



# Scan2ElectricBoogaloo

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Report generated by Nessus™

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## **Vulnerabilities by Plugin**

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## 20007 (2) - SSL Version 2 and 3 Protocol Detection

### Synopsis

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

### Description

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The remote service accepts connections encrypted using SSL 2.0 and/or SSL 3.0. These versions of SSL are affected by several cryptographic flaws, including:

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

An attacker can exploit these flaws to conduct man-in-the-middle attacks or to decrypt communications between the affected service and clients.

Although SSL/TLS has a secure means for choosing the highest supported version of the protocol (so that these versions will be used only if the client or server support nothing better), many web browsers implement this in an unsafe way that allows an attacker to downgrade a connection (such as in POODLE). Therefore, it is recommended that these protocols be disabled entirely.

NIST has determined that SSL 3.0 is no longer acceptable for secure communications. As of the date of enforcement found in PCI DSS v3.1, any version of SSL will not meet the PCI SSC's definition of 'strong cryptography'.

### See Also

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

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

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

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

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

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

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

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

### Solution

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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

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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/I:C/A:C)

## Plugin Information

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

## Plugin Output

192.168.50.101 (tcp/25/smtp)

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

### Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
EXP-RC2-CBC-MD5 export		RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export		RSA (512)	RSA	RC4 (40)	MD5

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

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
DES-CBC3-MD5		RSA	RSA	3DES-CBC (168)	MD5

### High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
RC4-MD5		RSA	RSA	RC4 (128)	MD5

The fields above are :

{Tenable ciphername}  
{Cipher ID code}  
Kex={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

### Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
EXP-EDH-RSA-DES-CBC-SHA SHA1 export		DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA		DH	RSA	DES-CBC (56)	SHA
[...]					



- 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)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	---	-----	---
EDH-RSA-DES-CBC3-SHA		DH	RSA	3DES-CBC (168)	
SHA1					
DES-CBC3-SHA		RSA	RSA	3DES-CBC (168)	
SHA1					

#### High Strength Ciphers (>= 112-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 ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```

## 32321 (2) - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)

### Synopsis

The remote SSL certificate uses a weak key.

### Description

The remote x509 certificate on the remote SSL server has been generated on a Debian or Ubuntu system which contains a bug in the random number generator of its OpenSSL library.

The problem is due to a Debian packager removing nearly all sources of entropy in the remote version of OpenSSL.

An attacker can easily obtain the private part of the remote key and use this to decipher the remote session or set up a man in the middle attack.

### See Also

<http://www.nessus.org/u?107f9bdc>

<http://www.nessus.org/u?f14f4224>

### Solution

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

### Risk Factor

Critical

### VPR Score

7.4

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

BID 29179

CVE CVE-2008-0166

XREF           CWE:310

Exploitable With

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Core Impact (true)

Plugin Information

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

Plugin Output

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192.168.50.101 (tcp/25/smtp)  
192.168.50.101 (tcp/5432/postgresql)

## 32314 (1) - Debian OpenSSH/OpenSSL Package Random Number Generator Weakness

### Synopsis

The remote SSH host keys are weak.

### Description

The remote SSH host key has been generated on a Debian or Ubuntu system which contains a bug in the random number generator of its OpenSSL library.

The problem is due to a Debian packager removing nearly all sources of entropy in the remote version of OpenSSL.

An attacker can easily obtain the private part of the remote key and use this to set up decipher the remote session or set up a man in the middle attack.

### See Also

<http://www.nessus.org/u?107f9bdc>

<http://www.nessus.org/u?f14f4224>

### Solution

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

### Risk Factor

Critical

### VPR Score

7.4

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

BID 29179

CVE CVE-2008-0166

XREF           CWE:310

Exploitable With

---

Core Impact (true)

Plugin Information

---

Published: 2008/05/14, Modified: 2018/11/15

Plugin Output

---

192.168.50.101 (tcp/22/ssh)

## 33850 (1) - 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/I:C/A:C)

### References

XREF IAVA:0001-A-0502

XREF IAVA:0001-A-0648

### Plugin Information

Published: 2008/08/08, Modified: 2024/01/12

### Plugin Output

192.168.50.101 (tcp/0)

Ubuntu 8.04 support ended on 2011-05-12 (Desktop) / 2013-05-09 (Server).  
Upgrade to Ubuntu 23.04 / LTS 22.04 / LTS 20.04 .

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

## 42873 (2) - SSL Medium Strength Cipher Suites Supported (SWEET32)

### Synopsis

The remote service supports the use of medium strength SSL ciphers.

### Description

The remote host supports the use of SSL ciphers that offer medium strength encryption. Nessus regards medium strength as any encryption that uses key lengths at least 64 bits and less than 112 bits, or else that uses the 3DES encryption suite.

Note that it is considerably easier to circumvent medium strength encryption if the attacker is on the same physical network.

### See Also

<https://www.openssl.org/blog/blog/2016/08/24/sweet32/>

<https://sweet32.info>

### Solution

Reconfigure the affected application if possible to avoid use of medium strength ciphers.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### VPR Score

6.1

### CVSS v2.0 Base Score

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

### References

CVE CVE-2016-2183

### Plugin Information

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

## Plugin Output

### 192.168.50.101 (tcp/25/smtp)

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

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
DES-CBC3-MD5	0x07, 0x00, 0xC0	RSA	RSA	3DES-CBC (168)	MD5
EDH-RSA-DES-CBC3-SHA	0x00, 0x16	DH	RSA	3DES-CBC (168)	
SHA1					
ADH-DES-CBC3-SHA	0x00, 0x1B	DH	None	3DES-CBC (168)	
SHA1					
DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	
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}
```

### 192.168.50.101 (tcp/5432/postgresql)

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 ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```



## 90509 (1) - 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.

### See Also

<http://badlock.org>

<https://www.samba.org/samba/security/CVE-2016-2118.html>

### Solution

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

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v3.0 Temporal Score

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

### VPR Score

6.7

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

#### References

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

#### Plugin Information

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

#### Plugin Output

---

192.168.50.101 (tcp/445/cifs)

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

## 136769 (1) - ISC BIND Service Downgrade / Reflected DoS

### Synopsis

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

### Description

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

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

### See Also

<https://kb.isc.org/docs/cve-2020-8616>

### Solution

Upgrade to the ISC BIND version referenced in the vendor advisory.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v3.0 Temporal Score

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

### VPR Score

5.2

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

## STIG Severity

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## References

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CVE	CVE-2020-8616
XREF	IAVA:2020-A-0217-S

## Plugin Information

---

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

## Plugin Output

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192.168.50.101 (udp/53/dns)

```
Installed version : 9.4.2
Fixed version    : 9.11.19
```

## 15901 (2) - 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

192.168.50.101 (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
```

192.168.50.101 (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 (2) - 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

192.168.50.101 (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
```

192.168.50.101 (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



## 51192 (2) - 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.

### See Also

<https://www.itu.int/rec/T-REC-X.509/en>

<https://en.wikipedia.org/wiki/X.509>

### 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

---

### 192.168.50.101 (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 for  
Complication of Otherwise Simple Affairs/CN=ubuntu804-base.localdomain/E=root@ubuntu804-  
base.localdomain  
| -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-  
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/E=root@ubuntu804-  
base.localdomain
```

### 192.168.50.101 (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.localdomain  
| -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-  
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/E=root@ubuntu804-  
base.localdomain
```

## 57582 (2) - 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

192.168.50.101 (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
```

192.168.50.101 (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
```

## 65821 (2) - 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.

### See Also

<https://www.rc4nomore.com/>

<http://www.nessus.org/u?ac7327a0>

<http://cr.yp.to/talks/2013.03.12/slides.pdf>

<http://www.isg.rhul.ac.uk/tls/>

[https://www.imperva.com/docs/HII\\_Attacking\\_SSL\\_when\\_using\\_RC4.pdf](https://www.imperva.com/docs/HII_Attacking_SSL_when_using_RC4.pdf)

### 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)

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

#### Plugin Information

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

#### Plugin Output

##### 192.168.50.101 (tcp/25/smtp)

List of RC4 cipher suites supported by the remote server :

###### Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	----
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA (512)	RSA	RC4 (40)	MD5
EXP-ADH-RC4-MD5 export	0x00, 0x17	DH (512)	None	RC4 (40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5

###### 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)	
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}
```

##### 192.168.50.101 (tcp/5432/postgresql)

List of RC4 cipher suites supported by the remote server :

#### High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
RC4-SHA	0x00, 0x05	RSA	RSA	RC4 (128)	
SHA1					

The fields above are :

```
{Tenable ciphertype}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```

## 104743 (2) - 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.

### 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



192.168.50.101 (tcp/25/smtp)

```
TLSTls1 is enabled and the server supports at least one cipher.
```

192.168.50.101 (tcp/5432/postgresql)

```
TLSTls1 is enabled and the server supports at least one cipher.
```

## 11213 (1) - HTTP TRACE / TRACK Methods Allowed

### Synopsis

Debugging functions are enabled on the remote web server.

### Description

The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods that are used to debug web server connections.

### See Also

<http://www.nessus.org/u?e979b5cb>

<http://www.apacheweek.com/issues/03-01-24>

<https://download.oracle.com/sunalerts/1000718.1.html>

### Solution

Disable these HTTP methods. Refer to the plugin output for more information.

### Risk Factor

Medium

### CVSS v3.0 Base Score

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

### CVSS v3.0 Temporal Score

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

### VPR Score

4.0

### CVSS v2.0 Base Score

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

### CVSS v2.0 Temporal Score

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

### References

BID	9506
BID	9561
BID	11604
BID	33374
BID	37995
CVE	CVE-2003-1567
CVE	CVE-2004-2320
CVE	CVE-2010-0386
XREF	CERT:288308
XREF	CERT:867593
XREF	CWE:16
XREF	CWE:200

## Plugin Information

Published: 2003/01/23, Modified: 2023/10/27

## Plugin Output

192.168.50.101 (tcp/80/www)

To disable these methods, add the following lines for each virtual host in your configuration file :

```
RewriteEngine on
RewriteCond %{REQUEST_METHOD} ^(TRACE|TRACK)
RewriteRule .* - [F]
```

Alternatively, note that Apache versions 1.3.34, 2.0.55, and 2.2 support disabling the TRACE method natively via the 'TraceEnable' directive.

Nessus sent the following TRACE request : \n\n----- snip  
-----\nTRACE /Nessus1515011701.html HTTP/1.1

Connection: Close  
Host: 192.168.50.101  
Pragma: no-cache  
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)  
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, \*/\*  
Accept-Language: en  
Accept-Charset: iso-8859-1,\*,utf-8

----- snip -----\n\nand received the  
following response from the remote server : \n\n----- snip  
-----\nHTTP/1.1 200 OK

Date: Sun, 28 Jan 2024 23:10:27 GMT  
Server: Apache/2.2.8 (Ubuntu) DAV/2  
Keep-Alive: timeout=15, max=100  
Connection: Keep-Alive  
Transfer-Encoding: chunked  
Content-Type: message/http

TRACE /Nessus1515011701.html HTTP/1.1  
Connection: Keep-Alive  
Host: 192.168.50.101  
Pragma: no-cache

```
User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0)
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, image/png, */*
Accept-Language: en
Accept-Charset: iso-8859-1,*,utf-8
```

```
----- snip -----\n
```

## 26928 (1) - 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.

### See Also

<http://www.nessus.org/u?6527892d>

### 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

192.168.50.101 (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	Encryption	MAC
-----	-----	---	----	-----	---
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA (512)	RSA	RC4 (40)	MD5
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH (512)	RSA	DES-CBC (40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	
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
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC (56)	

The fields above are :

{Tenable ciphername}  
{Cipher ID code}  
Kex={key exchange}  
Auth={authentication}  
Encrypt={symmetric encryption method}  
MAC={message authentication code}  
{export flag}

## 31705 (1) - 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.

### See Also

<http://www.nessus.org/u?3a040ada>

### 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)

### VPR Score

3.6

### 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:O/RC:C)

### References

BID 28482  
CVE CVE-2007-1858

Plugin Information

Published: 2008/03/28, Modified: 2023/10/27

Plugin Output

192.168.50.101 (tcp/25/smtp)

The following is a list of SSL anonymous ciphers supported by the remote TCP server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
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
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	

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

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
ADH-DES-CBC3-SHA SHA1	0x00, 0x1B	DH	None	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

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

The fields above are :

{Tenable ciphername}  
{Cipher ID code}  
Kex={key exchange}  
Auth={authentication}  
Encrypt={symmetric encryption method}  
MAC={message authentication code}  
{export flag}



## 52611 (1) - 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.

### See Also

<https://tools.ietf.org/html/rfc2487>

<https://www.securityfocus.com/archive/1/516901/30/0/threaded>

### 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#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

---

192.168.50.101 (tcp/25/smtp)

```
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
```

## 57608 (1) - 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.

### See Also

<http://www.nessus.org/u?df39b8b3>

<http://technet.microsoft.com/en-us/library/cc731957.aspx>

<http://www.nessus.org/u?74b80723>

<https://www.samba.org/samba/docs/current/man-html/smb.conf.5.html>

<http://www.nessus.org/u?a3cac4ea>

### 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

---

192.168.50.101 (tcp/445/cifs)

## 81606 (1) - 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.

### See Also

<https://www.smacktls.com/#freak>

<https://www.openssl.org/news/secadv/20150108.txt>

<http://www.nessus.org/u?b78da2c4>

### Solution

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

### Risk Factor

Medium

### VPR Score

4.5

### 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

192.168.50.101 (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 SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5
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 encryption method}  
MAC={message authentication code}  
{export flag}

## 89058 (1) - 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.

### See Also

<https://drownattack.com/>

<https://drownattack.com/drown-attack-paper.pdf>

### 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)

### 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 Information

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

#### Plugin Output

192.168.50.101 (tcp/25/smtp)

The remote host is affected by SSL DROWN and supports the following vulnerable cipher suites :

##### Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA(512)	RSA	RC2-CBC(40)	MD5
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA(512)	RSA	RC4(40)	MD5

##### High Strength Ciphers (>= 112-bit key)

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

The fields above are :

{Tenable ciphername}  
{Cipher ID code}  
Kex={key exchange}  
Auth={authentication}  
Encrypt={symmetric encryption method}  
MAC={message authentication code}  
{export flag}



## 90317 (1) - 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.

### See Also

<https://tools.ietf.org/html/rfc4253#section-6.3>

### 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 Information

Published: 2016/04/04, Modified: 2016/12/14

### Plugin Output

192.168.50.101 (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
arcfour128
arcfour256
```

## 136808 (1) - 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.

### See Also

<https://kb.isc.org/docs/cve-2020-8617>

### 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)

### VPR Score

4.4

### 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

---

192.168.50.101 (udp/53/dns)

```
Installed version : 9.4.2
Fixed version    : 9.11.19
```

## 139915 (1) - 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.

### See Also

<https://kb.isc.org/docs/cve-2020-8622>

### 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)

### VPR Score

3.6

### 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

---

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

## Plugin Output

---

192.168.50.101 (udp/53/dns)

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

## 78479 (2) - 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.

### See Also

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

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

<https://tools.ietf.org/html/draft-ietf-tls-downgrade-scsv-00>

### 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

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

### CVSS v3.0 Temporal Score

3.1 (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:P/I:N/A:N)

## CVSS v2.0 Temporal Score

---

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

## References

---

BID	70574
CVE	CVE-2014-3566
XREF	CERT:577193

## Plugin Information

---

Published: 2014/10/15, Modified: 2023/06/23

## Plugin Output

---

192.168.50.101 (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.

192.168.50.101 (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.

## 10407 (1) - 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

192.168.50.101 (tcp/6000/x11)

```
X11 Version : 11.0
```



## 70658 (1) - 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 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)

### VPR Score

3.6

### 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	32319
CVE	CVE-2008-5161
XREF	CERT:958563
XREF	CWE:200

### Plugin Information

## Plugin Output

---

192.168.50.101 (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
```

## 71049 (1) - 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 Information

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

### Plugin Output

192.168.50.101 (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-md5-96  
  hmac-sha1-96
```

## 83738 (1) - 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)

### VPR Score

4.5

### 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

192.168.50.101 (tcp/25/smtp)

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}  
Kex={key exchange}  
Auth={authentication}  
Encrypt={symmetric encryption method}  
MAC={message authentication code}  
{export flag}

## 153953 (1) - 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.

### See Also

<http://www.nessus.org/u?b02d91cd>

<https://datatracker.ietf.org/doc/html/rfc8732>

### 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)

### CVSS v2.0 Base Score

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

## Plugin Information

---

Published: 2021/10/13, Modified: 2021/10/13

## Plugin Output

---

192.168.50.101 (tcp/22/ssh)

The following weak key exchange algorithms are enabled :

```
diffie-hellman-group-exchange-sha1
diffie-hellman-group1-sha1
```

## 11219 (17) - Nessus SYN scanner

### Synopsis

It is possible to determine which TCP ports are open.

### Description

This plugin is a SYN 'half-open' port scanner. It shall be reasonably quick even against a firewalled target.

Note that SYN scans are less intrusive than TCP (full connect) scans against broken services, but they might cause problems for less robust firewalls and also leave unclosed connections on the remote target, if the network is loaded.

### Solution

Protect your target with an IP filter.

### Risk Factor

None

### Plugin Information

Published: 2009/02/04, Modified: 2023/09/25

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
Port 22/tcp was found to be open
```

192.168.50.101 (tcp/25/smtp)

```
Port 25/tcp was found to be open
```

192.168.50.101 (tcp/53/dns)

```
Port 53/tcp was found to be open
```

192.168.50.101 (tcp/80/www)

```
Port 80/tcp was found to be open
```

192.168.50.101 (tcp/111/rpc-portmapper)



Port 111/tcp was found to be open

192.168.50.101 (tcp/139/smb)

Port 139/tcp was found to be open

192.168.50.101 (tcp/445/cifs)

Port 445/tcp was found to be open

192.168.50.101 (tcp/1099/rmi\_registry)

Port 1099/tcp was found to be open

192.168.50.101 (tcp/2049/rpc-nfs)

Port 2049/tcp was found to be open

192.168.50.101 (tcp/2121)

Port 2121/tcp was found to be open

192.168.50.101 (tcp/3306)

Port 3306/tcp was found to be open

192.168.50.101 (tcp/3632)

Port 3632/tcp was found to be open

192.168.50.101 (tcp/5432/postgresql)

Port 5432/tcp was found to be open

192.168.50.101 (tcp/5900/vnc)

Port 5900/tcp was found to be open

192.168.50.101 (tcp/6000/x11)

Port 6000/tcp was found to be open

192.168.50.101 (tcp/6667/irc)

Port 6667/tcp was found to be open

192.168.50.101 (tcp/8787)

Port 8787/tcp was found to be open

## 11111 (10) - RPC Services Enumeration

### Synopsis

An ONC RPC service is running on the remote host.

### Description

By sending a DUMP request to the portmapper, it was possible to enumerate the ONC RPC services running on the remote port. Using this information, it is possible to connect and bind to each service by sending an RPC request to the remote port.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2002/08/24, Modified: 2011/05/24

### Plugin Output

192.168.50.101 (tcp/111/rpc-portmapper)

```
The following RPC services are available on TCP port 111 :
```

```
- program: 100000 (portmapper), version: 2
```

192.168.50.101 (udp/111/rpc-portmapper)

```
The following RPC services are available on UDP port 111 :
```

```
- program: 100000 (portmapper), version: 2
```

192.168.50.101 (tcp/2049/rpc-nfs)

```
The following RPC services are available on TCP port 2049 :
```

```
- program: 100003 (nfs), version: 2  
- program: 100003 (nfs), version: 3  
- program: 100003 (nfs), version: 4
```

192.168.50.101 (udp/2049/rpc-nfs)

The following RPC services are available on UDP port 2049 :

- program: 100003 (nfs), version: 2
- program: 100003 (nfs), version: 3
- program: 100003 (nfs), version: 4

#### 192.168.50.101 (tcp/33832/rpc-mountd)

The following RPC services are available on TCP port 33832 :

- program: 100005 (mountd), version: 1
- program: 100005 (mountd), version: 2
- program: 100005 (mountd), version: 3

#### 192.168.50.101 (udp/36022/rpc-nlockmgr)

The following RPC services are available on UDP port 36022 :

- program: 100021 (nlockmgr), version: 1
- program: 100021 (nlockmgr), version: 3
- program: 100021 (nlockmgr), version: 4

#### 192.168.50.101 (udp/38195/rpc-status)

The following RPC services are available on UDP port 38195 :

- program: 100024 (status), version: 1

#### 192.168.50.101 (udp/50943/rpc-mountd)

The following RPC services are available on UDP port 50943 :

- program: 100005 (mountd), version: 1
- program: 100005 (mountd), version: 2
- program: 100005 (mountd), version: 3

#### 192.168.50.101 (tcp/52467/rpc-status)

The following RPC services are available on TCP port 52467 :

- program: 100024 (status), version: 1

#### 192.168.50.101 (tcp/60092/rpc-nlockmgr)

The following RPC services are available on TCP port 60092 :

- program: 100021 (nlockmgr), version: 1
- program: 100021 (nlockmgr), version: 3

```
- program: 100021 (nlockmgr), version: 4
```

## 22964 (4) - Service Detection

### Synopsis

The remote service could be identified.

### Description

Nessus was able to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2007/08/19, Modified: 2023/07/10

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
An SSH server is running on this port.
```

192.168.50.101 (tcp/25/smtp)

```
An SMTP server is running on this port.
```

192.168.50.101 (tcp/80/www)

```
A web server is running on this port.
```

192.168.50.101 (tcp/5900/vnc)

```
A vnc server is running on this port.
```

## 10863 (2) - SSL Certificate Information

### Synopsis

This plugin displays the SSL certificate.

### Description

This plugin connects to every SSL-related port and attempts to extract and dump the X.509 certificate.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2008/05/19, Modified: 2021/02/03

### Plugin Output

192.168.50.101 (tcp/25/smtp)

```
Subject Name:

Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain

Issuer Name:

Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain

Serial Number: 00 FA F9 3A 4C 7F B6 B9 CC

Version: 1

Signature Algorithm: SHA-1 With RSA Encryption

Not Valid Before: Mar 17 14:07:45 2010 GMT
Not Valid After: Apr 16 14:07:45 2010 GMT

Public Key Info:
```

```
Algorithm: RSA Encryption
Key Length: 1024 bits
Public Key: 00 D6 B4 13 36 33 9A 95 71 7B 1B DE 7C 83 75 DA 71 B1 3C A9
            7F FE AD 64 1B 77 E9 4F AE BE CA D4 F8 CB EF AE BB 43 79 24
            73 FF 3C E5 9E 3B 6D FC C8 B1 AC FA 4C 4D 5E 9B 4C 99 54 0B
            D7 A8 4A 50 BA A9 DE 1D 1F F4 E4 6B 02 A3 F4 6B 45 CD 4C AF
            8D 89 62 33 8F 65 BB 36 61 9F C4 2C 73 C1 4E 2E A0 A8 14 4E
            98 70 46 61 BB D1 B9 31 DF 8C 99 EE 75 6B 79 3C 40 A0 AE 97
            00 90 9D DC 99 0D 33 A4 B5
Exponent: 01 00 01

Signature Length: 128 bytes / 1024 bits
Signature: 00 92 A4 B4 B8 14 55 63 25 51 4A 0B C3 2A 22 CF 3A F8 17 6A
           0C CF 66 AA A7 65 2F 48 6D CD E3 3E 5C 9F 77 6C D4 44 54 1F
           1E 84 4F 8E D4 8D DD AC 2D 88 09 21 A8 DA 56 2C A9 05 3C 49
           68 35 19 75 0C DA 53 23 88 88 19 2D 74 26 C1 22 65 EE 11 68
           83 6A 53 4A 9C 27 CB A0 B4 E9 8D 29 0C B2 3C 18 5C 67 CC 53
           A6 1E 30 D0 AA 26 7B 1E AE 40 B9 29 01 6C 2E BC A2 19 94 7C
           15 6E 8D 30 38 F6 CA 2E 75

Fingerprints :

SHA-256 Fingerprint: E7 A7 FA 0D 63 E4 57 C7 C4 A5 9B 38 B7 08 49 C6 A7 0B DA 6F
                    83 0C 7A F1 E3 2D EE 43 6D E8 13 CC
SHA-1 Fingerprint: ED 09 30 88 70 66 03 BF D5 DC 23 73 99 B4 98 DA 2D [...]
```

192.168.50.101 (tcp/5432/postgresql)

```
Subject Name:

Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain

Issuer Name:

Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain

Serial Number: 00 FA F9 3A 4C 7F B6 B9 CC

Version: 1

Signature Algorithm: SHA-1 With RSA Encryption

Not Valid Before: Mar 17 14:07:45 2010 GMT
Not Valid After: Apr 16 14:07:45 2010 GMT

Public Key Info:

Algorithm: RSA Encryption
Key Length: 1024 bits
Public Key: 00 D6 B4 13 36 33 9A 95 71 7B 1B DE 7C 83 75 DA 71 B1 3C A9
            7F FE AD 64 1B 77 E9 4F AE BE CA D4 F8 CB EF AE BB 43 79 24
            73 FF 3C E5 9E 3B 6D FC C8 B1 AC FA 4C 4D 5E 9B 4C 99 54 0B
            D7 A8 4A 50 BA A9 DE 1D 1F F4 E4 6B 02 A3 F4 6B 45 CD 4C AF
            8D 89 62 33 8F 65 BB 36 61 9F C4 2C 73 C1 4E 2E A0 A8 14 4E
            98 70 46 61 BB D1 B9 31 DF 8C 99 EE 75 6B 79 3C 40 A0 AE 97
            00 90 9D DC 99 0D 33 A4 B5
```



Exponent: 01 00 01

Signature Length: 128 bytes / 1024 bits

Signature: 00 92 A4 B4 B8 14 55 63 25 51 4A 0B C3 2A 22 CF 3A F8 17 6A  
0C CF 66 AA A7 65 2F 48 6D CD E3 3E 5C 9F 77 6C D4 44 54 1F  
1E 84 4F 8E D4 8D DD AC 2D 88 09 21 A8 DA 56 2C A9 05 3C 49  
68 35 19 75 0C DA 53 23 88 88 19 2D 74 26 C1 22 65 EE 11 68  
83 6A 53 4A 9C 27 CB A0 B4 E9 8D 29 0C B2 3C 18 5C 67 CC 53  
A6 1E 30 D0 AA 26 7B 1E AE 40 B9 29 01 6C 2E BC A2 19 94 7C  
15 6E 8D 30 38 F6 CA 2E 75

Fingerprints :

SHA-256 Fingerprint: E7 A7 FA 0D 63 E4 57 C7 C4 A5 9B 38 B7 08 49 C6 A7 0B DA 6F  
83 0C 7A F1 E3 2D EE 43 6D E8 13 CC

SHA-1 Fingerprint: ED 09 30 88 70 66 03 BF D5 DC 23 73 99 B4 98 DA 2D [...]

## 11002 (2) - DNS Server Detection

### Synopsis

A DNS server is listening on the remote host.

### Description

The remote service is a Domain Name System (DNS) server, which provides a mapping between hostnames and IP addresses.

### See Also

[https://en.wikipedia.org/wiki/Domain\\_Name\\_System](https://en.wikipedia.org/wiki/Domain_Name_System)

### Solution

Disable this service if it is not needed or restrict access to internal hosts only if the service is available externally.

### Risk Factor

None

### Plugin Information

Published: 2003/02/13, Modified: 2017/05/16

### Plugin Output

192.168.50.101 (tcp/53/dns)  
192.168.50.101 (udp/53/dns)

## 11011 (2) - Microsoft Windows SMB Service Detection

### Synopsis

A file / print sharing service is listening on the remote host.

### Description

The remote service understands the CIFS (Common Internet File System) or Server Message Block (SMB) protocol, used to provide shared access to files, printers, etc between nodes on a network.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2002/06/05, Modified: 2021/02/11

### Plugin Output

192.168.50.101 (tcp/139/smb)

```
An SMB server is running on this port.
```

192.168.50.101 (tcp/445/cifs)

```
A CIFS server is running on this port.
```

## 21643 (2) - SSL Cipher Suites Supported

### Synopsis

The remote service encrypts communications using SSL.

### Description

This plugin detects which SSL ciphers are supported by the remote service for encrypting communications.

### See Also

<https://www.openssl.org/docs/man1.0.2/man1/ciphers.html>

<http://www.nessus.org/u?e17ffced>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2006/06/05, Modified: 2023/07/10

### Plugin Output

192.168.50.101 (tcp/25/smtp)

Here is the list of SSL ciphers supported by the remote server :  
Each group is reported per SSL Version.

SSL Version : TLSv1

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)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC (56)	
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
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC (56)	
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA (512)	RSA	DES-CBC (40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA (512)	RSA	RC2-CBC (40)	MD5

EXP-RC4-MD5 export	0x00, 0x03	RSA (512)	RSA	RC4 (40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC (56)	
Medium Strength Ciphers (> 64-bit and < 112-bit key, or 3DES)					
Name -----	Code -----	KEX ---	Auth ----	Encryption -----	MAC ---
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	
ADH-DES-CBC3-SHA SHA1	0x00, 0x1B	DH	None	3DES-CBC (168)	
DES-CBC3-SHA SHA1	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	
High Strength Ciphers (>= 112-bit key)					
Name	Code	KEX	Auth	[...]	

192.168.50.101 (tcp/5432/postgresql)

Here is the list of SSL ciphers supported by the remote server :  
Each group is reported per SSL Version.

SSL Version : TLSv1

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

Name -----	Code -----	KEX ---	Auth ----	Encryption -----	MAC ---
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	
DES-CBC3-SHA SHA1	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

Name -----	Code -----	KEX ---	Auth ----	Encryption -----	MAC ---
DHE-RSA-AES128-SHA SHA1	0x00, 0x33	DH	RSA	AES-CBC (128)	
DHE-RSA-AES256-SHA SHA1	0x00, 0x39	DH	RSA	AES-CBC (256)	
AES128-SHA SHA1	0x00, 0x2F	RSA	RSA	AES-CBC (128)	
AES256-SHA SHA1	0x00, 0x35	RSA	RSA	AES-CBC (256)	
RC4-SHA SHA1	0x00, 0x05	RSA	RSA	RC4 (128)	

SSL Version : SSLv3

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

Name -----	Code -----	KEX ---	Auth ----	Encryption -----	MAC ---
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC (168)	
DES-CBC3-SHA SHA1	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	

High Strength Ciphers (>= 112-bit key)

Name -----	Code -----	KEX ---	Auth [...]	Encryption	MAC
---------------	---------------	------------	---------------	------------	-----

## 22227 (2) - RMI Registry Detection

### Synopsis

An RMI registry is listening on the remote host.

### Description

The remote host is running an RMI registry, which acts as a bootstrap naming service for registering and retrieving remote objects with simple names in the Java Remote Method Invocation (RMI) system.

### See Also

<https://docs.oracle.com/javase/1.5.0/docs/guide/rmi/spec/rmiTOC.html>

<http://www.nessus.org/u?b6fd7659>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2006/08/16, Modified: 2022/06/01

### Plugin Output

192.168.50.101 (tcp/1099/rmi\_registry)  
192.168.50.101 (tcp/1099/rmi\_registry)

Valid response recieved for port 1099:

0x00:	51 AC ED 00 05 77 0F 01 DE 43 65 8B 00 00 01 8D	Q...w...Ce.....
0x10:	52 58 24 18 80 02 75 72 00 13 5B 4C 6A 61 76 61	RX\$...ur..[Ljava
0x20:	2E 6C 61 6E 67 2E 53 74 72 69 6E 67 3B AD D2 56	.lang.String;..V
0x30:	E7 E9 1D 7B 47 02 00 00 70 78 70 00 00 00 00	...{G...pxp....

## 45410 (2) - SSL Certificate 'commonName' Mismatch

### Synopsis

The 'commonName' (CN) attribute in the SSL certificate does not match the hostname.

### Description

The service running on the remote host presents an SSL certificate for which the 'commonName' (CN) attribute does not match the hostname on which the service listens.

### Solution

If the machine has several names, make sure that users connect to the service through the DNS hostname that matches the common name in the certificate.

### Risk Factor

None

### Plugin Information

Published: 2010/04/03, Modified: 2021/03/09

### Plugin Output

192.168.50.101 (tcp/25/smtp)

The host name known by Nessus is :

metasploitable

The Common Name in the certificate is :

ubuntu804-base.localdomain

192.168.50.101 (tcp/5432/postgresql)

The host name known by Nessus is :

metasploitable

The Common Name in the certificate is :

ubuntu804-base.localdomain

## 50845 (2) - OpenSSL Detection

### Synopsis

The remote service appears to use OpenSSL to encrypt traffic.

### Description

Based on its response to a TLS request with a specially crafted server name extension, it seems that the remote service is using the OpenSSL library to encrypt traffic.

Note that this plugin can only detect OpenSSL implementations that have enabled support for TLS extensions (RFC 4366).

### See Also

<https://www.openssl.org/>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2010/11/30, Modified: 2020/06/12

### Plugin Output

192.168.50.101 (tcp/25/smtp)  
192.168.50.101 (tcp/5432/postgresql)



## 56984 (2) - SSL / TLS Versions Supported

### Synopsis

The remote service encrypts communications.

### Description

This plugin detects which SSL and TLS versions are supported by the remote service for encrypting communications.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2011/12/01, Modified: 2023/07/10

### Plugin Output

192.168.50.101 (tcp/25/smtp)

```
This port supports SSLv2/SSLv3/TLSv1.0.
```

192.168.50.101 (tcp/5432/postgresql)

```
This port supports SSLv3/TLSv1.0.
```

## 57041 (2) - SSL Perfect Forward Secrecy Cipher Suites Supported

### Synopsis

The remote service supports the use of SSL Perfect Forward Secrecy ciphers, which maintain confidentiality even if the key is stolen.

### Description

The remote host supports the use of SSL ciphers that offer Perfect Forward Secrecy (PFS) encryption. These cipher suites ensure that recorded SSL traffic cannot be broken at a future date if the server's private key is compromised.

### See Also

<https://www.openssl.org/docs/manmaster/man1/ciphers.html>

[https://en.wikipedia.org/wiki/Diffie-Hellman\\_key\\_exchange](https://en.wikipedia.org/wiki/Diffie-Hellman_key_exchange)

[https://en.wikipedia.org/wiki/Perfect\\_forward\\_secrecy](https://en.wikipedia.org/wiki/Perfect_forward_secrecy)

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2011/12/07, Modified: 2021/03/09

### Plugin Output

192.168.50.101 (tcp/25/smtp)

Here is the list of SSL PFS ciphers 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)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC(56)	

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

    High Strength Ciphers (>= 112-bit key)

    Name                      Code          KEX      Auth      Encryption      MAC
    -----
    DHE-RSA-AES128-SHA      0x00, 0x33    DH      RSA      AES-CBC(128)
SHA1
    DHE-RSA-AES256-SHA      0x00, 0x39    DH      RSA      AES-CBC(256)
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}

```

192.168.50.101 (tcp/5432/postgresql)

Here is the list of SSL PFS ciphers supported by the remote server :

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					

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	---	-----	---
DHE-RSA-AES128-SHA	0x00, 0x33	DH	RSA	AES-CBC(128)	
SHA1					
DHE-RSA-AES256-SHA	0x00, 0x39	DH	RSA	AES-CBC(256)	
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}

```

## 62563 (2) - SSL Compression Methods Supported

### Synopsis

The remote service supports one or more compression methods for SSL connections.

### Description

This script detects which compression methods are supported by the remote service for SSL connections.

### See Also

<http://www.iana.org/assignments/comp-meth-ids/comp-meth-ids.xml>

<https://tools.ietf.org/html/rfc3749>

<https://tools.ietf.org/html/rfc3943>

<https://tools.ietf.org/html/rfc5246>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2012/10/16, Modified: 2022/04/11

### Plugin Output

192.168.50.101 (tcp/25/smtp)

```
Nessus was able to confirm that the following compression method is
supported by the target :
```

```
DEFLATE (0x01)
```

192.168.50.101 (tcp/5432/postgresql)

```
Nessus was able to confirm that the following compression method is
supported by the target :
```

```
DEFLATE (0x01)
```

## 70544 (2) - SSL Cipher Block Chaining Cipher Suites Supported

### Synopsis

The remote service supports the use of SSL Cipher Block Chaining ciphers, which combine previous blocks with subsequent ones.

### Description

The remote host supports the use of SSL ciphers that operate in Cipher Block Chaining (CBC) mode. These cipher suites offer additional security over Electronic Codebook (ECB) mode, but have the potential to leak information if used improperly.

### See Also

<https://www.openssl.org/docs/manmaster/man1/ciphers.html>

<http://www.nessus.org/u?cc4a822a>

<https://www.openssl.org/~bodo/tls-cbc.txt>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2013/10/22, Modified: 2021/02/03

### Plugin Output

192.168.50.101 (tcp/25/smtp)

Here is the list of SSL CBC ciphers supported by the remote server :

Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA(512)	RSA	RC2-CBC(40)	MD5
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH(512)	RSA	DES-CBC(40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC(56)	
EXP-ADH-DES-CBC-SHA SHA1 export	0x00, 0x19	DH(512)	None	DES-CBC(40)	
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC(56)	

```

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
DES-CBC-SHA              0x00, 0x09      RSA         RSA      DES-CBC(56)
SHA1

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

Name                      Code                KEX          Auth      Encryption          MAC
-----
DES-CBC3-MD5              0x07, 0x00, 0xC0    RSA          RSA      3DES-CBC(168)      MD5
EDH-RSA-DES-CBC3-SHA      0x00, 0x16          DH           RSA      3DES-CBC(168)
SHA1
ADH-DES-CBC3-SHA          0x00, 0x1B          DH           None     3DES-CBC(168)
SHA1
DES-CBC3-SHA              0x00, 0x0A          RSA          RSA      3DES-CBC(168)
SHA1

High Strength Ciphers (>= 112-bit key)

Name                      Code                KEX          Auth      Encryption          MAC
-----
[...]
```

192.168.50.101 (tcp/5432/postgresql)

Here is the list of SSL CBC ciphers supported by the remote server :

```

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

High Strength Ciphers (>= 112-bit key)

Name                      Code                KEX          Auth      Encryption          MAC
-----
DHE-RSA-AES128-SHA        0x00, 0x33          DH           RSA      AES-CBC(128)
SHA1
DHE-RSA-AES256-SHA        0x00, 0x39          DH           RSA      AES-CBC(256)
SHA1
AES128-SHA                0x00, 0x2F          RSA          RSA      AES-CBC(128)
SHA1
AES256-SHA                0x00, 0x35          RSA          RSA      AES-CBC(256)
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}
```

## 156899 (2) - SSL/TLS Recommended Cipher Suites

### Synopsis

The remote host advertises discouraged SSL/TLS ciphers.

### Description

The remote host has open SSL/TLS ports which advertise discouraged cipher suites. It is recommended to only enable support for the following cipher suites:

TLSv1.3:

- 0x13,0x01 TLS13\_AES\_128\_GCM\_SHA256
- 0x13,0x02 TLS13\_AES\_256\_GCM\_SHA384
- 0x13,0x03 TLS13\_CHACHA20\_POLY1305\_SHA256

TLSv1.2:

- 0xC0,0x2B ECDHE-ECDSA-AES128-GCM-SHA256
- 0xC0,0x2F ECDHE-RSA-AES128-GCM-SHA256
- 0xC0,0x2C ECDHE-ECDSA-AES256-GCM-SHA384
- 0xC0,0x30 ECDHE-RSA-AES256-GCM-SHA384
- 0xCC,0xA9 ECDHE-ECDSA-CHACHA20-POLY1305
- 0xCC,0xA8 ECDHE-RSA-CHACHA20-POLY1305
- 0x00,0x9E DHE-RSA-AES128-GCM-SHA256
- 0x00,0x9F DHE-RSA-AES256-GCM-SHA384

This is the recommended configuration for the vast majority of services, as it is highly secure and compatible with nearly every client released in the last five (or more) years.

### See Also

[https://wiki.mozilla.org/Security/Server\\_Side\\_TLS](https://wiki.mozilla.org/Security/Server_Side_TLS)

<https://ssl-config.mozilla.org/>

### Solution

Only enable support for recommended cipher suites.

### Risk Factor

None

### Plugin Information

Published: 2022/01/20, Modified: 2023/07/10

## Plugin Output

### 192.168.50.101 (tcp/25/smtp)

The remote host has listening SSL/TLS ports which advertise the discouraged cipher suites outlined below:

#### Low Strength Ciphers (<= 64-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	---	-----	---
EXP-RC2-CBC-MD5 export	0x04, 0x00, 0x80	RSA(512)	RSA	RC2-CBC(40)	MD5
EXP-RC4-MD5 export	0x02, 0x00, 0x80	RSA(512)	RSA	RC4(40)	MD5
EXP-EDH-RSA-DES-CBC-SHA SHA1 export	0x00, 0x14	DH(512)	RSA	DES-CBC(40)	
EDH-RSA-DES-CBC-SHA SHA1	0x00, 0x15	DH	RSA	DES-CBC(56)	
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
ADH-DES-CBC-SHA SHA1	0x00, 0x1A	DH	None	DES-CBC(56)	
EXP-DES-CBC-SHA SHA1 export	0x00, 0x08	RSA(512)	RSA	DES-CBC(40)	
EXP-RC2-CBC-MD5 export	0x00, 0x06	RSA(512)	RSA	RC2-CBC(40)	MD5
EXP-RC4-MD5 export	0x00, 0x03	RSA(512)	RSA	RC4(40)	MD5
DES-CBC-SHA SHA1	0x00, 0x09	RSA	RSA	DES-CBC(56)	

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

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	---	-----	---
DES-CBC3-MD5	0x07, 0x00, 0xC0	RSA	RSA	3DES-CBC(168)	MD5
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC(168)	
ADH-DE [...]					

### 192.168.50.101 (tcp/5432/postgresql)

The remote host has listening SSL/TLS ports which advertise the discouraged cipher suites outlined below:

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

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	---	-----	---
EDH-RSA-DES-CBC3-SHA SHA1	0x00, 0x16	DH	RSA	3DES-CBC(168)	
DES-CBC3-SHA SHA1	0x00, 0x0A	RSA	RSA	3DES-CBC(168)	

#### High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	---	-----	---
DHE-RSA-AES128-SHA SHA1	0x00, 0x33	DH	RSA	AES-CBC(128)	



DHE-RSA-AES256-SHA SHA1	0x00, 0x39	DH	RSA	AES-CBC(256)
AES128-SHA SHA1	0x00, 0x2F	RSA	RSA	AES-CBC(128)
AES256-SHA SHA1	0x00, 0x35	RSA	RSA	AES-CBC(256)
RC4-SHA SHA1	0x00, 0x05	RSA	RSA	RC4(128)

The fields above are :

```
{Tenable ciphername}
{Cipher ID code}
Kex={key exchange}
Auth={authentication}
Encrypt={symmetric encryption method}
MAC={message authentication code}
{export flag}
```

## 10028 (1) - DNS Server BIND version Directive Remote Version Detection

### Synopsis

It is possible to obtain the version number of the remote DNS server.

### Description

The remote host is running BIND or another DNS server that reports its version number when it receives a special request for the text 'version.bind' in the domain 'chaos'.

This version is not necessarily accurate and could even be forged, as some DNS servers send the information based on a configuration file.

### Solution

It is possible to hide the version number of BIND by using the 'version' directive in the 'options' section in named.conf.

### Risk Factor

None

### References

XREF IAVT:0001-T-0583

### Plugin Information

Published: 1999/10/12, Modified: 2022/10/12

### Plugin Output

192.168.50.101 (udp/53/dns)

Version : 9.4.2

## 10107 (1) - HTTP Server Type and Version

### Synopsis

A web server is running on the remote host.

### Description

This plugin attempts to determine the type and the version of the remote web server.

### Solution

n/a

### Risk Factor

None

### References

XREF IAVT:0001-T-0931

### Plugin Information

Published: 2000/01/04, Modified: 2020/10/30

### Plugin Output

192.168.50.101 (tcp/80/www)

The remote web server type is :

Apache/2.2.8 (Ubuntu) DAV/2

## 10114 (1) - ICMP Timestamp Request Remote Date Disclosure

### Synopsis

It is possible to determine the exact time set on the remote host.

### Description

The remote host answers to an ICMP timestamp request. This allows an attacker to know the date that is set on the targeted machine, which may assist an unauthenticated, remote attacker in defeating time-based authentication protocols.

Timestamps returned from machines running Windows Vista / 7 / 2008 / 2008 R2 are deliberately incorrect, but usually within 1000 seconds of the actual system time.

### Solution

Filter out the ICMP timestamp requests (13), and the outgoing ICMP timestamp replies (14).

### Risk Factor

None

### CVSS v3.0 Base Score

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

### CVSS v2.0 Base Score

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

### References

CVE CVE-1999-0524

XREF CWE:200

### Plugin Information

Published: 1999/08/01, Modified: 2023/04/27

### Plugin Output

192.168.50.101 (icmp/0)

```
The difference between the local and remote clocks is -13 seconds.
```

## 10150 (1) - Windows NetBIOS / SMB Remote Host Information Disclosure

### Synopsis

It was possible to obtain the network name of the remote host.

### Description

The remote host is listening on UDP port 137 or TCP port 445, and replies to NetBIOS nbtscan or SMB requests.

Note that this plugin gathers information to be used in other plugins, but does not itself generate a report.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 1999/10/12, Modified: 2021/02/10

### Plugin Output

192.168.50.101 (udp/137/netbios-ns)

The following 5 NetBIOS names have been gathered :

```
METASPLOITABLE = Computer name
METASPLOITABLE = Messenger Service
METASPLOITABLE = File Server Service
WORKGROUP      = Workgroup / Domain name
WORKGROUP      = Browser Service Elections
```

This SMB server seems to be a Samba server - its MAC address is NULL.

## 10223 (1) - RPC portmapper Service Detection

### Synopsis

An ONC RPC portmapper is running on the remote host.

### Description

The RPC portmapper is running on this port.

The portmapper allows someone to get the port number of each RPC service running on the remote host by sending either multiple lookup requests or a DUMP request.

### Solution

n/a

### Risk Factor

None

### CVSS v3.0 Base Score

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

### CVSS v2.0 Base Score

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

### References

CVE CVE-1999-0632

### Plugin Information

Published: 1999/08/19, Modified: 2019/10/04

### Plugin Output

192.168.50.101 (udp/111/rpc-portmapper)

## 10263 (1) - SMTP Server Detection

### Synopsis

An SMTP server is listening on the remote port.

### Description

The remote host is running a mail (SMTP) server on this port.

Since SMTP servers are the targets of spammers, it is recommended you disable it if you do not use it.

### Solution

Disable this service if you do not use it, or filter incoming traffic to this port.

### Risk Factor

None

### References

XREF IAVT:0001-T-0932

### Plugin Information

Published: 1999/10/12, Modified: 2020/09/22

### Plugin Output

192.168.50.101 (tcp/25/smtp)

Remote SMTP server banner :

220 metasploitable.localdomain ESMTP Postfix (Ubuntu)

## 10267 (1) - SSH Server Type and Version Information

### Synopsis

An SSH server is listening on this port.

### Description

It is possible to obtain information about the remote SSH server by sending an empty authentication request.

### Solution

n/a

### Risk Factor

None

### References

XREF IAVT:0001-T-0933

### Plugin Information

Published: 1999/10/12, Modified: 2020/09/22

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
SSH version : SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntu1
SSH supported authentication : publickey,password
```



## 10287 (1) - Traceroute Information

### Synopsis

It was possible to obtain traceroute information.

### Description

Makes a traceroute to the remote host.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 1999/11/27, Modified: 2023/12/04

### Plugin Output

192.168.50.101 (udp/0)

```
For your information, here is the traceroute from 192.168.50.100 to 192.168.50.101 :  
192.168.50.100  
192.168.50.101
```

```
Hop Count: 1
```

## 10342 (1) - VNC Software Detection

### Synopsis

The remote host is running a remote display software (VNC).

### Description

The remote host is running VNC (Virtual Network Computing), which uses the RFB (Remote Framebuffer) protocol to provide remote access to graphical user interfaces and thus permits a console on the remote host to be displayed on another.

### See Also

<https://en.wikipedia.org/wiki/Vnc>

### Solution

Make sure use of this software is done in accordance with your organization's security policy and filter incoming traffic to this port.

### Risk Factor

None

### Plugin Information

Published: 2000/03/07, Modified: 2017/06/12

### Plugin Output

192.168.50.101 (tcp/5900/vnc)

```
The highest RFB protocol version supported by the server is :
```

```
3.3
```

## 10397 (1) - Microsoft Windows SMB LanMan Pipe Server Listing Disclosure

### Synopsis

It is possible to obtain network information.

### Description

It was possible to obtain the browse list of the remote Windows system by sending a request to the LANMAN pipe. The browse list is the list of the nearest Windows systems of the remote host.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2000/05/09, Modified: 2022/02/01

### Plugin Output

192.168.50.101 (tcp/445/cifs)

```
Here is the browse list of the remote host :
```

```
METASPLOITABLE ( os : 0.0 )
```

## 10437 (1) - NFS Share Export List

### Synopsis

The remote NFS server exports a list of shares.

### Description

This plugin retrieves the list of NFS exported shares.

### See Also

<http://www.tldp.org/HOWTO/NFS-HOWTO/security.html>

### Solution

Ensure each share is intended to be exported.

### Risk Factor

None

### Plugin Information

Published: 2000/06/07, Modified: 2019/10/04

### Plugin Output

192.168.50.101 (tcp/2049/rpc-nfs)

```
Here is the export list of 192.168.50.101 :  
  
/ 192.168.50.101
```

## 10785 (1) - Microsoft Windows SMB NativeLanManager Remote System Information Disclosure

### Synopsis

It was possible to obtain information about the remote operating system.

### Description

Nessus was able to obtain the remote operating system name and version (Windows and/or Samba) by sending an authentication request to port 139 or 445. Note that this plugin requires SMB to be enabled on the host.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2001/10/17, Modified: 2021/09/20

### Plugin Output

192.168.50.101 (tcp/445/cifs)

```
The remote Operating System is : Unix
The remote native LAN manager is : Samba 3.0.20-Debian
The remote SMB Domain Name is : METASPLOITABLE
```

## 10881 (1) - SSH Protocol Versions Supported

### Synopsis

A SSH server is running on the remote host.

### Description

This plugin determines the versions of the SSH protocol supported by the remote SSH daemon.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2002/03/06, Modified: 2021/01/19

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
The remote SSH daemon supports the following versions of the  
SSH protocol :
```

- 1.99
- 2.0

## 11154 (1) - Unknown Service Detection: Banner Retrieval

### Synopsis

There is an unknown service running on the remote host.

### Description

Nessus was unable to identify a service on the remote host even though it returned a banner of some type.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2002/11/18, Modified: 2022/07/26

### Plugin Output

192.168.50.101 (tcp/8787)

If you know what this service is and think the banner could be used to identify it, please send a description of the service along with the following output to [svc-signatures@nessus.org](mailto:svc-signatures@nessus.org) :

```
Port      : 8787
Type      : get_http
Banner    :
0x0000:  00 00 00 03 04 08 46 00 00 03 A1 04 08 6F 3A 16  ....F.....O:.
0x0010:  44 52 62 3A 3A 44 52 62 43 6F 6E 6E 45 72 72 6F  DRb::DRbConnErro
0x0020:  72 07 3A 07 62 74 5B 17 22 2F 2F 75 73 72 2F 6C  r.:.bt["./usr/l
0x0030:  69 62 2F 72 75 62 79 2F 31 2E 38 2F 64 72 62 2F  ib/ruby/1.8/dr
0x0040:  64 72 62 2E 72 62 3A 35 37 33 3A 69 6E 20 60 6C  drb.rb:573:in `l
0x0050:  6F 61 64 27 22 37 2F 75 73 72 2F 6C 69 62 2F 72  oad'"7/usr/lib/r
0x0060:  75 62 79 2F 31 2E 38 2F 64 72 62 2F 64 72 62 2E  uby/1.8/dr
0x0070:  72 62 3A 36 31 32 3A 69 6E 20 60 72 65 63 76 5F  rb:612:in `recv_
0x0080:  72 65 71 75 65 73 74 27 22 37 2F 75 73 72 2F 6C  request'"7/usr/l
0x0090:  69 62 2F 72 75 62 79 2F 31 2E 38 2F 64 72 62 2F  ib/ruby/1.8/dr
0x00A0:  64 72 62 2E 72 62 3A 39 31 31 3A 69 6E 20 60 72  drb.rb:911:in `r
0x00B0:  65 63 76 5F 72 65 71 75 65 73 74 27 22 3C 2F 75  ecv_request'"</u
0x00C0:  73 72 2F 6C 69 62 2F 72 75 62 79 2F 31 2E 38 2F  sr/lib/ruby/1.8/
0x00D0:  64 72 62 2F 64 72 62 2E 72 62 3A 31 35 33 30 3A  drb/dr
0x00E0:  69 6E 20 60 69 6E 69 74 5F 77 69 74 68 5F 63 6C  in `init_with_cl
0x00F0:  69 65 6E 74 27 22 39 2F 75 73 72 2F 6C 69 62 2F  ient'"9/usr/lib/
0x0100:  72 75 62 79 2F 31 2E 38 2F 64 72 62 2F 64 72 62  ruby/1.8/dr
0x0110:  2E 72 62 3A 31 35 34 32 3A 69 6E 20 60 73 65 74  .rb:1542:in `set
0x0120:  75 70 5F 6D 65 73 73 61 67 65 27 22 33 2F 75 73  up_message'"3/us
0x0130:  72 2F 6C 69 62 2F 72 75 62 79 2F 31 2E 38 2F 64  r/lib/ruby/1.8/d
0x0140:  72 62 2F 64 72 62 2E 72 62 3A 31 34 39 34  [...]

```

## 11156 (1) - IRC Daemon Version Detection

### Synopsis

The remote host is an IRC server.

### Description

This plugin determines the version of the IRC daemon.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2002/11/19, Modified: 2016/01/08

### Plugin Output

192.168.50.101 (tcp/6667/irc)

```
The IRC server version is : Unreal3.2.8.1. FhiXOoE [*=2309]
```



## 11424 (1) - WebDAV Detection

### Synopsis

The remote server is running with WebDAV enabled.

### Description

WebDAV is an industry standard extension to the HTTP specification.

It adds a capability for authorized users to remotely add and manage the content of a web server.

If you do not use this extension, you should disable it.

### Solution

<http://support.microsoft.com/default.aspx?kbid=241520>

### Risk Factor

None

### Plugin Information

Published: 2003/03/20, Modified: 2011/03/14

### Plugin Output

192.168.50.101 (tcp/80/www)

## 11936 (1) - OS Identification

### Synopsis

It is possible to guess the remote operating system.

### Description

Using a combination of remote probes (e.g., TCP/IP, SMB, HTTP, NTP, SNMP, etc.), it is possible to guess the name of the remote operating system in use. It is also possible sometimes to guess the version of the operating system.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2003/12/09, Modified: 2023/11/08

### Plugin Output

192.168.50.101 (tcp/0)

```
Remote operating system : Linux Kernel 2.6 on Ubuntu 8.04 (gutsy)
Confidence level : 95
Method : HTTP
```

Not all fingerprints could give a match. If you think some or all of the following could be used to identify the host's operating system, please email them to [os-signatures@nessus.org](mailto:os-signatures@nessus.org). Be sure to include a brief description of the host itself, such as the actual operating system or product / model names.

```
SSH:SSH-2.0-OpenSSH_4.7p1 Debian-8ubuntu1
```

```
SinFP:
```

```
P1:B10113:F0x12:W5840:00204ffff:M1460:
```

```
P2:B10113:F0x12:W5792:00204ffff0402080affffff4445414401030306:M1460:
```

```
P3:B00000:F0x00:W0:00:M0
```

```
P4:190704_7_p=2121
```

```
SMTP:!:220 metasploitable.localdomain ESMTP Postfix (Ubuntu)
```

```
SSLcert:!:i/CN:ubuntu804-base.localdomaini/O:OCOSAI/OU:Office for Complication of Otherwise Simple
Affairss/CN:ubuntu804-base.localdomains/O:OCOSAs/OU:Office for Complication of Otherwise Simple
Affairs
```

```
ed093088706603bfd5dc237399b498da2d4d31c6
```

```
i/CN:ubuntu804-base.localdomaini/O:OCOSAI/OU:Office for Complication of Otherwise Simple Affairss/
CN:ubuntu804-base.localdomains/O:OCOSAs/OU:Office for Complication of Otherwise Simple Affairs
```

```
ed093088706603bfd5dc237399b498da2d4d31c6
```

The remote host is running Linux Kernel 2.6 on Ubuntu 8.04 (gutsy)

## 17975 (1) - Service Detection (GET request)

### Synopsis

The remote service could be identified.

### Description

It was possible to identify the remote service by its banner or by looking at the error message it sends when it receives an HTTP request.

### Solution

n/a

### Risk Factor

None

### References

XREF IAVT:0001-T-0935

### Plugin Information

Published: 2005/04/06, Modified: 2021/10/27

### Plugin Output

192.168.50.101 (tcp/6667/irc)

```
An IRC daemon is listening on this port.
```

## 18261 (1) - Apache Banner Linux Distribution Disclosure

### Synopsis

The name of the Linux distribution running on the remote host was found in the banner of the web server.

### Description

Nessus was able to extract the banner of the Apache web server and determine which Linux distribution the remote host is running.

### Solution

If you do not wish to display this information, edit 'httpd.conf' and set the directive 'ServerTokens Prod' and restart Apache.

### Risk Factor

None

### Plugin Information

Published: 2005/05/15, Modified: 2022/03/21

### Plugin Output

192.168.50.101 (tcp/0)

```
The Linux distribution detected was :  
- Ubuntu 8.04 (gutsy)
```

## 19288 (1) - VNC Server Security Type Detection

### Synopsis

A VNC server is running on the remote host.

### Description

This script checks the remote VNC server protocol version and the available 'security types'.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2005/07/22, Modified: 2021/07/13

### Plugin Output

192.168.50.101 (tcp/5900/vnc)

```
\n\nThe remote VNC server chose security type #2 (VNC authentication)
```

## 19506 (1) - Nessus Scan Information

### Synopsis

This plugin displays information about the Nessus scan.

### Description

This plugin displays, for each tested host, information about the scan itself :

- The version of the plugin set.
- The type of scanner (Nessus or Nessus Home).
- The version of the Nessus Engine.
- The port scanner(s) used.
- The port range scanned.
- The ping round trip time
- Whether credentialed or third-party patch management checks are possible.
- Whether the display of superseded patches is enabled
- The date of the scan.
- The duration of the scan.
- The number of hosts scanned in parallel.
- The number of checks done in parallel.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2005/08/26, Modified: 2023/07/31

### Plugin Output

192.168.50.101 (tcp/0)

Information about this scan :

```
Nessus version : 10.6.4
Nessus build : 20005
Plugin feed version : 202401231521
Scanner edition used : Nessus Home
Scanner OS : LINUX
Scanner distribution : ubuntu1404-x86-64
Scan type : Normal
```

```
Scan name : Scan2ElectricBoogaloo
Scan policy used : Basic Network Scan
Scanner IP : 192.168.50.100
Port scanner(s) : nessus_syn_scanner
Port range : default
Ping RTT : 171.228 ms
Thorough tests : no
Experimental tests : no
Plugin debugging enabled : no
Paranoia level : 1
Report verbosity : 1
Safe checks : yes
Optimize the test : yes
Credentialed checks : no
Patch management checks : None
Display superseded patches : yes (supersedence plugin launched)
CGI scanning : disabled
Web application tests : disabled
Max hosts : 30
Max checks : 4
Recv timeout : 5
Backports : Detected
Allow post-scan editing : Yes
Nessus Plugin Signature Checking : Enabled
Audit File Signature Checking : Disabled
Scan Start Date : 2024/1/28 18:06 EST
Scan duration : 1402 sec
Scan for malware : no
```





|\_ |

Warning: Never expose this VM to an untrusted network!

Contact: msfdev[at]metasploit.com

Login with msfadmin/msfadmin to get started

```
</pre>
<ul>
<li><a href="/twiki/">TWiki</a></li>
<li><a href="/phpMyAdmin/">phpMyAdmin</a></li>
<li><a href="/mutillidae/">Mutillidae</a></li>
<li><a href="/dvwa/">DVWA</a></li>
<li><a href="/dav/">WebDAV</a></li>
</ul>
</body>
</html>
```

## 25220 (1) - TCP/IP Timestamps Supported

### Synopsis

The remote service implements TCP timestamps.

### Description

The remote host implements TCP timestamps, as defined by RFC1323. A side effect of this feature is that the uptime of the remote host can sometimes be computed.

### See Also

<http://www.ietf.org/rfc/rfc1323.txt>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2007/05/16, Modified: 2023/10/17

### Plugin Output

192.168.50.101 (tcp/0)

## 25240 (1) - Samba Server Detection

### Synopsis

An SMB server is running on the remote host.

### Description

The remote host is running Samba, a CIFS/SMB server for Linux and Unix.

### See Also

<https://www.samba.org/>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2007/05/16, Modified: 2022/10/12

### Plugin Output

192.168.50.101 (tcp/445/cifs)

## 26024 (1) - PostgreSQL Server Detection

### Synopsis

A database service is listening on the remote host.

### Description

The remote service is a PostgreSQL database server, or a derivative such as EnterpriseDB.

### See Also

<https://www.postgresql.org/>

### Solution

Limit incoming traffic to this port if desired.

### Risk Factor

None

### Plugin Information

Published: 2007/09/14, Modified: 2023/05/24

### Plugin Output

192.168.50.101 (tcp/5432/postgresql)

## 35371 (1) - DNS Server hostname.bind Map Hostname Disclosure

### Synopsis

The DNS server discloses the remote host name.

### Description

It is possible to learn the remote host name by querying the remote DNS server for 'hostname.bind' in the CHAOS domain.

### Solution

It may be possible to disable this feature. Consult the vendor's documentation for more information.

### Risk Factor

None

### Plugin Information

Published: 2009/01/15, Modified: 2011/09/14

### Plugin Output

192.168.50.101 (udp/53/dns)

```
The remote host name is :  
metasploitable
```

## 35716 (1) - Ethernet Card Manufacturer Detection

### Synopsis

The manufacturer can be identified from the Ethernet OUI.

### Description

Each ethernet MAC address starts with a 24-bit Organizationally Unique Identifier (OUI). These OUIs are registered by IEEE.

### See Also

<https://standards.ieee.org/faqs/regauth.html>

<http://www.nessus.org/u?794673b4>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2009/02/19, Modified: 2020/05/13

### Plugin Output

192.168.50.101 (tcp/0)

The following card manufacturers were identified :

08:00:27:FF:E3:CB : PCS Systemtechnik GmbH

## 39520 (1) - Backported Security Patch Detection (SSH)

### Synopsis

Security patches are backported.

### Description

Security patches may have been 'backported' to the remote SSH server without changing its version number.

Banner-based checks have been disabled to avoid false positives.

Note that this test is informational only and does not denote any security problem.

### See Also

[https://access.redhat.com/security/updates/backporting/?sc\\_cid=3093](https://access.redhat.com/security/updates/backporting/?sc_cid=3093)

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2009/06/25, Modified: 2015/07/07

### Plugin Output

192.168.50.101 (tcp/22/ssh)

Give Nessus credentials to perform local checks.



## 39521 (1) - Backported Security Patch Detection (WWW)

### Synopsis

Security patches are backported.

### Description

Security patches may have been 'backported' to the remote HTTP server without changing its version number.

Banner-based checks have been disabled to avoid false positives.

Note that this test is informational only and does not denote any security problem.

### See Also

[https://access.redhat.com/security/updates/backporting/?sc\\_cid=3093](https://access.redhat.com/security/updates/backporting/?sc_cid=3093)

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2009/06/25, Modified: 2015/07/07

### Plugin Output

192.168.50.101 (tcp/80/www)

Give Nessus credentials to perform local checks.

## 42088 (1) - SMTP Service STARTTLS Command Support

### Synopsis

The remote mail service supports encrypting traffic.

### Description

The remote SMTP service supports the use of the 'STARTTLS' command to switch from a cleartext to an encrypted communications channel.

### See Also

<https://en.wikipedia.org/wiki/STARTTLS>

<https://tools.ietf.org/html/rfc2487>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2009/10/09, Modified: 2019/03/20

### Plugin Output

192.168.50.101 (tcp/25/smtp)

```
Here is the SMTP service's SSL certificate that Nessus was able to
collect after sending a 'STARTTLS' command :
```

```
----- snip -----
```

```
Subject Name:
```

```
Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain
```

```
Issuer Name:
```

```
Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
```

```
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain

Serial Number: 00 FA F9 3A 4C 7F B6 B9 CC

Version: 1

Signature Algorithm: SHA-1 With RSA Encryption

Not Valid Before: Mar 17 14:07:45 2010 GMT
Not Valid After: Apr 16 14:07:45 2010 GMT

Public Key Info:

Algorithm: RSA Encryption
Key Length: 1024 bits
Public Key: 00 D6 B4 13 36 33 9A 95 71 7B 1B DE 7C 83 75 DA 71 B1 3C A9
             7F FE AD 64 1B 77 E9 4F AE BE CA D4 F8 CB EF AE BB 43 79 24
             73 FF 3C E5 9E 3B 6D FC C8 B1 AC FA 4C 4D 5E 9B 4C 99 54 0B
             D7 A8 4A 50 BA A9 DE 1D 1F F4 E4 6B 02 A3 F4 6B 45 CD 4C AF
             8D 89 62 33 8F 65 BB 36 61 9F C4 2C 73 C1 4E 2E A0 A8 14 4E
             98 70 46 61 BB D1 B9 31 DF 8C 99 EE 75 6B 79 3C 40 A0 AE 97
             00 90 9D DC 99 0D 33 A4 B5
Exponent: 01 00 01

Signature Length: 128 bytes / 1024 bits
Signature: 00 92 A4 B4 B8 14 55 63 25 51 4A 0B C3 2A 22 CF 3A F8 17 6A
           0C CF 66 AA A7 65 2F 48 6D CD E3 3E 5C 9F 77 6C D4 44 54 1F
           1E 84 4F 8E D4 8D DD AC 2D 88 09 21 A8 DA 56 2C A9 05 3C 49
           68 35 19 75 0C DA 53 23 88 88 19 2D 74 26 C1 22 65 EE 11 68
           83 6A 53 4A 9C 27 CB A0 B4 E9 8D 29 0C B2 3C 18 5C 67 CC 53
           A6 1E 30 D0 AA 26 7B 1E AE 40 B9 29 01 6C 2E BC A2 19 94 7C
           15 6E 8D 30 38 F6 CA 2E 75

----- snip ----- [...]
```

## 45590 (1) - Common Platform Enumeration (CPE)

### Synopsis

It was possible to enumerate CPE names that matched on the remote system.

### Description

By using information obtained from a Nessus scan, this plugin reports CPE (Common Platform Enumeration) matches for various hardware and software products found on a host.

Note that if an official CPE is not available for the product, this plugin computes the best possible CPE based on the information available from the scan.

### See Also

<http://cpe.mitre.org/>

<https://nvd.nist.gov/products/cpe>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2010/04/21, Modified: 2023/12/27

### Plugin Output

192.168.50.101 (tcp/0)

The remote operating system matched the following CPE :

cpe:/o:canonical:ubuntu\_linux:8.04 -> Canonical Ubuntu Linux

Following application CPE's matched on the remote system :

cpe:/a:apache:http\_server:2.2.8 -> Apache Software Foundation Apache HTTP Server  
cpe:/a:apache:http\_server:2.2.99 -> Apache Software Foundation Apache HTTP Server  
cpe:/a:isc:bind:9.4. -> ISC BIND  
cpe:/a:isc:bind:9.4.2 -> ISC BIND  
cpe:/a:openbsd:openssh:4.7 -> OpenBSD OpenSSH  
cpe:/a:openbsd:openssh:4.7p1 -> OpenBSD OpenSSH  
cpe:/a:php:php:5.2.4 -> PHP PHP  
cpe:/a:php:php:5.2.4-2ubuntu5.10 -> PHP PHP  
cpe:/a:postgresql:postgresql -> PostgreSQL  
cpe:/a:samba:samba:3.0.20 -> Samba Samba

## 48204 (1) - Apache HTTP Server Version

### Synopsis

It is possible to obtain the version number of the remote Apache HTTP server.

### Description

The remote host is running the Apache HTTP Server, an open source web server. It was possible to read the version number from the banner.

### See Also

<https://httpd.apache.org/>

### Solution

n/a

### Risk Factor

None

### References

XREF IAVT:0001-T-0030

XREF IAVT:0001-T-0530

### Plugin Information

Published: 2010/07/30, Modified: 2023/08/17

### Plugin Output

192.168.50.101 (tcp/80/www)

```
URL      : http://192.168.50.101/
Version  : 2.2.99
Source   : Server: Apache/2.2.8 (Ubuntu) DAV/2
backported : 1
modules  : DAV/2
os       : ConvertedUbuntu
```

## 48243 (1) - PHP Version Detection

### Synopsis

It was possible to obtain the version number of the remote PHP installation.

### Description

Nessus was able to determine the version of PHP available on the remote web server.

### Solution

n/a

### Risk Factor

None

### References

XREF IAVT:0001-T-0936

### Plugin Information

Published: 2010/08/04, Modified: 2022/10/12

### Plugin Output

192.168.50.101 (tcp/80/www)

Nessus was able to identify the following PHP version information :

Version : 5.2.4-2ubuntu5.10  
Source : X-Powered-By: PHP/5.2.4-2ubuntu5.10

## 51891 (1) - SSL Session Resume Supported

### Synopsis

The remote host allows resuming SSL sessions.

### Description

This script detects whether a host allows resuming SSL sessions by performing a full SSL handshake to receive a session ID, and then reconnecting with the previously used session ID. If the server accepts the session ID in the second connection, the server maintains a cache of sessions that can be resumed.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2011/02/07, Modified: 2021/09/13

### Plugin Output

192.168.50.101 (tcp/25/smtp)

```
This port supports resuming SSLv3 sessions.
```

## 53335 (1) - RPC portmapper (TCP)

### Synopsis

An ONC RPC portmapper is running on the remote host.

### Description

The RPC portmapper is running on this port.

The portmapper allows someone to get the port number of each RPC service running on the remote host by sending either multiple lookup requests or a DUMP request.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2011/04/08, Modified: 2011/08/29

### Plugin Output

192.168.50.101 (tcp/111/rpc-portmapper)



## 54615 (1) - Device Type

### Synopsis

It is possible to guess the remote device type.

### Description

Based on the remote operating system, it is possible to determine what the remote system type is (eg: a printer, router, general-purpose computer, etc).

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2011/05/23, Modified: 2022/09/09

### Plugin Output

192.168.50.101 (tcp/0)

```
Remote device type : general-purpose  
Confidence level : 95
```

## 65792 (1) - VNC Server Unencrypted Communication Detection

### Synopsis

A VNC server with one or more unencrypted 'security-types' is running on the remote host.

### Description

This script checks the remote VNC server protocol version and the available 'security types' to determine if any unencrypted 'security-types' are in use or available.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2013/04/03, Modified: 2014/03/12

### Plugin Output

192.168.50.101 (tcp/5900/vnc)

The remote VNC server supports the following security type  
which does not perform full data communication encryption :

2 (VNC authentication)

## 66334 (1) - Patch Report

### Synopsis

The remote host is missing several patches.

### Description

The remote host is missing one or more security patches. This plugin lists the newest version of each patch to install to make sure the remote host is up-to-date.

Note: Because the 'Show missing patches that have been superseded' setting in your scan policy depends on this plugin, it will always run and cannot be disabled.

### Solution

Install the patches listed below.

### Risk Factor

None

### Plugin Information

Published: 2013/07/08, Modified: 2024/01/16

### Plugin Output

192.168.50.101 (tcp/0)

. You need to take the following 2 actions :

[ ISC BIND 9.x < 9.11.22, 9.12.x < 9.16.6, 9.17.x < 9.17.4 DoS (139915) ]

+ Action to take : Upgrade to BIND 9.11.22, 9.16.6, 9.17.4 or later.

+Impact : Taking this action will resolve 3 different vulnerabilities (CVEs).

[ Samba Badlock Vulnerability (90509) ]

+ Action to take : Upgrade to Samba version 4.2.11 / 4.3.8 / 4.4.2 or later.

## 70657 (1) - SSH Algorithms and Languages Supported

### Synopsis

An SSH server is listening on this port.

### Description

This script detects which algorithms and languages are supported by the remote service for encrypting communications.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2013/10/28, Modified: 2017/08/28

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
Nessus negotiated the following encryption algorithm with the server :
```

```
The server supports the following options for kex_algorithms :
```

```
diffie-hellman-group-exchange-sha1
diffie-hellman-group-exchange-sha256
diffie-hellman-group1-sha1
diffie-hellman-group14-sha1
```

```
The server supports the following options for server_host_key_algorithms :
```

```
ssh-dss
ssh-rsa
```

```
The server supports the following options for encryption_algorithms_client_to_server :
```

```
3des-cbc
aes128-cbc
aes128-ctr
aes192-cbc
aes192-ctr
aes256-cbc
aes256-ctr
arcfour
arcfour128
arcfour256
blowfish-cbc
cast128-cbc
```

```
rijndael-cbc@lysator.liu.se
```

The server supports the following options for encryption\_algorithms\_server\_to\_client :

```
3des-cbc
aes128-cbc
aes128-ctr
aes192-cbc
aes192-ctr
aes256-cbc
aes256-ctr
arcfour
arcfour128
arcfour256
blowfish-cbc
cast128-cbc
rijndael-cbc@lysator.liu.se
```

The server supports the following options for mac\_algorithms\_client\_to\_server :

```
hmac-md5
hmac-md5-96
hmac-ripemd160
hmac-ripemd160@openssh.com
hmac-sha1
hmac-sha1-96
umac-64@openssh.com
```

The server supports the following options for mac\_algorithms\_server\_to\_client :

```
hmac-md5
hmac-md5-96
hmac-ripemd160
hmac-ripemd160@openssh.com
hmac-sha1
hmac-sha1-96
umac-64@openssh.com
```

The server supports the following options for compression\_algorithms\_client\_to\_server :

```
none
zlib@openssh.com
```

The server supports the following options for compression\_algorithms\_server\_to\_client :

```
none
zlib@openssh.com
```

## 84574 (1) - Backported Security Patch Detection (PHP)

### Synopsis

Security patches have been backported.

### Description

Security patches may have been 'backported' to the remote PHP install without changing its version number.

Banner-based checks have been disabled to avoid false positives.

Note that this test is informational only and does not denote any security problem.

### See Also

[https://access.redhat.com/security/updates/backporting/?sc\\_cid=3093](https://access.redhat.com/security/updates/backporting/?sc_cid=3093)

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2015/07/07, Modified: 2022/04/11

### Plugin Output

192.168.50.101 (tcp/80/www)

Give Nessus credentials to perform local checks.

## 86420 (1) - Ethernet MAC Addresses

### Synopsis

This plugin gathers MAC addresses from various sources and consolidates them into a list.

### Description

This plugin gathers MAC addresses discovered from both remote probing of the host (e.g. SNMP and Netbios) and from running local checks (e.g. ifconfig). It then consolidates the MAC addresses into a single, unique, and uniform list.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2015/10/16, Modified: 2020/05/13

### Plugin Output

192.168.50.101 (tcp/0)

```
The following is a consolidated list of detected MAC addresses:  
- 08:00:27:FF:E3:CB
```

## 96982 (1) - Server Message Block (SMB) Protocol Version 1 Enabled (uncredentialed check)

### Synopsis

The remote Windows host supports the SMBv1 protocol.

### Description

The remote Windows host supports Server Message Block Protocol version 1 (SMBv1). Microsoft recommends that users discontinue the use of SMBv1 due to the lack of security features that were included in later SMB versions. Additionally, the Shadow Brokers group reportedly has an exploit that affects SMB; however, it is unknown if the exploit affects SMBv1 or another version. In response to this, US-CERT recommends that users disable SMBv1 per SMB best practices to mitigate these potential issues.

### See Also

<https://blogs.technet.microsoft.com/filecab/2016/09/16/stop-using-smb1/>

<https://support.microsoft.com/en-us/help/2696547/how-to-detect-enable-and-disable-smbv1-smbv2-and-smbv3-in-windows-and>

<http://www.nessus.org/u?8dcab5e4>

<http://www.nessus.org/u?234f8ef8>

<http://www.nessus.org/u?4c7e0cf3>

### Solution

Disable SMBv1 according to the vendor instructions in Microsoft KB2696547. Additionally, block SMB directly by blocking TCP port 445 on all network boundary devices. For SMB over the NetBIOS API, block TCP ports 137 / 139 and UDP ports 137 / 138 on all network boundary devices.

### Risk Factor

None

### References

XREF IAVT:0001-T-0710

### Plugin Information

Published: 2017/02/03, Modified: 2020/09/22

### Plugin Output

192.168.50.101 (tcp/445/cifs)



The remote host supports SMBv1.

## 100871 (1) - Microsoft Windows SMB Versions Supported (remote check)

### Synopsis

It was possible to obtain information about the version of SMB running on the remote host.

### Description

Nessus was able to obtain the version of SMB running on the remote host by sending an authentication request to port 139 or 445.

Note that this plugin is a remote check and does not work on agents.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2017/06/19, Modified: 2019/11/22

### Plugin Output

192.168.50.101 (tcp/445/cifs)

```
The remote host supports the following versions of SMB :  
SMBv1
```

## 104887 (1) - Samba Version

### Synopsis

It was possible to obtain the samba version from the remote operating system.

### Description

Nessus was able to obtain the samba version from the remote operating by sending an authentication request to port 139 or 445. Note that this plugin requires SMB1 to be enabled on the host.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2017/11/30, Modified: 2019/11/22

### Plugin Output

192.168.50.101 (tcp/445/cifs)

```
The remote Samba Version is : Samba 3.0.20-Debian
```

## 106716 (1) - Microsoft Windows SMB2 and SMB3 Dialects Supported (remote check)

### Synopsis

It was possible to obtain information about the dialects of SMB2 and SMB3 available on the remote host.

### Description

Nessus was able to obtain the set of SMB2 and SMB3 dialects running on the remote host by sending an authentication request to port 139 or 445.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2018/02/09, Modified: 2020/03/11

### Plugin Output

192.168.50.101 (tcp/445/cifs)

```
The remote host does NOT support the following SMB dialects :
_version_  _introduced in windows version_
2.0.2      Windows 2008
2.1        Windows 7
2.2.2      Windows 8 Beta
2.2.4      Windows 8 Beta
3.0        Windows 8
3.0.2      Windows 8.1
3.1        Windows 10
3.1.1      Windows 10
```

## 110723 (1) - Target Credential Status by Authentication Protocol - No Credentials Provided

### Synopsis

Nessus was able to find common ports used for local checks, however, no credentials were provided in the scan policy.

### Description

Nessus was not able to successfully authenticate directly to the remote target on an available authentication protocol. Nessus was able to connect to the remote port and identify that the service running on the port supports an authentication protocol, but Nessus failed to authenticate to the remote service using the provided credentials. There may have been a protocol failure that prevented authentication from being attempted or all of the provided credentials for the authentication protocol may be invalid. See plugin output for error details.

Please note the following :

- This plugin reports per protocol, so it is possible for valid credentials to be provided for one protocol and not another. For example, authentication may succeed via SSH but fail via SMB, while no credentials were provided for an available SNMP service.
- Providing valid credentials for all available authentication protocols may improve scan coverage, but the value of successful authentication for a given protocol may vary from target to target depending upon what data (if any) is gathered from the target via that protocol. For example, successful authentication via SSH is more valuable for Linux targets than for Windows targets, and likewise successful authentication via SMB is more valuable for Windows targets than for Linux targets.

### Solution

n/a

### Risk Factor

None

### References

XREF IAVB:0001-B-0504

### Plugin Information

Published: 2018/06/27, Modified: 2023/02/13

### Plugin Output

192.168.50.101 (tcp/0)

SSH was detected on port 22 but no credentials were provided.

SSH local checks were not enabled.

## 117886 (1) - OS Security Patch Assessment Not Available

### Synopsis

OS Security Patch Assessment is not available.

### Description

OS Security Patch Assessment is not available on the remote host.

This does not necessarily indicate a problem with the scan.

Credentials may not have been provided, OS security patch assessment may not be supported for the target, the target may not have been identified, or another issue may have occurred that prevented OS security patch assessment from being available. See plugin output for details.

This plugin reports non-failure information impacting the availability of OS Security Patch Assessment. Failure information is reported by plugin 21745 : 'OS Security Patch Assessment failed'. If a target host is not supported for OS Security Patch Assessment, plugin 110695 : 'OS Security Patch Assessment Checks Not Supported' will report concurrently with this plugin.

### Solution

n/a

### Risk Factor

None

### References

XREF IAVB:0001-B-0515

### Plugin Information

Published: 2018/10/02, Modified: 2021/07/12

### Plugin Output

192.168.50.101 (tcp/0)

The following issues were reported :

```
- Plugin      : no_local_checks_credentials.nasl
  Plugin ID   : 110723
  Plugin Name : Target Credential Status by Authentication Protocol - No Credentials Provided
  Message    :
  Credentials were not provided for detected SSH service.
```

## 118224 (1) - PostgreSQL STARTTLS Support

### Synopsis

The remote service supports encrypting traffic.

### Description

The remote PostgreSQL server supports the use of encryption initiated during pre-login to switch from a cleartext to an encrypted communications channel.

### See Also

<https://www.postgresql.org/docs/9.2/protocol-flow.html#AEN96066>

<https://www.postgresql.org/docs/9.2/protocol-message-formats.html>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2018/10/19, Modified: 2022/04/11

### Plugin Output

192.168.50.101 (tcp/5432/postgresql)

```
Here is the PostgreSQL's SSL certificate that Nessus
was able to collect after sending a pre-login packet :
```

```
----- snip -----
```

```
Subject Name:
```

```
Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
Organization Unit: Office for Complication of Otherwise Simple Affairs
Common Name: ubuntu804-base.localdomain
Email Address: root@ubuntu804-base.localdomain
```

```
Issuer Name:
```

```
Country: XX
State/Province: There is no such thing outside US
Locality: Everywhere
Organization: OCOSA
```



Organization Unit: Office for Complication of Otherwise Simple Affairs  
Common Name: ubuntu804-base.localdomain  
Email Address: root@ubuntu804-base.localdomain

Serial Number: 00 FA F9 3A 4C 7F B6 B9 CC

Version: 1

Signature Algorithm: SHA-1 With RSA Encryption

Not Valid Before: Mar 17 14:07:45 2010 GMT

Not Valid After: Apr 16 14:07:45 2010 GMT

Public Key Info:

Algorithm: RSA Encryption

Key Length: 1024 bits

Public Key: 00 D6 B4 13 36 33 9A 95 71 7B 1B DE 7C 83 75 DA 71 B1 3C A9  
7F FE AD 64 1B 77 E9 4F AE BE CA D4 F8 CB EF AE BB 43 79 24  
73 FF 3C E5 9E 3B 6D FC C8 B1 AC FA 4C 4D 5E 9B 4C 99 54 0B  
D7 A8 4A 50 BA A9 DE 1D 1F F4 E4 6B 02 A3 F4 6B 45 CD 4C AF  
8D 89 62 33 8F 65 BB 36 61 9F C4 2C 73 C1 4E 2E A0 A8 14 4E  
98 70 46 61 BB D1 B9 31 DF 8C 99 EE 75 6B 79 3C 40 A0 AE 97  
00 90 9D DC 99 0D 33 A4 B5

Exponent: 01 00 01

Signature Length: 128 bytes / 1024 bits

Signature: 00 92 A4 B4 B8 14 55 63 25 51 4A 0B C3 2A 22 CF 3A F8 17 6A  
0C CF 66 AA A7 65 2F 48 6D CD E3 3E 5C 9F 77 6C D4 44 54 1F  
1E 84 4F 8E D4 8D DD AC 2D 88 09 21 A8 DA 56 2C A9 05 3C 49  
68 35 19 75 0C DA 53 23 88 88 19 2D 74 26 C1 22 65 EE 11 68  
83 6A 53 4A 9C 27 CB A0 B4 E9 8D 29 0C B2 3C 18 5C 67 CC 53  
A6 1E 30 D0 AA 26 7B 1E AE 40 B9 29 01 6C 2E BC A2 19 94 7C  
15 6E 8D 30 38 F6 CA 2E 75

----- snip ----- [...]

## 135860 (1) - WMI Not Available

### Synopsis

WMI queries could not be made against the remote host.

### Description

WMI (Windows Management Instrumentation) is not available on the remote host over DCOM. WMI queries are used to gather information about the remote host, such as its current state, network interface configuration, etc.

Without this information Nessus may not be able to identify installed software or security vulnerabilities that exist on the remote host.

### See Also

<https://docs.microsoft.com/en-us/windows/win32/wmisdk/wmi-start-page>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2020/04/21, Modified: 2024/01/16

### Plugin Output

192.168.50.101 (tcp/445/cifs)

```
Can't connect to the 'root\CIMV2' WMI namespace.
```

## 149334 (1) - SSH Password Authentication Accepted

### Synopsis

The SSH server on the remote host accepts password authentication.

### Description

The SSH server on the remote host accepts password authentication.

### See Also

<https://tools.ietf.org/html/rfc4252#section-8>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2021/05/07, Modified: 2021/05/07

### Plugin Output

192.168.50.101 (tcp/22/ssh)

## 153588 (1) - SSH SHA-1 HMAC Algorithms Enabled

### Synopsis

The remote SSH server is configured to enable SHA-1 HMAC algorithms.

### Description

The remote SSH server is configured to enable SHA-1 HMAC algorithms.

Although NIST has formally deprecated use of SHA-1 for digital signatures, SHA-1 is still considered secure for HMAC as the security of HMAC does not rely on the underlying hash function being resistant to collisions.

Note that this plugin only checks for the options of the remote SSH server.

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2021/09/23, Modified: 2022/04/05

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
The following client-to-server SHA-1 Hash-based Message Authentication Code (HMAC) algorithms are supported :
```

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

```
The following server-to-client SHA-1 Hash-based Message Authentication Code (HMAC) algorithms are supported :
```

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

## 181418 (1) - OpenSSH Detection

### Synopsis

An OpenSSH-based SSH server was detected on the remote host.

### Description

An OpenSSH-based SSH server was detected on the remote host.

### See Also

<https://www.openssh.com/>

### Solution

n/a

### Risk Factor

None

### Plugin Information

Published: 2023/09/14, Modified: 2024/01/16

### Plugin Output

192.168.50.101 (tcp/22/ssh)

```
Path      : /  
Version   : 4.7p1  
Distribution : debian-8ubuntu1
```