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Metasploitable2

Report generated by NessusTM Thu, 01 Jun 2023 08:12:22 ED

Vulnerabilities by Host

192.168.32.105

12	6	26		139
CRITICAL	HIGH	MEDIUM	LOW	INFO

Scan Information

Start time: Thu Jun 1 07:00:06 2023 End time: Thu Jun 1 08:12:22 2023

Host Information

 Nethios
 Name:
 METASPLOITABLE

 IP:
 192.168.32.105

 MAC Address:
 08:00:27:98:12:F6

OS: Linux Kernel 2.6 on Ubuntu 8.04 (hardy)

Vulnerabilities

134862 - Apache Tomcat A JP 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 A JP 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 Javasacraer. Pages (JSP) code within a variety of file types and gain remote code execution.

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) Plugin Output tcp/8009/ajp13

171340 - Apache TomcatWeb Server SEoL (<= 5.5.x)

Synonsis

The remote web server is obsolete / unsupported.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.

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#A V: N/A C:L/A u:N/C: P/I: P/A: P)

Plugin Output

tcp/8180/www

```
URL : http://192.168.32.105:8180/
Installed version : 5.5
Security End of Life : Auqust 10, 2011
Time since Security End of Life (Est.) : 11 Years, 9 Months, 26 Days | 4311 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 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

tootEmetasploitable:/# wid-0(root) gid-0(root) groups-0(root)

rootEmetasploitable:/#
```

32314 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness

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.

Solution

Consider all cryptographic material generated on the remote host to be guessable. In particular, all SSH, SSL and OpenVEN, 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)

Exploitable With

Core Impact (true)

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.

Solution

Consider all cryptographic material generated on the remote host to be guessable. In particuliar, all SSH, SSL and QrenXPN, 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)

Exploitable With
Core Impact (true)
Plugic Output
tsp/25/smtp
32321 - Dehian 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 <u>Debian</u> or <u>Ubuntu</u> system which contains a bug in the random number generator of its <u>OpenSSL</u> library.
The problem is due to a Dehian 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.
Solution
Consider all cryptographic material generated on the remote host to be guessable. In particuliar, all SSH, SSL and OpenXEN key material should be re-generated.
Risk Factor
Critical
VPR Score
7.4
CVSSv2.0 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)
Exploitable With
Core Impact (true)
Plugin Output
trp/5432/postgresg

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/AWN/C:C/I:C/A:C)
Elugin Output ydp/2049/ms;nfs
The following NFS shares could be mounted:
+ Contents of /: bin

```
+ Contents of /:
----
- bin
- boot
- cdrow
- dev
- etc
- home
- witted
- initrd.img
- lib
- loatstound
- media
- wit
- volum.out
- opt
- proc
- root
- sbin
- skx
- sys
- usk
- wit
```

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

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'.

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/A V: N/A C: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 Output

tcp/25/smtp

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

Low Strength Ciphers (<- 64-bit key)

Name EXP-RC2-CBC-MD5 export EXP-RC4-MD5 export	Code	RSA (512)	Auth RSA RSA	Encryption RC2-CBC(40) RC4(40)	MAC MD5 MD5
Medium Strength Ciphers Name DES-CBC3-MD5	(> 64-bit and < 112-b	eit key, or 3DES KEX RSA	Auth	Encryption 3DES-CBC (168)	MAC MD5
High Strength Ciphers (:	>= 112-bit key) Code	KEX	Auth	Encryption	MAC
RC4-MD5		RSA	RSA	RC4 (128)	MD5

The fields above are :

[Tenable ciphername] [Cipher ID code] [Kax-[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

	,				
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
[]					

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

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'.

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/A V: N/A C: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 Output

tcp/5432/postgresgl

- 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)

EDH-RSA-DES-CBC3-SHA		DH	RSA	3DES-CBC (168)	
SHA1					
DES-CBC3-SHA		RSA	RSA	3DES-CBC (168)	
SHA1					
High Strength Ciphers (>- 11	2-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 ciples name]
[Cipher ID code]
[Ext-[key exchange]
Auth-[authentication]
Encrypt-[symmetric encryption method]
MAC-[message authentication code]
[export flaq]

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)

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 Output

tcp/5900/vnc

Negana logged in using a password of "password".

10203 - rexead Service Detection Synopsis The rexect service is running on the remote host. Description The rexect service is running on the remote host. This service is design to allow users of a network to execute commands remotely. However, rexect 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 CVSS v2.0 Base Score 10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C) Plugin Output tcp/512/rexecd 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.

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.

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/U:N/S:C/C:N/EN/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/AuxX, C:N/EN/A:F)

CVSS v2.0 Temporal Score

3.7 (CVSS2#EU/RL:OF/RC:C)

STIG Severity

Plugin Output

udp/53/dns

Installed version: 9.4.2 Pixed 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).

Solution

Place the appropriate restrictions on all NFS shares.

Risk Factor

Medium

CVSS v3.0 Base Score

7.5 (CVSS:3.0/A V: 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 Output

tcp/2049/rpc-nfs

The following shares have no access restrictions:

1.

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.

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/A V: 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#A V: N / A C: L / A u: N / C: P / I: N / A: N)

Plugin Information

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

tsp/25/smtp

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

Name Code KEX Auth Encryption MAC

DES-CBC3-MD5 0x07, 0x00, 0xCC RSA RSA 3DES-CBC(168) MD5
EDH-RSA-DES-CBC3-SHA 0x00, 0x16 DH RSA 3DES-CBC(168)
SHAI
ADH-DES-CBC3-SHA 0x00, 0x1B DH None 3DES-CBC(168)
SHAI
DES-CBC3-SHA 0x00, 0x0A RSA RSA 3DES-CBC(168)
SHAI
The fields above are :

[Tenable ciphersaums]
[Cipher ID code]
Eox-[key exchange]
Auth-[authentication]
Encrypt-[symmetric encryption method]
MMC-[message authentication code]
[export flaq]
[export flaq]

42873 - SSI 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.

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/A V: 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#A V:N /A C:L/A u:N/C: P/I: N/A:N)

Plugin Output

tcp/5432/postgresgl

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 ciphersauxa]
[Cipher ID code]

Exc.[key exchange]
Auth-[authentication]
Encrypt-[symmetric encryption method]

MAC-[message authentication code]
[export flaq]

Synopsis An SMB server running on the remote host is affected by the <code>8adlock</code> 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 <code>Badlock</code> 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. Solution Upgrade to Samba version 4.2.11 / 4.3.8 / 4.4.2 or later. Risk Factor Medium CVSS v3.0 Base Score

VPR Score

6.7

CVSS v2.0 Base Score

CVSS v3.0 Temporal Score 6.5 (CVSS:3.0/E:U/RL:O/RC:C)

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

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

CVSS v2.0 Temporal Score

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

Plugin Output

tcp/445/cifs

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

10205 - rlogin Service Detection

Synopsis

The rlogin service is running on the remote host.

Description

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

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

Solution

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

High

VPR Score

6.7

CVSS v2.0 Base Score

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

Exploitable With

Metasploit (true)

12085 - Apache Tomcat Default Files

Synopsis

The remote web server contains default files.

Description

tcp/513/rlogin

The default error page, default index page, example JSPs and/or example seculets 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.

Solution

Delete the default index page and remove the example JSP and septlets. 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/A V: N/A C:L/PR: N/UI: N/S:U/C:L/I:N/A:N)

CVSS v2.0 Base Score

5.0 (CVSS2#A V:N /A C:L/A u:N /C:P/I: N/A:N)

Plugin Output

tcp/8180/www

The following default files were found :

http://192.168.32.105:8180/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.
Solution
Disable these HTTP methods. Refer to the plugin output for more information.
Medium
CVSS v3.0 Base Score
5.3 (CVSS:3.0/A V: N/A C: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
CVSS v2.0 Base Score
5.0 (CVSS2#A V:N /A C:L/A.u:N/C:P/I:N/A:N)
CVSS v2.0 Temporal Score
3.7 (CVSS2#E:U /RL: OF /RC: C)
Plugin Output
tcp/80/www
  To disable these methods, add the following lines for each virtual host in your configuration file:
       BancitaRogias on BancitaCood %[REQUEST_METHOD] ^(TRACE|TRACK) BancitaRola .* - [F]
  Alternatively, note that Apache versions 1.3.34, 2.0.55, and 2.2 support disabling the TRACE method natively via the 'TraceFauble' directive.
  Negsing sent the following TRACE request :
  TRACE /Nessus1275599506.html HTTP/1.1
  Connection: Close
Host: 192.168.32.105
  Oscor-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: Image/gif, image/x-gitton; image/jpeg, image/giton; image/for, */*
Accept-Language: en
  Accept-Charges: iso-8859-1,*,utf-8
  ..... snip...
  and received the following response from the remote server :
  HTTP/1.1 200 OK
  HTTP/1.1 200 OK
Date: Thu, 01 Jun 2023 11:07:04 CMT
Server: Apache/2.2.8 (IRantu) DAV/2
Keep-Alive: Limeout-15, max-100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: message/http
 TRACE /Nessus1275599506.html HTTP/1.1
  Examp: no-cache
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: image/gif, image/x-phitosp, image/jpeg, image/phog. */*
  Accept-Language: en
  Accept-Charges: iso-8859-1,*,utf-8
```

----- snip------

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

Synopsis
The remote name server is affected by a denial of service vulnerability.
Description
According to its self-reported version number, the installation of ISC BIND running on the remote name server is version 9.x prior to 9.11.22, 9.12.x prior to 9.16.6 or 9.17.x prior to 9.17.4. It is, therefore, affected by a denial of service (DoS) vulnerability due to an assertion failure when attempting to verify a truncated response to a TSIG-signed request. An authenticated, remote attacker can exploit this issue by sending a truncated response to a TSIG-signed request to trigger an assertion failure, causing the server to exit.
Note that Nessus, has not tested for this issue but has instead relied only on the application's self-reported version number.
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/A V:N /AC: L / PR: L / UI: N / S:U /C:N /I: N /A:H)
CVSS v3.0 Temporal Score
5.7 (CVSS:3.0/E:U/RL:O/RC:C)
VPR Score
3.6
CVSS v2.0 Base Score
4.0 (CVSS2#AV:N/AC:L/AWS/C:N/I:N/A:P)
CVSS v2.0 Temporal Score
3.0 (CVSS2#E:U /RL: OF/RC: C)
STIG Severity
Plugin Output
uda/53/dos
Installed version : 9.4.2 Fixed version : 9.11.22, 9.16.6, 9.17.4 or later

136808 - ISC RIND Denial of Service

130000 - 13C BIND Definal Of Service
Synopsis
The remote name server is affected by an assertion failure vulnerability.
Description
A denial of service (QQQ) vulnerability exists in ISC BIND versions 9.11.18 / 9.11.18-51 / 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.
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 / U:N / S:U / C:N /!: N / A:H)
CVSS v3.0 Temporal Score
5.3 (CVSS:3.0/E:P/RL:O/RC:C)
VPR Score
5.1
CVSS v2.0 Base Score
4.3 (CVSS2#AV: N / AC: M / Au; N / C: N / I: N / A: P)
CVSS v2.0 Temporal Score
3.4 (CVSS2#E: POC / RL: OF / RC: C)

Plugin Output

STIG Severity

udp/53/dns

Installed version: 9.4.2 Fixed version: 9.11.19

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. 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/A C:L/PR:N/U:N/S:U/C:N/I:L/A:N)

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

CVSS v2.0 Base Score

CVSS v3.0 Temporal Score

5.0 (CVSS2#A V:N /A C:L/A u:N /C: N/I: P/A:N)

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.

Solution

Contact the vendor to see if an update is available.

Risk Factor

Medium

VPR Score

6.3

CVSS v2.0 Base Score

4.0 (CVSS2#A V: N/AC:H/A u:N/C: P/I: P/A: N)

CVSS v2.0 Temporal Score

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

<u>Plugin</u> Output

tcp/25/smtp

```
STARTILS\r\nBSET\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 Acclour, stream cipher or no cipher at all. RFC 4253 advises against using Acclour due to an issue with weak keys.

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 Output

tcp/22/ssh

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

arcfour arcfour128

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

arcfour128

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.

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 / A V: N/A C:H / PR:N / U I:N / S:U / C:H / I: N / A:N)

CVSS v3.0 Temporal Score

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

VPR Score

3.6

CVSS v2.0 Base Score

2.6 (CVSS2#A V: N/A C:H/A u:N/C: P/I: N/A:N)

CVSS v2.0 Temporal Score

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

Plugin Output

tcp/25/smtp

he following is a list o	of SSL anonymous ciphers	supported by	the remote	TCP server :	
Name	Code	KEX	Auth	Encryption	MA

EXP-ADH-DES-CBC-SHA	0x00, 0x19	DH (512)	None	DES-CBC (40)	
SHA1 export					
EXP-ADH-RC4-MD5	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
export.					
ADH-DES-CBC-SHA	0x00, 0x1A	DH	None	DES-CBC (56)	
SHA1					
Medium Strength Ciphers (> 6	4-bit and $< 112-bit$	it key, or 3DES	3)		
Name	Code	KEX	Auth	Encryption	MAC
ADH-DES-CBC3-SHA	0x00, 0x1B	DH	None	3DES-CBC (168)	

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

The SSL certificate for this service cannot be trusted.

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 'notRefoce' 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-themiddle attacks against the remote host.

Solution
Purchase or generate a proper SSL certificate for this service.
Risk Factor
Medium
CVSS v3.0 Base Score
6.5 (CVSS:3.0/A V:N /AC: L / PR: N / U !:N / S:U / C:L / I: L / A:N)
CVSS v2.0 Base Score
(CVSS2#AV:N/AC:L/Au:N/C:P/I:P/A:N)
Plugin Information

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 Complication of Otherwise Simple Affairs/CN-ubuntu804-base.localdomain/E-root@ubuntu8

base-lacaldomain |-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-

Date to the state of the state

51192 - SSI, Cartificate Cannot Re Truster

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 'notAfter' 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 Nexauxe 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.

Solution

Purchase or generate a proper SSL certificate for this service.

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

Plugin Information

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

The remote server's SSL certificate has already expired.

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

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/A V: N/A C:L / PR: N/UI: N/S:U / C:N / I: L / A:N)

CVSS v2.0 Base Score

5.0 (CVSS2#A V:N /A C:L/A u:N /C: N/I: P/A:N)

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

The remote server's SSL certificate has already expired.

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

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/A V: N/A C:L/PR: N/UI: N/S:U /C:N/I: L/A:N)

CVSS v2.0 Base Score

5.0 (CVSS2#A V:N /A C:L/A u:N/C: N/I: P/A:N)

Plugin Output

tcp/5432/postgresgl

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 CMT

Synopsis The SSL certificate for this service is for a different host. Description The 'commonName' (CN) attribute of the SSL certificate presented for this service is for a different machine. Solution Purchase or generate a proper SSL certificate for this service. Risk Factor Medium CVSS v3.0 Base Score 5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UE:N/S:U/C:N/EL/A:N) CVSSv2.0 Base Score 5.0 (CVSS2#AV:N/AC:L/AW:N/C:N/E:P/A:N) Plugin Output SSD/25/SMSR

45411 - SSL Certificate with Wrong Hostname

The Common Name in the certificate is : ubuntu804-base.localdomain

Synopsis

192.168.32.105 192.168.32.105

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

Description

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

Solution

Purchase or generate a proper SSL certificate for this service.

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

5.0 (CVSS2#A V:N /A C:L/A u:N /C: N/I: P/ A:N)

Plugin Output

tcp/5432/postgresgl

```
The identities known by Newsus are:
192.168.32.105
192.168.32.105
The Common Name in the certificate is:
ubuntu804-base.localdomain
```

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

Description

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

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

Risk Factor

Medium

CVSS v3.0 Base Score

5.9 (CVSS: 3.0 / A V: N/A C:H / PR:N / U I:N / S:U / C:H / I: N / A:N)

CVSS v3.0 Temporal Score

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

VPR Score

4.4

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

BID 83733

CVE CVE-2016-0800 XREF CERT:583776

Plugin Output

tcp/25/smtp

Low Strength Ciphers (<- 64-bit key)

Name Code REX Auth

EXP-RC2-CBC-MD5 0x04, 0x00, 0x80 RSA(512) RSA
export

EXP-RC4-MD5 0x02, 0x00, 0x80 RSA(512) RSA Encryption RC2-CBC (40) MD5

High Strength Ciphers (>- 112-bit key)

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

[Tenable ciphername] [Cipher ID code] Kex-{key exchange} Auth-{authentication}

Encrypt-[symmetric encryption method]
MAC-[message authentication code]

[export flag]

The remote service supports the use of the RC4 cipher.

Description

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

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

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

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

Medium

CVSS v3.0 Base Score

5.9 (CVSS: 3.0 /A V: N/A C:H / PR:N / U I:N / S:U / C:H / I: N / A:N)

CVSS v3.0 Temporal Score

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

VPR Score

3.6

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

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

Plugin Output

tcp/25/smtp

List of RC4 cipher suites supported by the remote server :

Low Strength Ciphers (<- 64-bit key)

Name	Code	KEX	Auth	Encryption	
EXP-RC4-MD5 export	0x02, 0x00, 0x8	0 RSA(512)	RSA	RC4 (40)	
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	

High Strength Ciphers (>- 112-bit key)

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

The remote service supports the use of the RC4 cipher.

Description

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

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

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

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

5.9 (CVSS: 3.0 / A V: N/A C:H / PR:N / U I:N / S:U / C:H / I: N / A:N)

CVSS v3.0 Temporal Score

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

VPR Score

3.6

CVSS v2.0 Base Score

4.3 (CVSS2#A V: N / AC: M / A u; N / C: P / I: N / A: N)

CVSS v2.0 Temporal Score

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

References

BID 58796 73684 BID

CVE CVE-2013-2566 CVE CVE-2015-2808

Plugin Output

tcp/5432/postgresgl

List of RC4 cipher suites supported by the remote server:

High Strength Ciphers (>= 112-bit key)

Code KEX Auth Encryption MAC 0x00, 0x05 RSA RSA RC4(128) Name RC4-SHA SHAI

The fields above are :

[Tenable minhername]
[Cipher ID code]
Eq. [key exchange]
Auth-[authentication]
Encrypt-[symmetric encryption method]
MMC-[message authentication code]
[export flaq]

57582 - SSL Self-Signed Certificate

Synopsis

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

Description

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

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

Solution

Purchase or generate a proper SSL certificate for this service.

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

Plugin Output

tcp/25/smtp

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

|-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-

57582 - SSL Self-Signed Certificate

Synopsis

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

Description

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

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

Solution

Purchase or generate a proper SSL certificate for this service.

Risk Factor

Medium

CVSS v3.0 Base Score

(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#A V: N / A C: L / A u: N / C: P / I: P / A: N)

Plugin Output

tcp/5432/postgresgl

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

|-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/E-root@ubuntu804-base.localdomain

The remote service supports the use of weak SSL ciphers.

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

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

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

4.3 (CVSS2#A V: N /AC: M/A u; N/C: P/I:N /A:N)

References

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

Plugin Output

tcp/25/smtp

Here is the list of weak SSL ciphers supported by the remote server : Low Strength Ciphers (<- 64-bit key) Name Code KEX Auth

EXP-RC2-CBC-MDS 0x04, 0x00, 0x80 RSA(512) RSA
export

EXP-RC4-MD5 0x02, 0x00, 0x80 RSA(512) RSA RC4 (40) MD5 export EXP-EDH-RSA-DES-CBC-SHA 0x00, 0x14 DH(512) RSA DES-CBC (40) DES-CBC (56) DES-CBC (40) BC4 (40) MD5 export ADH-DES-CBC-SHA 0x00, 0x1A DH None DES-CBC (56) ADH-DES-CBC-SHA
SHA1
EXP-DES-CBC-SHA
SHA1
EXP-RC2-CBC-MD5
export
EXP-RC4-MD5
export 0x00, 0x08 RSA(512) RSA DES-CBC (40) 0x00, 0x06 RSA (512) RC2-CBC (40) 0x00, 0x03 RSA(512) RSA export DES-CBC-SHA SHA1 0x00, 0x09 DES-CBC (56) RSA

The fields above are :

[Tenable cipherance]
[Cipher ID code]
Seat-[key exchange]
Auth-[authentication]
Encrypt-[symmetric encryption method]
MAC-[message authentication code]
[export flaq]

The remote host supports a set of weak ciphers.

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

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

Solution

Reconfigure the service to remove support for EXPORT_RSA cipher suites.

Medium

VPR Score

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

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

Plugin Information

Published: 2015/03/04, Modified: 2021/02/03

Plugin Output

tcp/25/smtp

EXPORT_RSA cipher suites supported by the remote server :

Low Strength Ciphers (<- 64-bit key)

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

The fields above are :

[Tenable ciphername]
[Cipher ID code]
[664-[Key exchange]
Auth=[authentication]
Encrypt=[symmetric encryption method]
MAC-[message authentication code]

[export flaq]

78479 - \$\$Lv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE)

Synopsis

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

Description

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

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

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

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

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

Solution

Disable SSLv3.

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

Risk Factor

Medium

CVSS v3.0 Base Score

6.8 (CVSS: 3.0/A V: N / AC: H / PR: N / U I: N / S: C / C: H / I: N / A: N)

CVSS v3.0 Temporal Score

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

VPR Score

5.3

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

BID 70574

CVE CVE-2014-3566 XREF CERT:577193

Plugin Output

tcp/25/smtp

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

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

78479 - SSI v3 Padding Oracle On Downgraded Legacy Encryption, Vulnerability (POODLE

Synopsis

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

Description

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

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

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

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

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

Solution

Disable SSLv3.

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

Risk Factor

Medium

CVSS v3.0 Base Score

6.8 (CVSS: 3.0/A V: N / AC: H / PR: N / U I: N / S: C / C: H / I: N / A: N)

CVSS v3.0 Temporal Score

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

VPR Score

5.3

CVSS v2.0 Base Score

4.3 (CVSS2#A V: N /AC: M/A u: N/C: P/I:N /A:N)

CVSS v2.0 Temporal Score

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

References

BID 70574

CVE CVE-2014-3566 XREF CERT:577193

Plugin Output

tcp/5432/postgresql

Wegging determined that the remote server supports SSLV3 with at least one CBC cipher suite, indicating that this server is vulnerable.

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

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

Description

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

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

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

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

References

XREF

CWE:327

<u>Plugin</u> Output

tcp/25/smtp

TLSv1 is enabled and the server supports at least one cipher.

10/17/13 - TLS Version 1/0 Protocol Detection

Synopsis

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

Description

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

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

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

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

References

XREF CWE:327

Plugin Output

tcp/5432/postgresql

TLSv1 is enabled and the server supports at least one cipher.

42263 - Unencrypted Telnet Server

Synopsis

The remote Telnet server transmits traffic in cleartext.

Description

The remote host is running a Telnet server over an unencrypted channel.

Using Telnet over an unencrypted channel is not recommended as logins, passwords, and commands are transferred in cleartext. This allows a remote, man-in-the-middle attacker to eavesdrop on a Telnet session to obtain credentials or other sensitive information and to modify traffic exchanged between a client and server.

SSH is preferred over Telnet since it protects credentials from eavesdropping and can tunnel additional data streams such as an X11 session.

Solution

Disable the Telnet service and use SSH instead.

Rick Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

5.8 (CVSS2#A V: N / AC: M / A u: N / C:P / I:P / A: N)

Plugin Output

tcp/23/telnet

70658 - SSH Server CBC Mode Cinhers Enabled

Synopsis

The SSH server is configured to use Cipher Block Chaining.

Description

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

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

Solution

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

Risk Factor

Low

VPR Score

2.5

CVSS v2.0 Base Score

 $2.6\;(\text{CVSS2\#A\,V:}\,\text{N/A\,C:H/A\,u:N/C:P/I:N/A:N})$

CVSS v2.0 Temporal Score

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

References

BID 32319

CVE CVE-2008-5161

XREF CERT:958563

XREF CWE:200

Plugin Information

Publish ed: 2013/10/28, Modified: 2018/07/30

<u>Plugin</u> Output

tsp/22/ssh

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

3des-cbc
aes128-cbc
aes128-cbc
aes256-cbc
hlowfish did
cast128-cbc
rijndael-cbc@lysator.liu.se

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

3des-cbc
aes128-cbc
aes128-cbc
aes128-cbc
hlowfish did
cast128-cbc
rijndael-cbc@lysator.liu.se
```

Synopsis
The remote SSH server is configured to allow weak key exchange algorithms.
Description
The remote SSH server is configured to allow key exchange algorithms which are considered weak.
This is based on the IETF draft document Key Exchange (KEX) Method Updates and Recommendations for Secure Shell (SSH) draft-ietf-curdle-ssh-kex-sha2-20. Section 4 lists guidance on key exchange algorithms that SHOULD NOT and MUST NOT be enabled. This includes:
diffie-hellman-group-exchange-sha1
diffie-hellman-group1-sha1
gss·ge x·s ha 1 · [×]
gss-group 1 -s ha 1 - ×
gss-group 14-sha1-"
rsa1024-sha1
Note that this <u>plugin</u> only checks for the options of the SSH server, and it does not check for vulnerable software versions.
Solution
Contact the vendor or consult product documentation to disable the weak algorithms.
Risk Factor
Low
CVSSv3.0 Base Score
3.7 (CVSS:3.0/A V: N/AC:H / PR: N/U::N / S:U / C:L /!: N / A:N)
CVSS v2.0 Base Score
2.6 (CVSS2#A V: N/A C:H /A, X, N, C: P/I: N/A:N)
<u>Plugin</u> Information
Published: 2021/10/13, Modified: 2021/10/13
Plugin Output
tsp/22/55h
The following weak key exchange algorithms are enabled:

diffie-hellman-group-exchange-shal diffie-hellman-group1-shal

71049 - SSH Weak MAC Algorithms Enabled

Synopsis

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

Description

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

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

Solution

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

Diele Carto

Low

CVSS v2.0 Base Score

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

Plugin Information

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

Plugin Output

tcp/22/ssh

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

hmac-md5 hmac-md5-96 hmac-shal-96

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

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

The remote host supports a set of weak ciphers.

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

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

Solution

Reconfigure the service to remove support for ${\sf EXPORT_DHE}$ cipher suites.

Risk Factor

Low

CVSS v3.0 Base Score

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

CVSS v3.0 Temporal Score

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

VPR Score

4.5

CVSS v2.0 Base Score

2.6 (CVSS2#A V: N/A C:H/A u:N/C: N/I: P/A:N)

CVSS v2.0 Temporal Score

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

References

BID 74733

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

Plugin Output

tcp/25/smtp

 ${\tt EXPORT_DHE}$ cipher suites supported by the remote server :

Low Strength Ciphers (<- 64-bit key)

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

The fields above are :

[Tenable ciphername]
[Cipher ID code]
[Ext-[key exchange]
Auth-[authentication]
Encrypt-[symmetric encryption method]
MAC-[message authentication code]
[export flaq]

10407 - X Server Detection
Synopsis
An X11 server is listening on the remote host
Received
Description
The remote host is running an X11 server. X11 is a client-server protocol that can be used to display graphical applications running on a given host on a remote client.
Since the X11 traffic is not ciphered, it is possible for an attacker to eavesdrop on the connection.
Solution
Restrict access to this port. If the X11 client/server facility is not used, disable TCP support in X11 entirely (- DOLISTERLED).
Risk Factor
Low
CVSS v2.0 Base Score
2.6 (CVSS2#AV: N/A C:H/Aw:N/C: P/I: N/A:N)
<u>Plugin</u> Output
\$\$\text{\$6000/x11}
X11 Version: 11.0

Please Note Informationals like already said have been to be removed to respect task's page limit. Please remind always a full list and Nessus Report are available from the engaged pentester. To call the pentester Regularly and building a time/roadmap with him is essential to keep security as high as possible.

The Pentester, Edoardo Castelli