



# VIRTUAL MACHINE METASPLOITABLE 2

Report generated by Nessus™

Fri, 02 Jun 2023 13:43:55 EDT

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### Vulnerabilities by Host

**192.168.50.101**



### Scan Information

Start time: Fri Jun 2 12:57:34 2023

End time: Fri Jun 2 13:43:54 2023

### Host Information

Netbios Name: METASPLOITABLE

IP: 192.168.50.101

MAC Address: 08:00:27:E2:A5:69

OS: Linux Kernel 2.6 on Ubuntu 8.04 (gutsy)

### 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 AJP connector. A remote, unauthenticated attacker could

exploit this vulnerability to read web application files from a vulnerable server. In instances where the vulnerable server allows file uploads, an attacker could upload malicious JavaServer Pages (JSP) code within a variety of file types and gain remote code execution (RCE).

#### Solution

Update the AJP configuration to require authorization and/or upgrade the Tomcat server to 7.0.100, 8.5.51, 9.0.31 or later.

#### Risk Factor

High

#### CVSS v3.0 Base Score

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

#### CVSS v3.0 Temporal Score

9.4 (CVSS:3.0/E:H/RL:O/RC:C)

#### CVSS v2.0 Base Score

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

#### CVSS v2.0 Temporal Score

6.5 (CVSS2#E:H/RL:OF/RC:C)

#### References

CVE	CVE-2020-1745
CVE	CVE-2020-1938
XREF	CISA-KNOWN-EXPLOITED:2022/03/17
XREF	CEA-ID:CEA-2020-0021

#### Plugin Information

Published: 2020/03/24, Modified: 2023/05/24

#### Plugin Output

tcp/8009/ajp13

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

### Risk Factor

Critical

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

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

### Exploitable With

Core Impact (true)

### Plugin Information

Published: 2008/05/15, Modified: 2020/11/16

### Plugin Output

tcp/25/smtp

## 32321 - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)

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

### Risk Factor

Critical

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

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

### Exploitable With

Core Impact (true)

### Plugin Information

Published: 2008/05/15, Modified: 2020/11/16

### Plugin Output

tcp/5432/postgresql

192.168.50.101

## 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)

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2005/10/12, Modified: 2022/04/04

### Plugin Output

tcp/25/smtp

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

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- An insecure padding scheme with CBC ciphers.
- Insecure session renegotiation and resumption schemes.

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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)

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2005/10/12, Modified: 2022/04/04

### Plugin Output

tcp/5432/postgresql

192.168.50.101

## 33850 - Unix Operating System Unsupported Version Detection

### Synopsis

The operating system running on the remote host is no longer supported.

### Description

According to its self-reported version number, the Unix operating system running on the remote host is no longer supported.

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

### Solution

Upgrade to a version of the Unix operating system that is currently supported.

### Risk Factor

Critical

### CVSS v3.0 Base Score

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

### CVSS v2.0 Base Score

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

### References

XREF	IAVA:0001-A-0502
XREF	IAVA:0001-A-0648

### Plugin Information

Published: 2008/08/08, Modified: 2023/05/18

### Plugin Output

tcp/0

## 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:H)

### CVSS v3.0 Temporal Score

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

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### STIG Severity

I

### References

CVE CVE-2020-8616

XREF IAVA:2020-A-0217-S

### Plugin Information

Published: 2020/05/22, Modified: 2020/06/26

192.168.50.101



## Plugin Output

udp/53/dns

## 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)

### CVSS v2.0 Base Score

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

### References

CVE CVE-2016-2183

### Plugin Information

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

## Plugin Output

tcp/25/smtp

192.168.50.101

## 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)

### CVSS v2.0 Base Score

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

### References

CVE CVE-2016-2183

### Plugin Information

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

### Plugin Output

tcp/5432/postgresql

## 90509 - Samba Badlock Vulnerability

### Synopsis

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

### Description

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

### Solution

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

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v3.0 Temporal Score

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

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

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

### Plugin Information

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

Plugin Output

tcp/445/cifs

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)

CVSS v3.0 Temporal Score

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

CVSS v2.0 Base Score

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

CVSS v2.0 Temporal Score

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

References

BID	9506
BID	9561
BID	11604
BID	33374

BID	37995
CVE	CVE-2003-1567
CVE	CVE-2004-2320
CVE	CVE-2010-0386
XREF	CERT:288308
XREF	CERT:867593
XREF	CWE:16
XREF	CWE:200

#### Plugin Information

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

#### Plugin Output

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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)

### CVSS v3.0 Temporal Score

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

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### STIG Severity

I

### References

CVE	CVE-2020-8622
XREF	IAVA:2020-A-0385-S

### Plugin Information

192.168.50.101

Published: 2020/08/27, Modified: 2021/06/03

## Plugin Output

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udp/53/dns

## 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)

### CVSS v3.0 Temporal Score

5.3 (CVSS:3.0/E:P/RL:O/RC:C)

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### STIG Severity

I

### References

CVE CVE-2020-8617

XREF IAVA:2020-A-0217-S

### Plugin Information

Published: 2020/05/22, Modified: 2023/03/23



## Plugin Output

udp/53/dns

### 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)

#### CVSS v3.0 Temporal Score

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

#### CVSS v2.0 Base Score

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

#### CVSS v2.0 Temporal Score

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

#### Plugin Information

Published: 2012/01/19, Modified: 2022/10/05

#### Plugin Output

tcp/445/cifs

192.168.50.101

## 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)

### CVSS v2.0 Temporal Score

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

### References

BID	46767
CVE	CVE-2011-0411
CVE	CVE-2011-1430
CVE	CVE-2011-1431
CVE	CVE-2011-1432
CVE	CVE-2011-1506
CVE	CVE-2011-2165
XREF	CERT:555316

### Plugin Information

Published: 2011/03/10, Modified: 2019/03/06

### Plugin Output

tcp/25/smtp

## 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)

### CVSS v3.0 Temporal Score

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

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

BID 28482

CVE CVE-2007-1858

### Plugin Information

Published: 2008/03/28, Modified: 2021/02/03

### Plugin Output

tcp/25/smtp

192.168.50.101

## 51192 - SSL Certificate Cannot Be Trusted

### Synopsis

The SSL certificate for this service cannot be trusted.

### Description

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

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

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

### Solution

Purchase or generate a proper SSL certificate for this service.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2010/12/15, Modified: 2020/04/27

### Plugin Output

tcp/25/smtp

## 51192 - SSL Certificate Cannot Be Trusted

### Synopsis

The SSL certificate for this service cannot be trusted.

### Description

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

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

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

### Solution

Purchase or generate a proper SSL certificate for this service.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2010/12/15, Modified: 2020/04/27

### 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)

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2004/12/03, Modified: 2021/02/03

### Plugin Output

tcp/25/smtp

## 15901 - SSL Certificate Expiry

### Synopsis

The remote server's SSL certificate has already expired.

### Description

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

### Solution

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

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2004/12/03, Modified: 2021/02/03

### Plugin Output

tcp/5432/postgresql

## 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)

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2010/04/03, Modified: 2020/04/27

### Plugin Output

tcp/25/smtp

## 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

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Medium

## CVSS v3.0 Base Score

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

## CVSS v2.0 Base Score

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

## Plugin Information

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Published: 2010/04/03, Modified: 2020/04/27

## Plugin Output

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tcp/5432/postgresql

## 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)

### CVSS v3.0 Temporal Score

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

### 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 Information

Published: 2016/03/01, Modified: 2019/11/20

## 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)

#### CVSS v3.0 Temporal Score

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

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

## Plugin Information

Published: 2013/04/05, Modified: 2021/02/03

## Plugin Output

tcp/25/smtp

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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)

## CVSS v3.0 Temporal Score

192.168.50.101

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

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

Plugin Information

Published: 2013/04/05, Modified: 2021/02/03

Plugin Output

tcp/5432/postgresql

## 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

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

### Plugin Information

Published: 2012/01/17, Modified: 2022/06/14

### Plugin Output

tcp/25/smtp

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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

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

### CVSS v2.0 Base Score

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

### Plugin Information

Published: 2012/01/17, Modified: 2022/06/14

### Plugin Output

tcp/5432/postgresql

## 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)

### CVSS v2.0 Base Score

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

### References

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

### Plugin Information

Published: 2007/10/08, Modified: 2021/02/03

### 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)

### CVSS v2.0 Temporal Score

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

### References

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

### Plugin Information

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

### Plugin Output

tcp/25/smtp

## 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)

### CVSS v3.0 Temporal Score

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

### 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 Information

Published: 2014/10/15, Modified: 2020/06/12

#### Plugin Output

tcp/25/smtp

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#### 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)

CVSS v3.0 Temporal Score

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

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 Information

Published: 2014/10/15, Modified: 2020/06/12

Plugin Output

tcp/5432/postgresql

## 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)

### 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 Information

Published: 2017/11/22, Modified: 2023/04/19

### Plugin Output

tcp/25/smtp

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### See Also

<https://tools.ietf.org/html/draft-ietf-tls-oldversions-deprecate-00>

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

### References

XREF           CWE:327

### Plugin Information

Published: 2017/11/22, Modified: 2023/04/19

### Plugin Output

tcp/5432/postgresql

192.168.50.101

## 83738 - SSL/TLS EXPORT\_DHE <= 512-bit Export Cipher Suites Supported (Logjam)

### 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.

### See Also

<https://weakdh.org/>

### 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)

### CVSS v3.0 Temporal Score

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

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

BID 74733  
CVE CVE-2015-4000  
XREF CEA-ID:CEA-2021-0004

### Plugin Information

Published: 2015/05/21, Modified: 2022/12/05

## Plugin Output

tcp/25/smtp

## 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 Information

Published: 2000/05/12, Modified: 2019/03/05

### Plugin Output

tcp/6000/x11