

# Metaspoitable basic

Report generated by  $\mathsf{Nessus}^\mathsf{TM}$ 

Thu, 01 Jun 2023 06:54:13 EDT

### 192.168.50.101



### Scan Information

Start time: Thu lun 1 06:24:09 2023 End time:

Thu Jun 1 06:54:13 2023

### **Host Information**

Netbios Name: **METASPLOITABLE** IP: 192.168.50.101

OS: Linux Kernel 2.6 on Ubuntu 8.04 (hardy)

### **Vulnerabilities**

### 134862 - Apache Tomcat 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 JavaServer Pages (JSP) code within a variety of file types and gain remote code execution (RCE).

### Solution

Update the A JP 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)

### 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
                                                                  ocalhost..P....
 0x0030: 6F 63 61 6C 68 6F 73 74 00 00 50 00 00 09 A0 06
 0x0040: 00 0A 6B 65 65 70 2D 61 6C 69 76 65 00 00 0F 41
                                                                  ..keep-alive...A
          63 63 65 70 74 2D 4C 61 6E 67 75 61 67 65 00 00
                                                                  ccept-Language..
 0 \times 0.050:
 0x0060: 0E 65 6E 2D 55 53 2C 65 6E 3B 71 3D 30 2E 35 00
                                                                  .en-US, en; q=0.5.
                                                                  ....0...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,
                                                                  deflate, sdch...
 0x0090: 64 65 66 6C 61 74 65 2C 20 73 64 63 68 00 00 0D
 0x00A0: 43 61 63 68 65 2D 43 6F 6E 74 72 6F 6C 00 00 09 0x00B0: 6D 61 78 2D 61 67 65 3D 30 00 A0 0E 00 07 4D 6F
                                                                  Cache-Control...
                                                                  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. ..ja
 0x0130: 76 61 78 2E 73 65 72 76 6C 65 74 2E 69 6E 63 6C
                                                                  vax.servlet.incl
 0x0140: 75 64 65 2E 70 61 74 68 5F 69 6E 66 6F 00 00 10 0x0150: 2F 57 45 42 2D 49 4E 46 2F 77 65 62 2E 78 6D 6C
                                                                  ude.path info...
                                                                  /WEB-INF/web.xml
 0x0160: 00 0A 00 22 6A 61 76 61 78 2E 73 65 72 76 6C 65
                                                                   ..."javax.servle
 0x0170: 74 2E 69 6E 63 6C 75 64 65 2E 73 65 72 76 6C 65
                                                                   t.include.servle
 0x0180: 74 5F 70 61 74 68 00 00 00 00 FF
                                                                   t path....
This produced the following truncated output (limite [...]
```

### 51988 - Bind Shell Backdoor Detection

### **Synopsis**

The remote host may have been compromised.

### Description

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

### Solution

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

### Risk Factor

Critical

### CVSS v3.0 Base Score

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

### 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.

### Solution

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

Risk Factor

Critical

CVSS v2.0 Base Score

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

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 OpenVPN key material should be re-generated.

Risk Factor

Critical

CVSS v2.0 Base Score

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

**Exploitable With** 

Core Impact (true)

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.

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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 OpenVPN key material should be re-generated.

Risk Factor

Critical

CVSS v2.0 Base Score

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

**Exploitable With** 

Core Impact (true)

Plugin Output

tcp/5432/postgresql

### 11356 - NFS Exported Share Information Disclosure

Synopsis
It is possible to access NFS shares on the remote host.
Description
At least one of the NFS shares exported by the remote server could be mounted by the scanning host. An attacker may be able to leverage this to read (and possibly write) files on remote host.
Solution
Configure NFS on the remote host so that only authorized hosts can mount its remote shares.
Risk Factor
Critical
CVSS v2.0 Base Score
10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C)
Plugin Output
udp/2049/rpc-nfs

### 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'.

### 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)

Plugin Output

tcp/25/smtp

Lo <sup>Name</sup>	Code	KEX	Auth	Encryption	
EXP-RC2-CBC-MD5		RSA (512)	RSA	RC2-CBC(40)	
export EXP-RC4-MD5 export		RSA(512)	RSA	RC4 (40)	
Me <sup>Name</sup>	Code	KEX 	Auth	Encryption	
DES-CBC3-MD5		RSA	RSA	3DES-CBC(168)	
<sub>Hi</sub> Name	Code	KEX	Auth	Encryption	
RC4-MD5		RSA	RSA	RC4 (128)	
{Tenable ciphername} {Cipher ID code} Kex={key exchange} Auth={authentication} Encrypt={symmetric encrypti MAC={message authentication} {export flag}	<pre>code} rver supports at</pre>	_			
	3.0 Cipiler suice				
	Code	KEX	Auth	Encryption	
SSLv3 is enabled and the se planation: TLS 1.0 and SSL  Name  EXP-EDH-RSA-DES-CBC-SHA HA1 export	-	KEX DH (512)	Auth  RSA	Encryption DES-CBC(40)	

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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.

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### 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)

Plugin Output

tcp/5432/postgresql

### 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)

### Plugin Output

### tcp/0

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

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

### 61708 - VNC Server 'password' Password

### Synopsis

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

### Description

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

### Solution

Secure the VNC service with a strong password.

Risk Factor

Critical

### CVSS v2.0 Base Score

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

### Plugin Information

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

Plugin Output

tcp/5900/vnc

Nessus logged in using a password of "password".

### 136769 - ISC BIND Service Downgrade / Reflected DoS

### **Synopsis**

The remote name server is affected by Service Downgrade / Reflected DoS vulnerabilities.

### Description

According to its self-reported version, the instance of ISC BIND 9 running on the remote name server is affected by performance downgrade and Reflected DoS vulnerabilities. This is due to BIND DNS not sufficiently limiting the number fetches which may be performed while processing a referral response.

An unauthenticated, remote attacker can exploit this to cause degrade the service of the recursive server or to use the affected server as a reflector in a reflection attack.

### 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)

### 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).

### 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)

### Plugin Output

tcp/2049/rpc-nfs

### 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/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N)
	Plugin Output
1	tcp/25/smtp

### 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/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N) Plugin Output tcp/5432/postqresql

### 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.

### 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)

Plugin Output

tcp/445/cifs

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

### 11213 - HTTP TRACE / TRACK Methods Allowed

Synopsis
Debugging functions are enabled on the remote web server.
Description
The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods that are used to debug web server connections.
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)
Plugin Output
tcp/80/www

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

### **Synopsis**

The remote name server is affected by a denial of service vulnerability.

### Description

According to its self-reported version number, the installation of ISC BIND running on the remote name server is version 9.x prior to 9.11.22, 9.12.x prior to 9.16.6 or 9.17.x prior to 9.17.4. It is, therefore, affected by a denial of service (DoS) vulnerability due to an assertion failure when attempting to verify a truncated response to a TSIG-signed request. An authenticated, remote attacker can exploit this issue by sending a truncated response to a TSIG-signed request to trigger an assertion failure, causing the server to exit.

Note that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number.

### Solution

Upgrade to BIND 9.11.22, 9.16.6, 9.17.4 or later.

Risk Factor

Medium

CVSS v3.0 Base Score

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

Plugin Output

udp/53/dns

Installed version : 9.4.2
Fixed version : 9.11.22, 9.16.6, 9.17.4 or later

### 136808 - ISC BIND Denial of Service

### **Synopsis**

The remote name server is affected by an assertion failure vulnerability.

### Description

A denial of service (DoS) vulnerability exists in ISC BIND versions 9.11.18 / 9.11.18-S1 / 9.12.4-P2 / 9.13 / 9.14.11 / 9.15 / 9.16.2 / 9.17 / 9.17.1 and earlier. An unauthenticated, remote attacker can exploit this issue, via a specially-crafted message, to cause the service to stop responding.

Note that Nessus has not tested for this issue but has instead relied only on the application's self-reported version number.

### Solution

Upgrade to the patched release most closely related to your current version of BIND.

Risk Factor

Medium

CVSS v3.0 Base Score

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

Plugin Output

udp/53/dns

Installed version : 9.4.2
Fixed version : 9.11.19

### 57608 - SMB Signing not required

### **Synopsis**

Signing is not required on the remote SMB server.

### Description

Signing is not required on the remote SMB server. An unauthenticated, remote attacker can exploit this to conduct man-in-the-middle attacks against the SMB server.

### Solution

Enforce message signing in the host's configuration. On Windows, this is found in the policy setting 'Microsoft network server: Digitally sign communications (always)'. On Samba, the setting is called 'server signing'. See the 'see also' links for further details.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

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

### CVSS v2.0 Base Score

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

```
Nessus sent the following two commands in a single packet:

STARTTLS\r\nRSET\r\n

And the server sent the following two responses:

220 2.0.0 Ready to start TLS
250 2.0.0 Ok
```

### 90317 - SSH Weak Algorithms Supported

### Synopsis

The remote SSH server is configured to allow weak encryption algorithms or no algorithm at all.

### Description

Nessus has detected that the remote SSH server is configured to use the Arcfour stream cipher or no cipher at all. RFC 4253 advises against using Arcfour due to an issue with weak keys.

### 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
arcfour256

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

arcfour
arcfour
arcfour128
arcfour256
```

### 31705 - SSL Anonymous Cipher Suites Supported

Synopsis
The remote service supports the use of anonymous SSL ciphers.
Description
The remote host supports the use of anonymous SSL ciphers. While this enables an administrator to set up a service that encrypts traffic without having to generate and configure SSL certificates, it offers no way to verify the remote host's identity and renders the service vulnerable to a man-in-the-middle attack.
Note: This is considerably easier to exploit if the attacker is on the same physical network.
Solution
Reconfigure the affected application if possible to avoid use of weak ciphers.
Risk Factor
Low
CVSS v3.0 Base Score
5.9 (CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:H/I:N/A:N)
Plugin Output
ccp/25/smtp

### 51192 - SSL Certificate Cannot Be Trusted

### **Synopsis**

The SSL certificate for this service cannot be trusted.

### Description

tcp/25/smtp

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

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

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

# 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) Plugin Output

### 51192 - SSL Certificate Cannot Be Trusted

### **Synopsis**

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### Description

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

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

# Solution Purchase or generate a proper SSL certificate for this service. Risk Factor Medium CVSS v3.0 Base Score 6.4 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N)

### Plugin Output

tcp/5432/postgresql

### 15901 - SSL Certificate Expiry

### **Synopsis**

The remote server's SSL certificate has already expired.

### Description

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

### Solution

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

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### Plugin Output

### tcp/25/smtp

```
The SSL certificate has already expired:

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

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

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

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

### 15901 - SSL Certificate Expiry

### Synopsis

The remote server's SSL certificate has already expired.

### Description

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

### Solution

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

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### Plugin Output

### tcp/5432/postgresql

```
The SSL certificate has already expired:

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

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

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

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

### 45411 - SSL Certificate with Wrong Hostname

### Synopsis

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

### Description

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

### Solution

Purchase or generate a proper SSL certificate for this service.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### Plugin Output

### tcp/25/smtp

```
The identities known by Nessus are:

192.168.50.101

192.168.50.101

The Common Name in the certificate is:

ubuntu804-base.localdomain
```

### 45411 - SSL Certificate with Wrong Hostname

### Synopsis

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

### Description

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

### Solution

Purchase or generate a proper SSL certificate for this service.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### Plugin Output

### tcp/5432/postgresql

```
The identities known by Nessus are:

192.168.50.101

192.168.50.101

The Common Name in the certificate is:

ubuntu804-base.localdomain
```

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

### Synopsis

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

### Description

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

### Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

Plugin Output

tcp/25/smtp

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

### **Synopsis**

The remote service supports the use of the RC4 cipher.

### Description

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

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

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

### Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

Plugin Output

tcp/25/smtp

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### Solution

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Risk Factor

Medium

CVSS v3.0 Base Score

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

Plugin Output

tcp/5432/postgresql

```
List of RC4 cipher suites supported by the remote server :
 High Strength Ciphers (>= 112-bit key)
Name
                                                                                                MAC
                               Code
                                                KEX
                                                               Aut.h
                                                                        Encryption
RC4-SHA
                               0x00, 0x05
                                               RSA
                                                                        RC4 (128)
SHA1
The fields above are :
  {Tenable ciphername}
  {Cipher ID code}
  Kex={key exchange}
 Auth={authentication}
  Encrypt={symmetric encryption method}
 MAC={message authentication code}
  {export flag}
```

### 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)

### 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-base.localdomain

### 57582 - SSL Self-Signed Certificate

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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

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

### Plugin Output

tcp/5432/postgresql

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

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

### 26928 - SSL Weak Cipher Suites Supported

# Synopsis The remote service supports the use of weak SSL ciphers. Description The remote host supports the use of SSL ciphers that offer weak encryption. Note: This is considerably easier to exploit if the attacker is on the same physical network. 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) Plugin Output tcp/25/smtp

### 81606 - SSL/TLS EXPORT\_RSA <= 512-bit Cipher Suites Supported (FREAK)

### Synopsis

The remote host supports a set of weak ciphers.

### Description

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

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

### Solution

Reconfigure the service to remove support for EXPORT\_RSA cipher suites.

### Risk Factor

Medium

### CVSS v2.0 Base Score

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

Plugin Output

tcp/25/smtp

Low Strength Ciphers (< Name	Code	KEX	Auth	Encryption	MAC
EXP-DES-CBC-SHA	0x00, 0x08	RSA(512)	RSA	DES-CBC(40)	
IA1 export EXP-RC2-CBC-MD5	0x00, 0x06	RSA(512)	RSA	RC2-CBC(40)	MD5
export	0000, 0000	1011(012)	1/0/1	102 000 (10)	1100
EXP-RC4-MD5 export	0x00, 0x03	RSA(512)	RSA	RC4(40)	MD5
The fields above are :					
{Tenable ciphername} {Cipher ID code} Kex={key exchange} Auth={authentication} Encrypt={symmetric encr MAC={message authentication}					

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

### **Synopsis**

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

### Description

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

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

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

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

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

### Solution

### Disable SSLv3.

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

Plugin Output

tcp/25/smtp

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

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

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### Solution

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

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### Plugin Output

tcp/5432/postgresql

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

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

### 104743 - TLS Version 1.0 Protocol Detection

### **Synopsis**

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

### Description

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

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

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

### 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)

### Plugin Output

### tcp/25/smtp

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

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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)

### Plugin Output

### tcp/5432/postgresql

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

### 70658 - SSH Server CBC Mode Ciphers 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 plugin 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

### CVSS v2.0 Base Score

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

### Plugin Output

### tcp/22/ssh

```
The following client-to-server Cipher Block Chaining (CBC) algorithms
are supported :
  3des-cbc
  aes128-cbc
  aes192-cbc
  aes256-cbc
  blowfish-cbc
 cast128-cbc
 rijndael-cbc@lysator.liu.se
The following server-to-client Cipher Block Chaining (CBC) algorithms
are supported :
  3des-cbc
  aes128-cbc
  aes192-cbc
  aes256-cbc
  blowfish-cbc
  cast128-cbc
  rijndael-cbc@lysator.liu.se
```

### 153953 - SSH Weak Key Exchange Algorithms Enabled

### **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-gex-sha1-\*

gss-group1-sha1-\*

gss-group14-sha1-\*

rsa1024-sha1

Note that this plugin 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

CVSS v3.0 Base Score

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

Plugin Output

tcp/22/ssh

```
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 plugin 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.

### Risk Factor

Low

### CVSS v2.0 Base Score

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

### Plugin Output

### tcp/22/ssh

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

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

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

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

### 83738 - SSL/TLS EXPORT DHE <= 512-bit Export Cipher Suites Supported (Logiam)

### **Synopsis**

The remote host supports a set of weak ciphers.

### Description

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 EXPORT\_DHE cipher suites.

### Risk Factor

Low

### CVSS v3.0 Base Score

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

### Plugin Output

### tcp/25/smtp

```
{\tt EXPORT\_DHE} cipher suites supported by the remote server :
  Low Strength Ciphers (<= 64-bit key)
                                   Code
                                                     KEX
                                                                   Auth
                                                                            Encryption
                                                                                                    MAC
   EXP-EDH-RSA-DES-CBC-SHA
                                   0x00, 0x14
                                                    DH (512)
                                                                   RSA
                                                                            DES-CBC (40)
         export
   EXP-ADH-DES-CBC-SHA
                                   0x00, 0x19
                                                                            DES-CBC(40)
                                                    DH (512)
                                                                   None
          export
   EXP-ADH-RC4-MD5
                                   0x00, 0x17
                                                    DH (512)
                                                                            RC4(40)
                                                                                                    MD5
                                                                   None
       export
The fields above are :
  {Tenable ciphername}
  {Cipher ID code}
 Kex={key exchange}
 Auth={authentication}
 Encrypt={symmetric encryption method}
 MAC={message authentication code}
  {export flag}
```

### 10407 - X Server Detection

### Synopsis

An X11 server is listening on the remote host

### 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 (nolisten tcp).

Risk Factor

Low

### CVSS v2.0 Base Score

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

### Plugin Output

tcp/6000/x11

X11 Version : 11.0