

# Metasploitable2

Report generated by Nessus™

Thu, 01 Jun 2023 06:53:36 EDT

TABLE	OF CONTENTS
Vulnerabilities by Host	
• 192.168.50.101	4





# 192.168.50.101

12	7	26	5	138
CRITICAL	HIGH	MEDIUM	LOW	INFO

# Scan Information

Start time: Thu Jun 1 06:33:50 2023 End time: Thu Jun 1 06:53:36 2023

#### Host Information

Netbios Name: METASPLOITABLE
IP: 192.168.50.101
MAC Address: 08:00:27:B1:D8:AE

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
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 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 [...]
```

# 171340 - Apache Tomcat Web Server SEoL (<= 5.5.x)

# Synopsis

The remote web server is obsolete / unsupported.

# Description

According to its version, the Apache Tomcat web server is 5.5.x or earlier. It is, therefore, longer maintained by its vendor or provider.

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

#### See Also

https://tomcat.apache.org/

https://tomcat.apache.org/tomcat-55-eol.html

#### Solution

Remove the web server if it is no longer needed. Otherwise, upgrade to a supported version if possible or switch to another server.

#### Risk Factor

High

# 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

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

#### Plugin Information

Published: 2023/02/10, Modified: 2023/03/21

# Plugin Output

# tcp/8180/www

```
URL : http://192.168.50.101:8180/
Installed version : 5.5
Security End of Life : August 10, 2011
Time since Security End of Life (Est.) : 11 Years, 9 Months, 28 Days | 4313 Total Days
```

# 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
```

# 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 serval and s	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".

# 10203 - rexecd Service Detection

tcp/512/rexecd

# Synopsis The rexecd service is running on the remote host. Description The rexecd service is running on the remote host. This service is design to allow users of a network to execute commands remotely. However, rexecd does not provide any good means of authentication, so it may be abused by an attacker to scan a third-party host. Solution Comment out the 'exec' line in /etc/inetd.conf and restart the inetd process. Risk Factor Critical **VPR** Score 6.7 CVSS v2.0 Base Score 10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C) References CVE CVE-1999-0618 Plugin Information Published: 1999/08/31, Modified: 2018/08/13 Plugin Output

# 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	$0 \times 07$ ,	0x00, 0xC0	RSA	RSA	3DES-CBC(168)	MI
EDH-RSA-DES-CBC3-SHA	0x00,	0x16	DH	RSA	3DES-CBC(168)	
HA1						
ADH-DES-CBC3-SHA	0x00,	0x1B	DH	None	3DES-CBC(168)	
HA1						
DES-CBC3-SHA	0x00,	0x0A	RSA	RSA	3DES-CBC(168)	
HA1	,					
<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.

# 10205 - rlogin Service Detection

**Exploitable With** 

Metasploit (true)

Plugin Information

Plugin Output

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

# Synopsis The rlogin service is running on the remote host. Description The rlogin service is running on the remote host. This service is vulnerable since data is passed between the rlogin client and server in cleartext. A man-in-the-middle attacker can exploit this to sniff logins and passwords. Also, it may allow poorly authenticated logins without passwords. If the host is vulnerable to TCP sequence number guessing (from any network) or IP spoofing (including ARP hijacking on a local network) then it may be possible to bypass authentication. Finally, rlogin is an easy way to turn file-write access into full logins through the .rhosts or rhosts.equiv files. Solution Comment out the 'login' line in /etc/inetd.conf and restart the inetd process. Alternatively, disable this service and use SSH instead. Risk Factor High **VPR Score** 6.7 CVSS v2.0 Base Score 7.5 (CVSS2#AV:N/AC:L/Au:N/C:P/I:P/A:P) References CVF CVF-1999-0651

tcp/513/rlogin

# 10245 - rsh Service Detection

# Synopsis

The rsh service is running on the remote host.

# Description

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

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

#### Solution

tcp/514/rsh

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

Risk Factor
High

VPR Score
6.7

CVSS v2.0 Base Score
7.5 (CVSS2#AV:N/AC:L/Au:N/C:P/I:P/A:P)

References

CVE CVE-1999-0651

Exploitable With

Metasploit (true)

Plugin Information

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

Plugin Output

# 12085 - Apache Tomcat Default Files

# Synopsis

The remote web server contains default files.

# Description

The default error page, default index page, example JSPs and/or example servlets are installed on the remote Apache Tomcat server. These files should be removed as they may help an attacker uncover information about the remote Tomcat install or host itself.

#### See Also

http://www.nessus.org/u?4cb3b4dd

https://www.owasp.org/index.php/Securing\_tomcat

#### Solution

Delete the default index page and remove the example JSP and servlets. Follow the Tomcat or OWASP instructions to replace or modify the default error page.

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

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

Plugin Information

Published: 2004/03/02, Modified: 2019/08/12

Plugin Output

# tcp/8180/www

The following default files were found :

http://192.168.50.101:8180/tomcat-docs/index.html

The server is not configured to return a custom page in the event of a client requesting a non-existent resource.

This may result in a potential disclosure of sensitive information about the server to attackers.

# 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 /Nessus543805175.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: Thu, 01 Jun 2023 10:38:28 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 /Nessus543805175.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
```