

meta

Report generated by Nessus™

Sat, 03 Jun 2023 08:52:31 EDT

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192.168.50.101



Scan Information

Start time: Sat Jun 3 08:22:40 2023 End time: Sat Jun 3 08:52:31 2023

Host Information

Netbios Name: METASPLOITABLE IP: 192.168.50.101

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)

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: 2023/05/31

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
                                                                   ..keep-alive...A
          63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 00 00
                                                                   ccept-Language..
0 \times 0050:
0x0060: 0E 65 6E 2D 55 53 2C 65 6E 3B 71 3D 30 2E 35 00
                                                                   .en-US, en; q=0.5.
0x0070: A0 08 00 01 30 00 00 0F 41 63 63 65 70 74 2D 45
                                                                   ....0...Accept-E
0x0080: 6E 63 6F 64 69 6E 67 00 00 13 67 7A 69 70 2C 20 0x0090: 64 65 66 6C 61 74 65 2C 20 73 64 63 68 00 00 0D
                                                                   ncoding...gzip,
                                                                   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 0x00D0: 49 6E 73 65 63 75 72 65 2D 52 65 71 75 65 73 74
                                                                   zilla...Upgrade-
                                                                   Insecure-Request
0x00E0: 73 00 00 01 31 00 A0 01 00 09 74 65 78 74 2F 68
                                                                   \texttt{s...1.....} \texttt{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 0x0130: 76 61 78 2E 73 65 72 76 6C 65 74 2E 69 6E 63 6C
                                                                   st_uri...1....ja
                                                                   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
..."javax.servle
                                                                   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

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

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

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/postgresql

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

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

 - initrd.img
 lib
 lost+found
 media
 - mnt
 - mnt 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

ср/23/3111ср					
- SSLv2 is enabled and the serv	ver supports at 1	east one ciphe:	r.		
Low Strength Ciphers (<= 64-)	oit 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	1-bit and < 112-b	it key, or 3DE	S)		
Name	Code	KEX	Auth	Encryption	MAC
DES-CBC3-MD5		RSA	RSA	3DES-CBC(168)	MD5
High Strength Ciphers (>= 112	2-bit key)				
Name	Code	KEX	Auth	Encryption	MAC
RC4-MD5		RSA	RSA	RC4 (128)	MD5
The fields above are :					
{Tenable ciphername} {Cipher ID code} Kex={key exchange} Auth={authentication} Encrypt={symmetric encryption} MAC={message authentication of {export flag}					
- SSLv3 is enabled and the servex Explanation: TLS 1.0 and SSL 3					
Low Strength Ciphers (<= 64-)	oit key)				
Name	Code	KEX	Auth	Encryption	MAC
EXP-EDH-RSA-DES-CBC-SHA		DH(512)	RSA	DES-CBC(40)	
SHA1 export EDH-RSA-DES-CBC-SHA []		DH	RSA	DES-CBC(56)	SHA

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

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)
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
I
References
192 168 50 101

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 :

/ *

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)

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	kev.	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)	
S	HA1					
	ADH-DES-CBC3-SHA	0x00, 0x1B	DH	None	3DES-CBC(168)	
S	HA1					
	DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC(168)	
C	u л 1					

The fields above are :

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

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

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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)

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/5432/postgresql

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

	Name	Code	KEX	Auth	Encryption	MAC
	EDH-RSA-DES-CBC3-SHA	0x00, 0x16	DH	RSA	3DES-CBC(168)	
SH	A1					
	DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC(168)	
SH	A1					

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)

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)

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 CVE-2010-0386
XREF CERT:288308
XREF CERT:867593
XREF CWE:16

Plugin Information

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

CWE:200

Plugin Output

XREF

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 /Nessus762809883.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: Sat, 03 Jun 2023 12:32:15 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 /Nessus762809883.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, */*
```

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

Synopsis The remo

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)

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

i

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) 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 Т 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

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
```

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
arcfour
arcfour128
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)

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

CVE CVE-2007-1858

Plugin Information

Plugin Output

tcp/25/smtp

Low Strength Ciphers (<= 64	-bit key)				
Name	Code	KEX	Auth	Encryption	N
	000 010			DEG CDG (AA)	
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)	M
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC(56)	
Medium Strength Ciphers (>	64-bit and < 11	2-bit key, or 3DE	S)		
Name	Code	KEX	Auth	Encryption	N
ADH-DES-CBC3-SHA SHA1	0x00, 0x1B		None		
High Strength Ciphers (>= 1	_	KEX	Auth	Encryption	N
Name	Code	KEX	Auth 	Encryption	
Name ADH-AES128-SHA	Code				
Name ADH-AES128-SHA SHA1 ADH-AES256-SHA	Code	 DH		AES-CBC(128)	
Name ADH-AES128-SHA SHA1 ADH-AES256-SHA	Code 0x00, 0x34	DH DH	None	AES-CBC(128) AES-CBC(256)	
Name ADH-AES128-SHA SHA1 ADH-AES256-SHA SHA1 ADH-AES256-SHA	Code 0x00, 0x34 0x00, 0x3A	DH DH	None None	AES-CBC(128) AES-CBC(256)	
Name ADH-AES128-SHA SHA1 ADH-AES256-SHA SHA1 ADH-AES256-SHA	Code 0x00, 0x34 0x00, 0x3A	DH DH	None None	AES-CBC(128) AES-CBC(256)	
Name ADH-AES128-SHA SHA1 ADH-AES256-SHA SHA1 ADH-RC4-MD5 he fields above are : {Tenable ciphername}	Code 0x00, 0x34 0x00, 0x3A 0x00, 0x18	DH DH	None None	AES-CBC(128) AES-CBC(256)	<u>M</u>

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/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-

192.168.50.101 46

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-

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
```