 (CVSS:3.0/E:U/RL:O/RC:C)
VPR Score
4.0
CVSS v2.0 Base Score
5.0 (CVSS2#AV:N/AC:L/Au:N/C:P/I:N/A:N)
CVSS v2.0 Temporal Score
3.7 (CVSS2#E:U/RL:OF/RC:C)
References
BID 9506

BID 9561 BID 11604 BID 33374 BID 37995 CVE CVE-2003-1567 CVE CVE-2004-2320 CVE-2010-0386 CVE XREF CERT:288308 XREF CERT:867593 XREF CWE:16 XRFF CWF:200

#### Plugin Information

Published: 2003/01/23, Modified: 2020/06/12

#### Plugin Output

#### tcp/80/www

```
To disable these methods, add the following lines for each virtual
host in your configuration file :
   RewriteEngine on
   RewriteCond %{REQUEST_METHOD} ^(TRACE|TRACK)
   RewriteRule .* - [F]
Alternatively, note that Apache versions 1.3.34, 2.0.55, and 2.2
support disabling the TRACE method natively via the 'TraceEnable'
directive.
Nessus sent the following TRACE request:
-----snip
TRACE /Nessus717150781.html HTTP/1.1
Connection: Close
Host: 192.168.50.101
Pragma: no-cache
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
Accept-Language: en
Accept-Charset: iso-8859-1,*,utf-8
----- snip
and received the following response from the remote server :
----- snip
HTTP/1.1 200 OK
Date: Mon, 05 Jun 2023 07:00:30 GMT
Server: Apache/2.2.8 (Ubuntu) DAV/2
Keep-Alive: timeout=15, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: message/http
TRACE /Nessus717150781.html HTTP/1.1
```

```
Connection: Keep-Alive
Host: 192.168.50.101
Pragma: no-cache
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
Accept-Language: en
Accept-Charset: iso-8859-1,*,utf-8

snip
```

#### 139915 - ISC BIND 9.x < 9.11.22, 9.12.x < 9.16.6, 9.17.x < 9.17.4 DoS

# Synopsis The remote name server is affected by a denial of service vulnerability. Description According to its self-reported version number, the installation of ISC BIND running on the remote name server is version 9.x prior to 9.11.22, 9.12.x prior to 9.16.6 or 9.17.x prior to 9.17.4. It is, therefore, affected by a denial of service (DoS) vulnerability due to an assertion failure when attempting to verify a truncated response to a TSIG-signed request. An authenticated, remote attacker can exploit this issue by sending a truncated response to a TSIG-signed request to trigger an assertion failure, causing the server to exit. Note that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number. See Also https://kb.isc.org/docs/cve-2020-8622 Solution Upgrade to BIND 9.11.22, 9.16.6, 9.17.4 or later. Risk Factor Medium CVSS v3.0 Base Score 6.5 (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H) CVSS v3.0 Temporal Score 5.7 (CVSS:3.0/E:U/RL:O/RC:C) **VPR** Score 3.6 CVSS v2.0 Base Score 4.0 (CVSS2#AV:N/AC:L/Au:S/C:N/I:N/A:P) CVSS v2.0 Temporal Score 3.0 (CVSS2#E:U/RL:OF/RC:C)

# STIG Severity

ı

# References

CVE CVE-2020-8622 XREF IAVA:2020-A-0385-S

# Plugin Information

Published: 2020/08/27, Modified: 2021/06/03

# Plugin Output

udp/53/dns

Installed version: 9.4.2

Fixed version : 9.11.22, 9.16.6, 9.17.4 or later

# 136808 - ISC BIND Denial of Service

# Synopsis The remote name server is affected by an assertion failure vulnerability. Description A denial of service (DoS) vulnerability exists in ISC BIND versions 9.11.18 / 9.11.18-S1 / 9.12.4-P2 / 9.13 / 9.14.11 / 9.15 / 9.16.2 / 9.17 / 9.17.1 and earlier. An unauthenticated, remote attacker can exploit this issue, via a specially-crafted message, to cause the service to stop responding. Note that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number. See Also https://kb.isc.org/docs/cve-2020-8617 Solution Upgrade to the patched release most closely related to your current version of BIND. Risk Factor Medium CVSS v3.0 Base Score 5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H) CVSS v3.0 Temporal Score 5.3 (CVSS:3.0/E:P/RL:O/RC:C) **VPR Score** 5.1 CVSS v2.0 Base Score 4.3 (CVSS2#AV:N/AC:M/Au:N/C:N/I:N/A:P) CVSS v2.0 Temporal Score 3.4 (CVSS2#E:POC/RL:OF/RC:C) STIG Severity

## References

CVE CVE-2020-8617 XREF IAVA:2020-A-0217-S

## Plugin Information

Published: 2020/05/22, Modified: 2023/03/23

## Plugin Output

udp/53/dns

Installed version : 9.4.2
Fixed version : 9.11.19

## 57608 - SMB Signing not required

## 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 4	6767
CVE C	VE-2011-0411
CVE C	VE-2011-1430
CVE C	VE-2011-1431
CVE C	VE-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
```

## 90317 - SSH Weak Algorithms Supported

## 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
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: 2021/02/03

# Plugin Output

# tcp/25/smtp

Low Strength Ciphers (<= 64	-bit key)				
Name	Code	KEX	Auth	Encryption	IV.
EXP-ADH-DES-CBC-SHA HA1 export	0x00, 0x19	DH(512)	None	DES-CBC(40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH(512)	None	RC4(40)	M
ADH-DES-CBC-SHA HA1	0x00, 0x1A	DH	None	DES-CBC(56)	
Medium Strength Ciphers (>	64-bit and < 112-	bit key, or 3DE	S)		
Name	Code	KEX	Auth		M
ADH - DES - CBC3 - SHA HA1	0x00, 0x1B	DH	None	3DES-CBC(168)	
High Strength Ciphers (>= 1	12-bit key)				
Name	Code	KEX	Auth	Encryption	M
ADH-AES128-SHA HA1	0x00, 0x34	DH	None	AES-CBC(128)	
	0x00, 0x3A	DH	None	AES-CBC(256)	
ADH-AES256-SHA HA1					
ADH-AES256-SHA HA1 ADH-RC4-MD5	0x00, 0x18	DH	None	RC4 (128)	IV.
HA1	0x00, 0x18	DH	None	RC4 (128)	Þ
HA1 ADH-RC4-MD5	0x00, 0x18	DH	None	RC4 (128)	Iv

192.168.50.101 44

## 51192 - SSL Certificate Cannot Be Trusted

## Synopsis

The SSL certificate for this service cannot be trusted.

## Description

The server's X.509 certificate cannot be trusted. This situation can occur in three different ways, in which the chain of trust can be broken, as stated below:

- First, the top of the certificate chain sent by the server might not be descended from a known public certificate authority. This can occur either when the top of the chain is an unrecognized, self-signed certificate, or when intermediate certificates are missing that would connect the top of the certificate chain to a known public certificate authority.
- Second, the certificate chain may contain a certificate that is not valid at the time of the scan. This can occur either when the scan occurs before one of the certificate's 'notBefore' dates, or after one of the certificate's 'notAfter' dates.
- Third, the certificate chain may contain a signature that either didn't match the certificate's information or could not be verified. Bad signatures can be fixed by getting the certificate with the bad signature to be re-signed by its issuer. Signatures that could not be verified are the result of the certificate's issuer using a signing algorithm that Nessus either does not support or does not recognize.

If the remote host is a public host in production, any break in the chain makes it more difficult for users to verify the authenticity and identity of the web server. This could make it easier to carry out man-in-the-middle attacks against the remote host.

#### See Also

https://www.itu.int/rec/T-REC-X.509/en

https://en.wikipedia.org/wiki/X.509

#### Solution

Purchase or generate a proper SSL certificate for this service.

#### Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

Published: 2010/12/15, Modified: 2020/04/27

## Plugin Output

#### tcp/25/smtp

```
The following certificate was part of the certificate chain sent by the remote host, but it has expired:

|-Subject : C=XX/ST=There is no such thing outside US/L=Everywhere/0=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain
|-Not After : Apr 16 14:07:45 2010 GMT

The following certificate was at the top of the certificate chain sent by the remote host, but it is signed by an unknown certificate authority:

|-Subject : C=XX/ST=There is no such thing outside US/L=Everywhere/0=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain
|-Issuer : C=XX/ST=There is no such thing outside US/L=Everywhere/0=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain
```

## 51192 - SSL Certificate Cannot Be Trusted

## **Synopsis**

The SSL certificate for this service cannot be trusted.

## Description

The server's X.509 certificate cannot be trusted. This situation can occur in three different ways, in which the chain of trust can be broken, as stated below:

- First, the top of the certificate chain sent by the server might not be descended from a known public certificate authority. This can occur either when the top of the chain is an unrecognized, self-signed certificate, or when intermediate certificates are missing that would connect the top of the certificate chain to a known public certificate authority.
- Second, the certificate chain may contain a certificate that is not valid at the time of the scan. This can occur either when the scan occurs before one of the certificate's 'notBefore' dates, or after one of the certificate's 'notAfter' dates.
- Third, the certificate chain may contain a signature that either didn't match the certificate's information or could not be verified. Bad signatures can be fixed by getting the certificate with the bad signature to be re-signed by its issuer. Signatures that could not be verified are the result of the certificate's issuer using a signing algorithm that Nessus either does not support or does not recognize.

If the remote host is a public host in production, any break in the chain makes it more difficult for users to verify the authenticity and identity of the web server. This could make it easier to carry out man-in-the-middle attacks against the remote host.

#### See Also

https://www.itu.int/rec/T-REC-X.509/en

https://en.wikipedia.org/wiki/X.509

#### Solution

Purchase or generate a proper SSL certificate for this service.

#### Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

Published: 2010/12/15, Modified: 2020/04/27

## Plugin Output

## tcp/5432/postgresql

```
The following certificate was part of the certificate chain sent by the remote host, but it has expired:

|-Subject : C=XX/ST=There is no such thing outside US/L=Everywhere/O=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain
|-Not After : Apr 16 14:07:45 2010 GMT

The following certificate was at the top of the certificate chain sent by the remote host, but it is signed by an unknown certificate authority:

|-Subject : C=XX/ST=There is no such thing outside US/L=Everywhere/O=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain
|-Issuer : C=XX/ST=There is no such thing outside US/L=Everywhere/O=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain
```

## 15901 - SSL Certificate Expiry

## **Synopsis**

The remote server's SSL certificate has already expired.

## Description

This plugin checks expiry dates of certificates associated with SSL- enabled services on the target and reports whether any have already expired.

#### Solution

Purchase or generate a new SSL certificate to replace the existing one.

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 v2.0 Base Score

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

## Plugin Information

Published: 2004/12/03, Modified: 2021/02/03

#### Plugin Output

## tcp/25/smtp

```
The SSL certificate has already expired:

Subject : C=XX, ST=There is no such thing outside US, L=Everywhere, O=OCOSA, OU=Office for Complication of Otherwise Simple Affairs, CN=ubuntu804-base.localdomain, emailAddress=root@ubuntu804-base.localdomain

Issuer : C=XX, ST=There is no such thing outside US, L=Everywhere, O=OCOSA, OU=Office for Complication of Otherwise Simple Affairs, CN=ubuntu804-base.localdomain, emailAddress=root@ubuntu804-base.localdomain

Not valid before : Mar 17 14:07:45 2010 GMT

Not valid after : Apr 16 14:07:45 2010 GMT
```

## 15901 - SSL Certificate Expiry

## Synopsis

The remote server's SSL certificate has already expired.

## Description

This plugin checks expiry dates of certificates associated with SSL- enabled services on the target and reports whether any have already expired.

#### Solution

Purchase or generate a new SSL certificate to replace the existing one.

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 v2.0 Base Score

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

## Plugin Information

Published: 2004/12/03, Modified: 2021/02/03

#### Plugin Output

## tcp/5432/postgresql

```
The SSL certificate has already expired:

Subject : C=XX, ST=There is no such thing outside US, L=Everywhere, O=OCOSA, OU=Office for Complication of Otherwise Simple Affairs, CN=ubuntu804-base.localdomain, emailAddress=root@ubuntu804-base.localdomain

Issuer : C=XX, ST=There is no such thing outside US, L=Everywhere, O=OCOSA, OU=Office for Complication of Otherwise Simple Affairs, CN=ubuntu804-base.localdomain, emailAddress=root@ubuntu804-base.localdomain

Not valid before : Mar 17 14:07:45 2010 GMT

Not valid after : Apr 16 14:07:45 2010 GMT
```

## 45411 - SSL Certificate with Wrong Hostname

Synopsis

The SSL certificate for this service is for a different host.

Description

The 'commonName' (CN) attribute of the SSL certificate presented for this service is for a different machine.

Solution

Purchase or generate a proper SSL certificate for this service.

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 v2.0 Base Score

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

Plugin Information

Published: 2010/04/03, Modified: 2020/04/27

Plugin Output

tcp/25/smtp

```
The identities known by Nessus are:

192.168.50.101

192.168.50.101

The Common Name in the certificate is:

ubuntu804-base.localdomain
```

## 45411 - SSL Certificate with Wrong Hostname

**Synopsis** 

The SSL certificate for this service is for a different host.

Description

The 'commonName' (CN) attribute of the SSL certificate presented for this service is for a different machine.

Solution

Purchase or generate a proper SSL certificate for this service.

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 v2.0 Base Score

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

Plugin Information

Published: 2010/04/03, Modified: 2020/04/27

Plugin Output

tcp/5432/postgresql

```
The identities known by Nessus are:

192.168.50.101
192.168.50.101

The Common Name in the certificate is:

ubuntu804-base.localdomain
```

# 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)
                             Code KEX Auth Encryption
   EXP-RC2-CBC-MD5
                           0x04, 0x00, 0x80 RSA(512)
                                                       RSA
                                                              RC2-CBC(40)
     export
                           0x02, 0x00, 0x80 RSA(512) RSA RC4(40)
   EXP-RC4-MD5
                                                                                   MD5
    export
 High Strength Ciphers (>= 112-bit key)
                             KEX
                                                     Auth Encryption
   Name
                             Code
                                                                                    MAC
   RC4-MD5
                             0x01, 0x00, 0x80 RSA
                                                       RSA
                                                               RC4 (128)
The fields above are :
 {Tenable ciphername}
 {Cipher ID code}
 Kex={key exchange}
 Auth={authentication}
 Encrypt={symmetric encryption method}
 MAC={message authentication code}
 {export flag}
```

## 65821 - SSL RC4 Cipher Suites Supported (Bar Mitzvah)

## 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

3.6

CVSS v2.0 Base Score

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

#### 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)
                                                       Auth Encryption
                              Code KEX
                              Code
   Name
                                                                                       MAC
                                                         RSA
                             0x02, 0x00, 0x80 RSA(512)
   EXP-RC4-MD5
                                                                  RC4(40)
                                                                                       MD5
     export
   EXP-ADH-RC4-MD5
                            0x00, 0x17
                                                         None RC4(40)
                                            DH(512)
                                                                                      MD5
     export
                            0x00, 0x03 RSA(512)
                                                         RSA RC4(40)
   EXP-RC4-MD5
                                                                                       MD5
    export
 High Strength Ciphers (>= 112-bit key)
                                                       Auth Encryption
                              KEX
   Name
                              Code
                                                                                       MAC
                                                        RSA RC4(128)
                              0x01, 0x00, 0x80 RSA
   RC4-MD5
                                                                                       MD5
                                                       None RC4 (128)
RSA RC4 (128)
RSA RC4 (128)
                             0x00, 0x18 DH
0x00, 0x04 RSA
0x00, 0x05 RSA
   ADH-RC4-MD5
                                                                                       MD5
   RC4-MD5
   RC4 - SHA
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}
```

## 65821 - SSL RC4 Cipher Suites Supported (Bar Mitzvah)

## 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

3.6

CVSS v2.0 Base Score

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

#### 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/5432/postgresql

```
List of RC4 cipher suites supported by the remote server :
 High Strength Ciphers (>= 112-bit key)
                                                       Auth Encryption
                                         KEX
                              Code
   Name
                                                                                         MAC
                                                          RSA RC4 (128)
   RC4 - SHA
                              0x00, 0x05
                                             RSA
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}
```

## 57582 - SSL Self-Signed Certificate

## Synopsis

The SSL certificate chain for this service ends in an unrecognized self-signed certificate.

## Description

The X.509 certificate chain for this service is not signed by a recognized certificate authority. If the remote host is a public host in production, this nullifies the use of SSL as anyone could establish a man-in-the-middle attack against the remote host.

Note that this plugin does not check for certificate chains that end in a certificate that is not self-signed, but is signed by an unrecognized certificate authority.

#### Solution

Purchase or generate a proper SSL certificate for this service.

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

Plugin Information

Published: 2012/01/17, Modified: 2022/06/14

Plugin Output

tcp/25/smtp

The following certificate was found at the top of the certificate chain sent by the remote host, but is self-signed and was not found in the list of known certificate authorities:

 $|\mbox{-Subject: C=XX/ST=There is no such thing outside US/L=Everywhere/O=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain} \\$ 

## 57582 - SSL Self-Signed Certificate

## Synopsis

The SSL certificate chain for this service ends in an unrecognized self-signed certificate.

## Description

The X.509 certificate chain for this service is not signed by a recognized certificate authority. If the remote host is a public host in production, this nullifies the use of SSL as anyone could establish a man-in-the-middle attack against the remote host.

Note that this plugin does not check for certificate chains that end in a certificate that is not self-signed, but is signed by an unrecognized certificate authority.

#### Solution

Purchase or generate a proper SSL certificate for this service.

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

Plugin Information

Published: 2012/01/17, Modified: 2022/06/14

Plugin Output

tcp/5432/postgresql

The following certificate was found at the top of the certificate chain sent by the remote host, but is self-signed and was not found in the list of known certificate authorities:

 $|\mbox{-Subject: C=XX/ST=There is no such thing outside US/L=Everywhere/O=OCOSA/OU=Office for Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-base.localdomain} \\$ 

## 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

# tcp/25/smtp

Low Strength Ciphers (<= 64-	DIC VEA)						
Name	Code			KEX	Auth	Encryption	M
EXP-RC2-CBC-MD5 export				RSA(512)			M
EXP-RC4-MD5 export	0x02,	0x00,	0x80	RSA(512)	RSA	RC4 (40)	М
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)	М
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)	М
EXP-RC4-MD5 export	0x00,	0x03		RSA(512)	RSA	RC4 (40)	М
DES-CBC-SHA SHA1	0x00,	0x09		RSA	RSA	DES-CBC(56)	
ne fields above are :							
{Tenable ciphername} {Cipher ID code}							

## 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)
                                         KEX Auth Encryption
                            Code
   Name
                                                                                   MAC
                                                               ------
                             . . . . . . . . . .
                                                      RSA DES-CBC(40)
                           0x00, 0x08
                                          RSA(512)
  EXP-DES-CBC-SHA
 SHA1 export
  EXP-RC2-CBC-MD5
                                                      RSA RC2-CBC(40)
                                                                                 MD5
                           0x00, 0x06
                                          RSA(512)
     export
                           0x00, 0x03
                                                      RSA
                                                             RC4 (40)
   EXP-RC4-MD5
                                          RSA(512)
                                                                                   MD5
     export
The fields above are :
 {Tenable ciphername}
 {Cipher ID code}
 Kex={key exchange}
 Auth={authentication}
 Encrypt={symmetric encryption method}
 MAC={message authentication code}
 {export flag}
```

## 78479 - SSLv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE)

## Synopsis

It is possible to obtain sensitive information from the remote host with SSL/TLS-enabled services.

## Description

The remote host is affected by a man-in-the-middle (MitM) information disclosure vulnerability known as POODLE. The vulnerability is due to the way SSL 3.0 handles padding bytes when decrypting messages encrypted using block ciphers in cipher block chaining (CBC) mode.

MitM attackers can decrypt a selected byte of a cipher text in as few as 256 tries if they are able to force a victim application to repeatedly send the same data over newly created SSL 3.0 connections.

As long as a client and service both support SSLv3, a connection can be 'rolled back' to SSLv3, even if TLSv1 or newer is supported by the client and service.

The TLS Fallback SCSV mechanism prevents 'version rollback' attacks without impacting legacy clients; however, it can only protect connections when the client and service support the mechanism. Sites that cannot disable SSLv3 immediately should enable this mechanism.

This is a vulnerability in the SSLv3 specification, not in any particular SSL implementation. Disabling SSLv3 is the only way to completely mitigate the vulnerability.

#### See Also

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

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

https://tools.ietf.org/html/draft-ietf-tls-downgrade-scsv-00

#### Solution

#### Disable SSLv3.

Services that must support SSLv3 should enable the TLS Fallback SCSV mechanism until SSLv3 can be disabled.

#### Risk Factor

#### Medium

#### CVSS v3.0 Base Score

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

#### CVSS v3.0 Temporal Score

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

192.168.50.101

#### **VPR** Score

5.3

## 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 70574

CVE CVE-2014-3566 XREF CERT:577193

## Plugin Information

Published: 2014/10/15, Modified: 2020/06/12

## Plugin Output

## tcp/25/smtp

Nessus determined that the remote server supports SSLv3 with at least one CBC cipher suite, indicating that this server is vulnerable.

It appears that TLSv1 or newer is supported on the server. However, the Fallback SCSV mechanism is not supported, allowing connections to be "rolled back" to SSLv3.

## 78479 - SSLv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE)

## **Synopsis**

It is possible to obtain sensitive information from the remote host with SSL/TLS-enabled services.

## Description

The remote host is affected by a man-in-the-middle (MitM) information disclosure vulnerability known as POODLE. The vulnerability is due to the way SSL 3.0 handles padding bytes when decrypting messages encrypted using block ciphers in cipher block chaining (CBC) mode.

MitM attackers can decrypt a selected byte of a cipher text in as few as 256 tries if they are able to force a victim application to repeatedly send the same data over newly created SSL 3.0 connections.

As long as a client and service both support SSLv3, a connection can be 'rolled back' to SSLv3, even if TLSv1 or newer is supported by the client and service.

The TLS Fallback SCSV mechanism prevents 'version rollback' attacks without impacting legacy clients; however, it can only protect connections when the client and service support the mechanism. Sites that cannot disable SSLv3 immediately should enable this mechanism.

This is a vulnerability in the SSLv3 specification, not in any particular SSL implementation. Disabling SSLv3 is the only way to completely mitigate the vulnerability.

#### See Also

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

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

https://tools.ietf.org/html/draft-ietf-tls-downgrade-scsv-00

#### Solution

#### Disable SSLv3.

Services that must support SSLv3 should enable the TLS Fallback SCSV mechanism until SSLv3 can be disabled.

#### Risk Factor

#### Medium

#### CVSS v3.0 Base Score

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

## CVSS v3.0 Temporal Score

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

#### **VPR** Score

5.3

## 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 70574

CVE CVE-2014-3566 XREF CERT:577193

## Plugin Information

Published: 2014/10/15, Modified: 2020/06/12

## Plugin Output

## tcp/5432/postgresql

Nessus determined that the remote server supports SSLv3 with at least one CBC cipher suite, indicating that this server is vulnerable.

It appears that TLSv1 or newer is supported on the server. However, the Fallback SCSV mechanism is not supported, allowing connections to be "rolled back" to SSLv3.

## 104743 - TLS Version 1.0 Protocol Detection

## Synopsis

The remote service encrypts traffic using an older version of TLS.

## Description

The remote service accepts connections encrypted using TLS 1.0. TLS 1.0 has a number of cryptographic design flaws. Modern implementations of TLS 1.0 mitigate these problems, but newer versions of TLS like 1.2 and 1.3 are designed against these flaws and should be used whenever possible.

As of March 31, 2020, Endpoints that aren't enabled for TLS 1.2 and higher will no longer function properly with major web browsers and major vendors.

PCI DSS v3.2 requires that TLS 1.0 be disabled entirely by June 30, 2018, except for POS POI terminals (and the SSL/TLS termination points to which they connect) that can be verified as not being susceptible to any known exploits.

#### See Also

https://tools.ietf.org/html/draft-ietf-tls-oldversions-deprecate-00

#### Solution

Enable support for TLS 1.2 and 1.3, and disable support for TLS 1.0.

#### Risk Factor

Medium

#### CVSS v3.0 Base Score

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

## CVSS v2.0 Base Score

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

## References

XREF CWE:327

#### Plugin Information

Published: 2017/11/22, Modified: 2023/04/19

#### Plugin Output

# tcp/25/smtp

 $\ensuremath{\operatorname{TLSv1}}$  is enabled and the server supports at least one cipher.

## 104743 - TLS Version 1.0 Protocol Detection

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## Description

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#### See Also

https://tools.ietf.org/html/draft-ietf-tls-oldversions-deprecate-00

#### Solution

Enable support for TLS 1.2 and 1.3, and disable support for TLS 1.0.

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

References

XREF CWE:327

Plugin Information

Published: 2017/11/22, Modified: 2023/04/19

Plugin Output