

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 1.1 (with approved cipher suites) or higher instead.

See Also

<https://www.schneier.com/academic/paperfiles/paper-ssl.pdf>

<http://www.nessus.org/u?b06c7e95>

<http://www.nessus.org/u?247c4540>

<https://www.openssl.org/~bodo/ssl-poodle.pdf>

<http://www.nessus.org/u?5d15ba70>

<https://www.imperialviolet.org/2014/10/14/poodle.html>

<https://tools.ietf.org/html/rfc7507>

<https://tools.ietf.org/html/rfc7568>

Severity: High

ID: 20007

Version: 1.32

Type: remote

Family: Service detection

Published: October 12, 2005

Modified: March 27, 2019

Risk Information

Risk Factor: High

CVSS v3.0 Base Score 7.5

CVSS v3.0 Vector:

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

CVSS Base Score: 7.1

CVSS Vector:

CVSS2#AV:N/AC:M/Au:N/C:I/N/A/N

Vulnerability Information

In the news: true

Output

- 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

High Strength Ciphers (>= 112-bit key)

RC4-MD5	Kx=RSA	Au=RSA	Enc=RC4(128)	Mac=MD5
RC4-SHA	Kx=RSA	Au=RSA	Enc=RC4(128)	
Mac=SHA1				

The fields above are :

```
{OpenSSL ciphername}
Kx={key exchange}
Au={authentication}
Enc={symmetric encryption method}
Mac={message authentication code}
{export flag}
```

Port - Hosts

4433 / tcp / www

443 / tcp / www