



Gruyere

Report generated by Nessus™

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Nessus Essentials

Vulnerabilities by Host

142.250.97.153



Host Information

DNS Name: ui-in-f153.1e100.net
IP: 142.250.97.153
OS: Microsoft Windows Server 2012 R2

Vulnerabilities

35450 - DNS Server Spoofed Request Amplification DDoS

Synopsis

The remote DNS server could be used in a distributed denial of service attack.

Description

The remote DNS server answers to any request. It is possible to query the name servers (NS) of the root zone ('.') and get an answer that is bigger than the original request. By spoofing the source IP address, a remote attacker can leverage this 'amplification' to launch a denial of service attack against a third-party host using the remote DNS server.

See Also

<https://isc.sans.edu/diary/DNS+queries+for+/5713>

Solution

Restrict access to your DNS server from public network or reconfigure it to reject such queries.

Risk Factor

Medium

CVSS v3.0 Base Score

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

VPR Score

3.6

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)

References

CVE CVE-2006-0987

Plugin Information

Published: 2009/01/22, Modified: 2020/08/21

Plugin Output

udp/53/dns

```
The DNS query was 17 bytes long, the answer is 508 bytes long.
```

42873 - SSL Medium Strength Cipher Suites Supported (SWEET32)

Synopsis

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

Description

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

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

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

tcp/443/www

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

Name	Code	KEX	Auth	Encryption	MAC
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}

12217 - DNS Server Cache Snooping Remote Information Disclosure

Synopsis

The remote DNS server is vulnerable to cache snooping attacks.

Description

The remote DNS server responds to queries for third-party domains that do not have the recursion bit set.

This may allow a remote attacker to determine which domains have recently been resolved via this name server, and therefore which hosts have been recently visited.

For instance, if an attacker was interested in whether your company utilizes the online services of a particular financial institution, they would be able to use this attack to build a statistical model regarding company usage of that financial institution. Of course, the attack can also be used to find B2B partners, web-surfing patterns, external mail servers, and more.

Note: If this is an internal DNS server not accessible to outside networks, attacks would be limited to the internal network. This may include employees, consultants and potentially users on a guest network or WiFi connection if supported.

See Also

http://cs.unc.edu/~fabian/course_papers/cache_snooping.pdf

Solution

Contact the vendor of the DNS software for a fix.

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

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

Plugin Information

Published: 2004/04/27, Modified: 2020/04/07

Plugin Output

udp/53/dns

Nessus sent a non-recursive query for example.edu
and received 1 answer :

93.184.216.34

10539 - DNS Server Recursive Query Cache Poisoning Weakness

Synopsis

The remote name server allows recursive queries to be performed by the host running nssusd.

Description

It is possible to query the remote name server for third-party names.

If this is your internal nameserver, then the attack vector may be limited to employees or guest access if allowed.

If you are probing a remote nameserver, then it allows anyone to use it to resolve third party names (such as www.nessus.org).

This allows attackers to perform cache poisoning attacks against this nameserver.

If the host allows these recursive queries via UDP, then the host can be used to 'bounce' Denial of Service attacks against another network or system.

See Also

<http://www.nessus.org/u?c4dcf24a>

Solution

Restrict recursive queries to the hosts that should use this nameserver (such as those of the LAN connected to it).

If you are using bind 8, you can do this by using the instruction 'allow-recursion' in the 'options' section of your named.conf.

If you are using bind 9, you can define a grouping of internal addresses using the 'acl' command.

Then, within the options block, you can explicitly state:

```
'allow-recursion { hosts_defined_in_acl }'
```

If you are using another name server, consult its documentation.

Risk Factor

Medium

VPR Score

4.2

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)

References

BID	136
BID	678
CVE	CVE-1999-0024
XREF	CERT-CC:CA-1997-22

Plugin Information

Published: 2000/10/27, Modified: 2018/06/27

Plugin Output

udp/53/dns

104743 - TLS Version 1.0 Protocol Detection

Synopsis

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

Description

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

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

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

See Also

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

Solution

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

Risk Factor

Medium

CVSS v3.0 Base Score

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

CVSS v2.0 Base Score

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

References

XREF CWE:327

Plugin Information

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

Plugin Output

tcp/443/www

TLsv1 is enabled and the server supports at least one cipher.

157288 - TLS Version 1.1 Protocol Deprecated

Synopsis

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

Description

The remote service accepts connections encrypted using TLS 1.1. TLS 1.1 lacks support for current and recommended cipher suites. Ciphers that support encryption before MAC computation, and authenticated encryption modes such as GCM cannot be used with TLS 1.1

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

See Also

<https://datatracker.ietf.org/doc/html/rfc8996>

<http://www.nessus.org/u?c8ae820d>

Solution

Enable support for TLS 1.2 and/or 1.3, and disable support for TLS 1.1.

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: 2022/04/04, Modified: 2023/04/19

Plugin Output

tcp/443/www

TLSv1.1 is enabled and the server supports at least one cipher.

45590 - 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: 2023/10/16

Plugin Output

tcp/0

```
The remote operating system matched the following CPE :
```

```
cpe:/o:microsoft:windows_server_2012:r2 -> Microsoft Windows Server 2012
```


11002 - 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

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

tcp/53/dns

11002 - 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

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

udp/53/dns

54615 - 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

tcp/0

```
Remote device type : unknown  
Confidence level : 56
```

84502 - HSTS Missing From HTTPS Server

Synopsis

The remote web server is not enforcing HSTS.

Description

The remote HTTPS server is not enforcing HTTP Strict Transport Security (HSTS). HSTS is an optional response header that can be configured on the server to instruct the browser to only communicate via HTTPS. The lack of HSTS allows downgrade attacks, SSL-stripping man-in-the-middle attacks, and weakens cookie-hijacking protections.

See Also

<https://tools.ietf.org/html/rfc6797>

Solution

Configure the remote web server to use HSTS.

Risk Factor

None

Plugin Information

Published: 2015/07/02, Modified: 2021/05/19

Plugin Output

tcp/443/www

```
The remote HTTPS server does not send the HTTP
"Strict-Transport-Security" header.
```

12053 - Host Fully Qualified Domain Name (FQDN) Resolution

Synopsis

It was possible to resolve the name of the remote host.

Description

Nessus was able to resolve the fully qualified domain name (FQDN) of the remote host.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2004/02/11, Modified: 2017/04/14

Plugin Output

tcp/0

```
142.250.97.153 resolves as ui-in-f153.1e100.net.
```

24260 - HyperText Transfer Protocol (HTTP) Information

Synopsis

Some information about the remote HTTP configuration can be extracted.

Description

This test gives some information about the remote HTTP protocol - the version used, whether HTTP Keep-Alive and HTTP pipelining are enabled, etc...

This test is informational only and does not denote any security problem.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/01/30, Modified: 2019/11/22

Plugin Output

tcp/80/www

```
Response Code : HTTP/1.1 404 Not Found

Protocol version : HTTP/1.1
SSL : no
Keep-Alive : no
Options allowed : (Not implemented)
Headers :

    Content-Type: text/html; charset=UTF-8
    Referrer-Policy: no-referrer
    Content-Length: 1561
    Date: Tue, 17 Oct 2023 11:21:20 GMT
    Connection: close

Response Body :
```

24260 - HyperText Transfer Protocol (HTTP) Information

Synopsis

Some information about the remote HTTP configuration can be extracted.

Description

This test gives some information about the remote HTTP protocol - the version used, whether HTTP Keep-Alive and HTTP pipelining are enabled, etc...

This test is informational only and does not denote any security problem.

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2007/01/30, Modified: 2019/11/22

Plugin Output

tcp/443/www

```
Response Code : HTTP/1.1 404 Not Found

Protocol version : HTTP/1.1
SSL : yes
Keep-Alive : no
Options allowed : (Not implemented)
Headers :

    Content-Type: text/html; charset=UTF-8
    Referrer-Policy: no-referrer
    Content-Length: 1561
    Date: Tue, 17 Oct 2023 11:21:24 GMT
    Alt-Svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000
    Connection: close

Response Body :
```

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

tcp/53/dns

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


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

tcp/80/www

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

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

tcp/443/www

```
Port 443/tcp was found to be open
```

19506 - 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

tcp/0

Information about this scan :

```
Nessus version : 10.6.1
Nessus build : 20021
Plugin feed version : 202310170613
Scanner edition used : Nessus Home
Scanner OS : WINDOWS
Scanner distribution : win-x86-64
Scan type : Normal
Scan name : Gruyere
```

```
Scan policy used : Basic Network Scan
Scanner IP : 192.168.1.129
Port scanner(s) : nessus_syn_scanner
Port range : default
Ping RTT : 260.612 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 : None
Allow post-scan editing : Yes
Nessus Plugin Signature Checking : Enabled
Audit File Signature Checking : Disabled
Scan Start Date : 2023/10/17 16:37 India Standard Time
Scan duration : 1622 sec
Scan for malware : no
```

11936 - 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: 2022/03/09

Plugin Output

tcp/0

```
Remote operating system : Microsoft Windows Server 2012 R2
Confidence level : 56
Method : MLSinFP
```

```
The remote host is running Microsoft Windows Server 2012 R2
```

50845 - 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

tcp/443/www

56984 - 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

tcp/443/www

```
This port supports TLSv1.3/TLSv1.0/TLSv1.1/TLSv1.2.
```

45410 - 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

tcp/443/www

The host name known by Nessus is :

ui-in-f153.1e100.net

The Common Name in the certificate is :

*.appspot-preview.com

The Subject Alternate Names in the certificate are :

*.an.r.appspot.com
*.app.google
*.appspot-preview.com
*.appspot.com
*.as.r.appspot.com
*.de.r.appspot.com
*.df.r.appspot.com
*.dt.r.appspot.com
*.du.r.appspot.com
*.el.r.appspot.com
*.em.r.appspot.com
*.et.r.appspot.com
*.ew.r.appspot.com
*.ey.r.appspot.com
*.ez.r.appspot.com
*.km.r.appspot.com
*.lm.r.appspot.com
*.lz.r.appspot.com


```
*.nn.r.appspot.com
*.nw.r.appspot.com
*.nz.r.appspot.com
*.oa.r.appspot.com
*.pd.r.appspot.com
*.rj.r.appspot.com
*.thinkwithgoogle.com
*.thinkwithgoogle.goog
*.ts.r.appspot.com
*.tz.r.appspot.com
*.uc.r.appspot.com
*.ue.r.appspot.com
*.ui.r.appspot.com
*.uk.r.appspot.com
*.uw.r.appspot.com
*.withgoogle.com
*.withyoutube.com
*.wl.r.appspot.com
*.wm.r.appspot.com
*.wn.r.appspot.com
api.projectshield.withgoogle.com
app.google
appspot-preview.com
appspot.com
thinkwithgoogle.com
thinkwithgoogle.goog
withgoogle.com
withyoutube.com
```

83298 - SSL Certificate Chain Contains Certificates Expiring Soon

Synopsis

The remote host has an SSL certificate chain with one or more certificates that are going to expire soon.

Description

The remote host has an SSL certificate chain with one or more SSL certificates that are going to expire soon. Failure to renew these certificates before the expiration date may result in denial of service for users.

Solution

Renew any soon to expire SSL certificates.

Risk Factor

None

Plugin Information

Published: 2015/05/08, Modified: 2015/05/08

Plugin Output

tcp/443/www

The following soon to expire certificate was part of the certificate chain sent by the remote host :

```
| -Subject      : CN=*.appspot-preview.com  
| -Not After   : Dec 11 08:19:01 2023 GMT
```

42981 - SSL Certificate Expiry - Future Expiry

Synopsis

The SSL certificate associated with the remote service will expire soon.

Description

The SSL certificate associated with the remote service will expire soon.

Solution

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

Risk Factor

None

Plugin Information

Published: 2009/12/02, Modified: 2020/09/04

Plugin Output

tcp/443/www

```
The SSL certificate will expire within 60 days, at  
Dec 11 08:19:01 2023 GMT :
```

```
Subject       : CN=*.appspot-preview.com  
Issuer        : C=US, O=Google Trust Services LLC, CN=GTS CA 1C3  
Not valid before : Sep 18 08:19:02 2023 GMT  
Not valid after  : Dec 11 08:19:01 2023 GMT
```

10863 - 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

tcp/443/www

```
Subject Name:

Common Name: *.appspot-preview.com

Issuer Name:

Country: US
Organization: Google Trust Services LLC
Common Name: GTS CA 1C3

Serial Number: 02 D8 8E 79 7D 96 14 97 10 18 30 2A C9 47 A5 B3

Version: 3

Signature Algorithm: SHA-256 With RSA Encryption

Not Valid Before: Sep 18 08:19:02 2023 GMT
Not Valid After: Dec 11 08:19:01 2023 GMT

Public Key Info:

Algorithm: RSA Encryption
Key Length: 2048 bits
Public Key: 00 AB 6F B8 05 2A 92 AA 37 2C 3C D9 6C 54 4A D4 48 9C D9 22
            24 AE 0E DC 14 8D 86 F2 AF 3E 9D E5 51 E8 35 FE BC FD 5A 95
            98 C1 EB D7 45 F5 28 29 A9 08 88 53 58 38 36 32 53 A4 32 67
            09 31 6D 98 48 B1 E4 DC 85 C6 8B 2F 2D ED C3 A7 03 E3 50 34
            F8 54 75 44 1B F0 08 D6 B6 26 52 C5 CD 70 E4 C9 17 93 E5 DA
            2C 88 1D 66 6C 93 79 BB AD 71 D5 17 18 96 88 72 88 09 A1 07
            56 6A 0C A3 34 20 6C 9C 04 22 EF 03 42 32 F3 8E DE 40 86 55
            9A FA 3B CF D7 DE B1 22 49 F7 BF 2D C8 C9 41 EA 9D BF 97 5C
            6C 25 4D B9 B9 30 E6 8F 56 21 3A 12 3B CC B6 B0 5D 89 4E DF
```

```
C0 3E E0 24 36 7E 1D 0A 96 FE F4 1E 85 C0 F1 E5 7A 81 75 AA
7E 64 1B 4D D8 B1 3F 84 6A C7 6D A1 92 28 E6 8E 5E A4 60 03
A8 2F B6 F9 DF 9E EA 90 75 48 72 A9 F1 A4 FB 82 18 65 B3 93
2A D1 70 12 B3 8E 96 19 A3 1E 26 1D FE DA 1F 3B B9
```

Exponent: 01 00 01

Signature Length: 256 bytes / 2048 bits

Signature: 00 74 E8 3C 83 84 BD 14 80 6E D1 EE C4 9D 28 50 A7 65 0A 21
E1 25 25 08 63 35 69 7E 74 AE 22 94 AF 3A 6F 2E 8C BA BB D5
E5 2C 2C C7 84 F5 A6 86 A9 3F 8A AA B7 0F 2E 3E BA FF E2 0D
78 D8 2A 60 89 2C E1 81 E4 80 95 4A 23 67 4B 05 5F 5E E0 40
05 97 2F D2 2A 4E 64 32 CD 48 51 B8 B2 EB 5B 34 13 BB B9 93
0C C3 AB 85 6E 95 03 69 98 BA F4 9A 5C 47 76 B9 FB 21 2D 52
6B 60 93 A3 C0 69 99 76 89 91 FD D5 66 B7 A0 DF C7 5F 5F BC
E3 87 1D B7 1D 20 5C 92 6B 60 88 66 7F 8F 7B 2F 00 E6 FD 8A
C7 CA 8E C8 33 24 9B A6 46 58 7D FF 0 [...]

95631 - SSL Certificate Signed Using Weak Hashing Algorithm (Known CA)

Synopsis

A known CA SSL certificate in the certificate chain has been signed using a weak hashing algorithm.

Description

The remote service uses a known CA certificate in the SSL certificate chain that has been signed using a cryptographically weak hashing algorithm (e.g., MD2, MD4, MD5, or SHA1). These signature algorithms are known to be vulnerable to collision attacks (CVE-2004-2761, for example). An attacker can exploit this to generate another certificate with the same digital signature, allowing the attacker to masquerade as the affected service.

Note that this plugin reports all SSL certificate chains signed with SHA-1 that expire after January 1, 2017 as vulnerable. This is in accordance with Google's gradual sunsetting of the SHA-1 cryptographic hash algorithm.

Note that this plugin will only fire on root certificates that are known certificate authorities as listed in Tenable Community Knowledge Article 000001752. That is what differentiates this plugin from plugin 35291, which will fire on any certificate, not just known certificate authority root certificates.

Known certificate authority root certificates are inherently trusted and so any potential issues with the signature, including it being signed using a weak hashing algorithm, are not considered security issues.

See Also

<http://www.nessus.org/u?ae636e78>

<https://tools.ietf.org/html/rfc3279>

<http://www.nessus.org/u?9bb87bf2>

Solution

Contact the Certificate Authority to have the certificate reissued.

Risk Factor

None

References

BID	11849
BID	33065
XREF	CWE:310

Plugin Information

Published: 2016/12/08, Modified: 2022/10/12

Plugin Output

tcp/443/www

The following known CA certificates were part of the certificate chain sent by the remote host, but contain hashes that are considered to be weak.

```
Subject          : C=BE/O=GlobalSign nv-sa/OU=Root CA/CN=GlobalSign Root CA
Signature Algorithm : SHA-1 With RSA Encryption
Valid From       : Sep 01 12:00:00 1998 GMT
Valid To         : Jan 28 12:00:00 2028 GMT
```

Raw PEM certificate :

-----BEGIN CERTIFICATE-----

```
MIIDdTCCA12gAwIBAgILBAAAAAABFUtaw5QwDQYJKoZIhvcNAQEFBQAwVzELMAkGA1UEBhMCQkUxGTAXBgNVBAoTEEdsb2JhbFNPZ24gbnYtc2ExEL
+pIH/EqsLmVEQS98GPR4mdmzxzdxtIK+6NiY6arymAZavpxy0Sy6scTHAHoT0KMM0VjU/43dSMUBUc71DuxC73/
OlS8pF94G3VNTCOXkNz8kHp1Wrjsok6Vjk4bwY8iGlbKk3FplS4bInMm/
k8yuX9ifUSPJJ41tbcdG6TRGHRjcdGsnUOhugZitVtbnV4FpWi6cgKOOvyJBNPc1STE4U6G7weNLWLBYY5d4ux2x8gkasJU26Qzns3dLlwr5EiUWMW
LCrBbB1DSgeF59N89iFo7+ryUp9/k5DPagMBAAGjQjBAMA4GA1UdDwEB/wQEAwIBBjAPBgqNVHRMBAf8EBTADAQH/
MB0GA1UdDgQWBBrge2YaRQ2XyolQL30EzTSo//
z9SzANBgkqhkiG9w0BAQUFAAOCAQEAlnPnfE920I2/7LqivjTFKDK1fPxsnCwrvQmeU79rXqoRSLblCKOzyj1hTdNGCbM
+w6DjY1Ub8rrvrTnhQ7k4o
+YviiY776BQVvnGCv04zcQLcFGU15gE38Nf1NUVyRRBnMRddWQVdf9VMOyGj/8N7yy5Y0b2qvzfvGn9LhJIZJrglfCm7ymPAbEVtQwdpf5pLGkkeB
+WymXUadDKqC5JlR3XC321Y9YeRq4VzW9v493kHMB65jUr9TU/Qr6cf9tveCX4XSQRjbgbMEHMUfpIBvFSDJ3gyICh3WZlXi/
EjKKSZp4A==
-----END CERTIFICATE-----
```

70544 - 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

tcp/443/www

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
DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	

SHA1

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
ECDHE-RSA-AES128-SHA	0xC0, 0x13	ECDH	RSA	AES-CBC (128)	
ECDHE-RSA-AES256-SHA	0xC0, 0x14	ECDH	RSA	AES-CBC (256)	

SHA1

AES128-SHA SHA1	0x00, 0x2F	RSA	RSA	AES-CBC (128)
AES256-SHA SHA1	0x00, 0x35	RSA	RSA	AES-CBC (256)

The fields above are :

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

21643 - 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

tcp/443/www

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

```
SSL Version : TLSv13
```

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

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
TLS_AES_128_GCM_SHA256	0x13, 0x01	-	-	AES-GCM(128)	
AEAD					
TLS_AES_256_GCM_SHA384	0x13, 0x02	-	-	AES-GCM(256)	
AEAD					
TLS_CHACHA20_POLY1305_SHA256	0x13, 0x03	-	-	ChaCha20-Poly1305(256)	
AEAD					

```
SSL Version : TLSv12
```

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

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

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
ECDHE-RSA-AES128-SHA256 SHA256	0xC0, 0x2F	ECDH	RSA	AES-GCM(128)	
ECDHE-RSA-AES256-SHA384 SHA384	0xC0, 0x30	ECDH	RSA	AES-GCM(256)	
ECDHE-RSA-CHACHA20-POLY1305 SHA256	0xCC, 0xA8	ECDH	RSA	ChaCha20-Poly1305(256)	
RSA-AES128-SHA256 SHA256	0x00, 0x9C	RSA	RSA	AES-GCM(128)	
RSA-AES256-SHA384 SHA384	0x00, 0x9D	RSA	RSA	AES-GCM(256)	
ECDHE-RSA-AES128-SHA SHA1	0xC0, 0x13	ECDH	RSA	AES-CBC(128)	
ECDHE-RSA-AES256-SHA SHA1	0xC0, 0x14	ECDH	RSA	AES-CBC(256)	
AES128 [...]					

57041 - 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/Perfect_forward_secrecy

Solution

n/a

Risk Factor

None

Plugin Information

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

Plugin Output

tcp/443/www

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

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
ECDHE-RSA-AES128-SHA256	0xC0, 0x2F	ECDH	RSA	AES-GCM(128)	
SHA256					
ECDHE-RSA-AES256-SHA384	0xC0, 0x30	ECDH	RSA	AES-GCM(256)	
SHA384					
ECDHE-RSA-CHACHA20-POLY1305	0xCC, 0xA8	ECDH	RSA	ChaCha20-Poly1305(256)	
SHA256					
ECDHE-RSA-AES128-SHA	0xC0, 0x13	ECDH	RSA	AES-CBC(128)	
SHA1					
ECDHE-RSA-AES256-SHA	0xC0, 0x14	ECDH	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}
```

94761 - SSL Root Certification Authority Certificate Information

Synopsis

A root Certification Authority certificate was found at the top of the certificate chain.

Description

The remote service uses an SSL certificate chain that contains a self-signed root Certification Authority certificate at the top of the chain.

See Also

[https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2003/cc778623\(v=ws.10\)](https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2003/cc778623(v=ws.10))

Solution

Ensure that use of this root Certification Authority certificate complies with your organization's acceptable use and security policies.

Risk Factor

None

Plugin Information

Published: 2016/11/14, Modified: 2018/11/15

Plugin Output

tcp/443/www

The following root Certification Authority certificate was found :

```
| -Subject          : C=BE/O=GlobalSign nv-sa/OU=Root CA/CN=GlobalSign Root CA
| -Issuer           : C=BE/O=GlobalSign nv-sa/OU=Root CA/CN=GlobalSign Root CA
| -Valid From       : Sep 01 12:00:00 1998 GMT
| -Valid To         : Jan 28 12:00:00 2028 GMT
| -Signature Algorithm : SHA-1 With RSA Encryption
```

156899 - 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://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

tcp/443/www

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
-----	-----	---	----	-----	---
DES-CBC3-SHA	0x00, 0x0A	RSA	RSA	3DES-CBC (168)	

SHA1

High Strength Ciphers (>= 112-bit key)

Name	Code	KEX	Auth	Encryption	MAC
-----	-----	---	----	-----	---
RSA-AES128-SHA256	0x00, 0x9C	RSA	RSA	AES-GCM (128)	
RSA-AES256-SHA384	0x00, 0x9D	RSA	RSA	AES-GCM (256)	
ECDHE-RSA-AES128-SHA	0xC0, 0x13	ECDH	RSA	AES-CBC (128)	
ECDHE-RSA-AES256-SHA	0xC0, 0x14	ECDH	RSA	AES-CBC (256)	
AES128-SHA	0x00, 0x2F	RSA	RSA	AES-CBC (128)	
AES256-SHA	0x00, 0x35	RSA	RSA	AES-CBC (256)	

The fields above are :

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


22964 - 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

tcp/80/www

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

22964 - 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

tcp/443/www

```
A TLSv1 server answered on this port.
```

tcp/443/www

```
A web server is running on this port through TLSv1.
```

25220 - 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: 2019/03/06

Plugin Output

tcp/0

84821 - TLS ALPN Supported Protocol Enumeration

Synopsis

The remote host supports the TLS ALPN extension.

Description

The remote host supports the TLS ALPN extension. This plugin enumerates the protocols the extension supports.

See Also

<https://tools.ietf.org/html/rfc7301>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2015/07/17, Modified: 2023/07/10

Plugin Output

tcp/443/www

```
http/1.1  
h2
```

87242 - TLS NPN Supported Protocol Enumeration

Synopsis

The remote host supports the TLS NPN extension.

Description

The remote host supports the TLS NPN (Transport Layer Security Next Protocol Negotiation) extension. This plugin enumerates the protocols the extension supports.

See Also

<https://tools.ietf.org/id/draft-agl-tls-nextprotoneg-03.html>

Solution

n/a

Risk Factor

None

Plugin Information

Published: 2015/12/08, Modified: 2023/07/10

Plugin Output

tcp/443/www

NPN Supported Protocols:

```
grpc-exp
h2
http/1.1
```

62564 - TLS Next Protocols Supported

Synopsis

The remote service advertises one or more protocols as being supported over TLS.

Description

This script detects which protocols are advertised by the remote service to be encapsulated by TLS connections.

Note that Nessus did not attempt to negotiate TLS sessions with the protocols shown. The remote service may be falsely advertising these protocols and / or failing to advertise other supported protocols.

See Also

<https://tools.ietf.org/html/draft-agl-tls-nextprotoneg-04>

<https://technotes.googlecode.com/git/nextprotoneg.html>

Solution

n/a

Risk Factor

None

Plugin Information

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

Plugin Output

tcp/443/www

```
The target advertises that the following protocols are
supported over SSL / TLS:
```

```
  grpc-exp
  h2
  http/1.1
```

121010 - TLS Version 1.1 Protocol Detection

Synopsis

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

Description

The remote service accepts connections encrypted using TLS 1.1.

TLS 1.1 lacks support for current and recommended cipher suites.

Ciphers that support encryption before MAC computation, and authenticated encryption modes such as GCM cannot be used with TLS 1.1

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

See Also

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

<http://www.nessus.org/u?c8ae820d>

Solution

Enable support for TLS 1.2 and/or 1.3, and disable support for TLS 1.1.

Risk Factor

None

References

XREF CWE:327

Plugin Information

Published: 2019/01/08, Modified: 2023/04/19

Plugin Output

tcp/443/www

```
TLSv1.1 is enabled and the server supports at least one cipher.
```

136318 - TLS Version 1.2 Protocol Detection

Synopsis

The remote service encrypts traffic using a version of TLS.

Description

The remote service accepts connections encrypted using TLS 1.2.

See Also

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

Solution

N/A

Risk Factor

None

Plugin Information

Published: 2020/05/04, Modified: 2020/05/04

Plugin Output

tcp/443/www

```
TLSv1.2 is enabled and the server supports at least one cipher.
```


10287 - 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: 2023/06/26

Plugin Output

udp/0

```
For your information, here is the traceroute from 192.168.1.129 to 142.250.97.153 :
192.168.1.129
142.250.97.153
```

```
Hop Count: 1
```