



Metasploitable Advance

Report generated by Nessus™

Sat, 03 Jun 2023 17:03:42 EDT

192.168.50.102



Scan Information

Start time: Sat Jun 3 16:40:26 2023
End time: Sat Jun 3 17:03:42 2023

Host Information

Netbios Name: METASPLOITABLE
IP: 192.168.50.102
MAC Address: 08:00:27:02:B2:FA
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?5eafcfc70>

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: 2023/05/31

Plugin Output

tcp/8009/ajp13

192.168.50.102

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 2E 6A 73 70 00 00 asdf/xxxxxx.jsp..  
0x0020: 09 6C 6F 63 61 6C 68 6F 73 74 00 FF FF 00 09 6C .localhost.....1  
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  
0x0050: 63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 00 00 ccept-Language..  
0x0060: 0E 65 6B 2D 55 53 2C 65 6E 3B 71 3D 30 2B 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 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  
0x00E0: 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 tml.....localhos  
0x0100: 74 00 0A 00 21 6A 61 76 61 78 2E 73 65 72 76 6C 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....ja  
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

```
Nessus was able to execute the command "id" using the
following request :
```

```
This produced the following truncated output (limited to 10 lines) :
----- snip -----
root@metasploitable:/# uid=0(root) gid=0(root) groups=0(root)
root@metasploitable:/#
----- snip -----
```

32314 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness

Synopsis

The remote SSH host keys are weak.

Description

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

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

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

See Also

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

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

Solution

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

Risk Factor

Critical

VPR Score

7.4

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

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

Exploitable With

Core Impact (true)

Plugin Information

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

Plugin Output

tcp/22/ssh

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 particular, all SSH, SSL and OpenVPN key material should be re-generated.

Risk Factor

Critical

VPR Score

7.4

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

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

Exploitable With

Core Impact (true)

Plugin Information

Published: 2008/05/15, 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 particular, all SSH, SSL and OpenVPN key material should be re-generated.

Risk Factor

Critical

VPR Score

7.4

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

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

Exploitable With

Core Impact (true)

Plugin Information

Published: 2008/05/15, 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

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-1999-0170
CVE-1999-0211
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 or / :  
- .  
- ..  
- bin  
- boot  
- cdrom  
- dev  
- etc  
- home  
- initrd  
- initrd.img  
- lib  
- lost+found  
- media  
- mnt  
- nohup.out  
- opt  
- proc  
- root  
- sbin  
- srv  
- sys  
- tmp  
- usr  
- var  
- vmlinuz
```

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

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

Low Strength Ciphers (<= 64-bit key)

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

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

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

High Strength Ciphers (>= 112-bit key)

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

The fields above are :

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

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

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

Low Strength Ciphers (<= 64-bit key)

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

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)

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

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
DHE-RSA-AES128-SHA		DH	RSA	AES-CBC(128)	
SHA1					
DHE-RSA-AES256-SHA		DH	RSA	AES-CBC(256)	
SHA1					
AES128-SHA		RSA	RSA	AES-CBC(128)	
SHA1					
AES256-SHA		RSA	RSA	AES-CBC(256)	
SHA1					
RC4-SHA		RSA	RSA	RC4(128)	
SHA1					

The fields above are :

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

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 :
```

```
/ *
```

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

Synopsis

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

Description

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

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

See Also

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

<https://sweet32.info>

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

VPR Score

6.1

CVSS v2.0 Base Score

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

References

CVE CVE-2016-2183

Plugin Information

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

Plugin Output

tcp/25/smtp

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

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

The fields above are :

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

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

Synopsis

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

Description

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

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

See Also

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

<https://sweet32.info>

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

VPR Score

6.1

CVSS v2.0 Base Score

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

References

CVE CVE-2016-2183

Plugin Information

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

Plugin Output

tcp/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)	
SHA1					
DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC(168)	
SHA1					

The fields above are :

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

90509 - Samba Badlock Vulnerability

Synopsis

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

Description

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

See Also

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

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v3.0 Temporal Score

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

VPR Score

6.7

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

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

Plugin Information

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

Plugin Output

tcp/445/cifs

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

11213 - HTTP TRACE / TRACK Methods Allowed

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

136808 - ISC BIND Denial of Service

57608 - SMB Signing not required

52611 - SMTP Service STARTTLS Plaintext Command Injection

90317 - SSH Weak Algorithms Supported

31705 - SSL Anonymous Cipher Suites Supported

51192 - SSL Certificate Cannot Be Trusted

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15901 - SSL Certificate Expiry

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45411 - SSL Certificate with Wrong Hostname

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

65821 - SSL RC4 Cipher Suites Supported (Bar Mitzvah)

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57582 - SSL Self-Signed Certificate

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26928 - SSL Weak Cipher Suites Supported

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

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

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104743 - TLS Version 1.0 Protocol Detection

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70658 - SSH Server CBC Mode Ciphers Enabled

153953 - SSH Weak Key Exchange Algorithms Enabled

71049 - SSH Weak MAC Algorithms Enabled

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

10407 - X Server Detection