QUALYS SSL LABS

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SSL Report: lists.cacert.org (213.154.225.231)

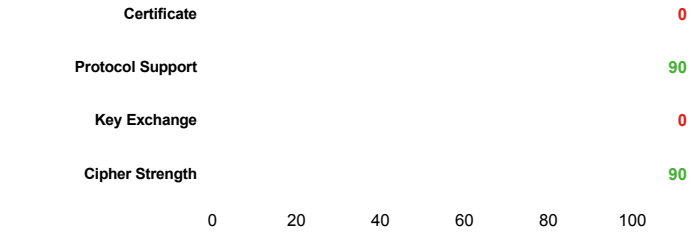
Assessed on: Sun Dec 14 03:14:28 PST 2014 | Clear cache

Scan Anoth

Summary

Overall Rating

F



Visit our documentation page for more information, configuration guides, and books. Known issues are documented here.

This server's certificate is not trusted, see below for details.

This server supports anonymous (insecure) suites (see below for details). Grade set to F.

This server is vulnerable to the POODLE attack. If possible, disable SSL 3 to mitigate. Grade capped to C. MORE INFO »

The server does not support Forward Secrecy with the reference browsers. MORE INFO »

This server supports TLS_FALLBACK_SCSV to prevent protocol downgrade attacks.

Authentication

Server Key and Certificate #1

Common names	lists.cacert.org
Alternative names	lists.cacert.org cert.lists.cacert.org nocert.lists.cacert.org
Prefix handling	Not required for subdomains
Valid from	Tue Apr 08 14:53:18 PDT 2014
Valid until	Thu Apr 07 14:53:18 PDT 2016 (expires in 1 year and 3 months)
Key	RSA 4096 bits (e 65537)
Weak key (Debian)	No
Issuer	CA Cert Signing Authority
Signature algorithm	SHA512withRSA
Extended Validation	No
Revocation information	CRL, OCSP
Revocation status	Unchecked (only trusted certificates can be checked)
Trusted	No **NOT TRUSTED** (Why?)

Additional Certificates (if supplied)

Certificates provided	2 (3606 bytes)
Chain issues	**Extra certs, Contains anchor**

#2

Subject	CA Cert Signing Authority Not in trust store Fingerprint: 135cec36f49cb8e93b1ab270cd80884676ce8f33
Valid until	Tue Mar 29 05:29:49 PDT 2033 (expires in 18 years and 3 months)
Key	RSA 4096 bits (e 65537)
Issuer	CA Cert Signing Authority Self-signed
Signature algorithm	MD5withRSA Weak, but no impact on root certificate

Certification Paths

Path #1: Not trusted (path does not chain to a trusted anchor)

1	Sent by server	lists.cacert.org Fingerprint: 6aae1690a21fcc1bb79371c01bbd2e14686945ea RSA 4096 bits (e 65537) / SHA512withRSA
2	Sent by server Not in trust store	CA Cert Signing Authority Self-signed Fingerprint: 135cec36f49cb8e93b1ab270cd80884676ce8f33 RSA 4096 bits (e 65537) / MD5withRSA Weak or insecure signature, but no impact on root certificate

Configuration

Protocols

TLS 1.2	Yes
TLS 1.1	Yes
TLS 1.0	Yes
SSL 3 **INSECURE**	Yes
SSL 2	No

Cipher Suites (sorted by strength; the server has no preference)

TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)	128
TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x33) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	128
TLS_DH_anon_WITH_AES_128_CBC_SHA (0x34) **INSECURE**	128
TLS_RSA_WITH_CAMELLIA_128_CBC_SHA (0x41)	128
TLS_DHE_RSA_WITH_CAMELLIA_128_CBC_SHA (0x45) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	128
TLS_DH_anon_WITH_CAMELLIA_128_CBC_SHA (0x46) **INSECURE**	128
TLS_RSA_WITH_SEED_CBC_SHA (0x96)	128
TLS_DHE_RSA_WITH_SEED_CBC_SHA (0x9a) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	128
TLS_DH_anon_WITH_SEED_CBC_SHA (0x9b) **INSECURE**	128
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) ECDH 256 bits (eq. 3072 bits RSA) FS	128
TLS_ECDH_anon_WITH_AES_128_CBC_SHA (0xc018) **INSECURE**	128
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c)	128
TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (0x67) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	128
TLS_DH_anon_WITH_AES_128_CBC_SHA256 (0x6c) **INSECURE**	128
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)	128
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	128

Cipher Suites (sorted by strength; the server has no preference)

TLS_DH_anon_WITH_AES_128_GCM_SHA256 (0xa6) **INSECURE**	128
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027) ECDH 256 bits (eq. 3072 bits RSA) FS	128
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f) ECDH 256 bits (eq. 3072 bits RSA) FS	128
TLS_RSA_WITH_3DES_EDE_CBC_SHA (0xa)	112
TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA (0x16) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	112
TLS_DH_anon_WITH_3DES_EDE_CBC_SHA (0x1b) **INSECURE**	112
TLS_ECDHE_RSA_WITH_3DES_EDE_CBC_SHA (0xc012) ECDH 256 bits (eq. 3072 bits RSA) FS	112
TLS_ECDH_anon_WITH_3DES_EDE_CBC_SHA (0xc017) **INSECURE**	112
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)	256
TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	256
TLS_DH_anon_WITH_AES_256_CBC_SHA (0x3a) **INSECURE**	256
TLS_RSA_WITH_CAMELLIA_256_CBC_SHA (0x84)	256
TLS_DHE_RSA_WITH_CAMELLIA_256_CBC_SHA (0x88) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	256
TLS_DH_anon_WITH_CAMELLIA_256_CBC_SHA (0x89) **INSECURE**	256
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) ECDH 256 bits (eq. 3072 bits RSA) FS	256
TLS_ECDH_anon_WITH_AES_256_CBC_SHA (0xc019) **INSECURE**	256
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d)	256
TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (0x6b) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	256
TLS_DH_anon_WITH_AES_256_CBC_SHA256 (0x6d) **INSECURE**	256
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d)	256
TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f) DH 1024 bits (p: 128, g: 1, Ys: 128) FS	256
TLS_DH_anon_WITH_AES_256_GCM_SHA384 (0xa7) **INSECURE**	256
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) ECDH 256 bits (eq. 3072 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) ECDH 256 bits (eq. 3072 bits RSA) FS	256

Handshake Simulation

Android 2.3.7 No SNI [2]	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) No FS	128
Android 4.0.4	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) FS	256
Android 4.1.1	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) FS	256
Android 4.2.2	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) FS	256
Android 4.3	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) FS	256
Android 4.4.2	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) FS	256
BingBot Dec 2013 No SNI [2]	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) No FS	128
BingPreview Jun 2014	TLS 1.0	TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39) FS	256
Chrome 39 / OS X R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f) FS	128
Firefox 31.3.0 ESR / Win 7	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f) FS	128
Firefox 34 / OS X R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f) FS	128
Googlebot Jun 2014	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) FS	128
IE 6 / XP No FS [1] No SNI [2]	SSL 3	TLS_RSA_WITH_3DES_EDE_CBC_SHA (0xa) No FS	112
IE 7 / Vista	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) No FS	128
IE 8 / XP No FS [1] No SNI [2]	TLS 1.0	TLS_RSA_WITH_3DES_EDE_CBC_SHA (0xa) No FS	112
IE 8-10 / Win 7 R	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) No FS	128
IE 11 / Win 7 R	TLS 1.2	TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c) No FS	128
IE 11 / Win 10 Preview R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) FS	256
IE 11 / Win 8.1 R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) FS	256
IE Mobile 10 / Win Phone 8.0	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) No FS	128
IE Mobile 11 / Win Phone 8.1	TLS 1.2	TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c) No FS	128
Java 6u45 No SNI [2]	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) No FS	128

Handshake Simulation

Java 7u25	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) FS	128
Java 8b132	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027) FS	128
OpenSSL 0.9.8y	TLS 1.0	TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39) FS	256
OpenSSL 1.0.1h	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) FS	256
Safari 5.1.9 / OS X 10.6.8	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) FS	128
Safari 6 / iOS 6.0.1 R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) FS	256
Safari 7 / iOS 7.1 R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) FS	256
Safari 8 / iOS 8.0 Beta R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) FS	256
Safari 6.0.4 / OS X 10.8.4 R	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) FS	256
Safari 7 / OS X 10.9 R	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) FS	256
Yahoo Slurp Jun 2014 No SNI [2]	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) FS	256
YandexBot Sep 2014	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) FS	256

(1) Clients that do not support Forward Secrecy (FS) are excluded when determining support for it.

(2) No support for virtual SSL hosting (SNI). Connects to the default site if the server uses SNI.

(R) Denotes a reference browser or client, with which we expect better effective security.

(All) We use defaults, but some platforms do not use their best protocols and features (e.g., Java 6 & 7, older IE).

Protocol Details

Secure Renegotiation	**Supported**
Secure Client-Initiated Renegotiation	No
Insecure Client-Initiated Renegotiation	No
BEAST attack	Not mitigated server-side (more info) SSL 3: 0x2f, TLS 1.0: 0x2f
POODLE (SSLv3)	**Vulnerable INSECURE** (more info)
POODLE (TLS)	No (more info)
Downgrade attack prevention	**Yes, TLS_FALLBACK_SCSV supported** (more info)
TLS compression	No
RC4	No
Heartbeat (extension)	Yes
Heartbleed (vulnerability)	No (more info)
OpenSSL CCS vuln. (CVE-2014-0224)	No (more info)
Forward Secrecy	**With some browsers** (more info)
Next Protocol Negotiation (NPN)	No
Session resumption (caching)	Yes
Session resumption (tickets)	Yes
OCSP stapling	No
Strict Transport Security (HSTS)	No
Public Key Pinning (HPKP)	No
Long handshake intolerance	No
TLS extension intolerance	No
TLS version intolerance	**TLS 2.98**
SSL 2 handshake compatibility	Yes

Miscellaneous

Test date	Sun Dec 14 03:12:09 PST 2014
Test duration	138.512 seconds
HTTP status code	200
HTTP server signature	Apache
Server hostname	lists.cacert.org

Why is my certificate not trusted?

There are many reasons why a certificate may not be trusted. The exact problem is indicated on the report card in bright red. The problems fall int categories:

1. Invalid certificate
2. Invalid configuration
3. Unknown Certificate Authority

1. Invalid certificate

A certificate is invalid if:

- It is used before its activation date
- It is used after its expiry date
- Certificate hostnames don't match the site hostname
- It has been revoked

2. Invalid configuration

In some cases, the certificate chain does not contain all the necessary certificates to connect the web server certificate to one of the root certificate our trust store. Less commonly, one of the certificates in the chain (other than the web server certificate) will have expired, and that invalidates the chain.

3. Unknown Certificate Authority

In order for trust to be established, we must have the root certificate of the signing Certificate Authority in our trust store. SSL Labs does not maint own trust store; instead we use the store maintained by Mozilla.

If we mark a web site as not trusted, that means that the average web user's browser will not trust it either. For certain special groups of users, suc sites can still be secure. For example, if you can securely verify that a self-signed web site is operated by a person you trust, then you can trust tha self-signed web site too. Or, if you work for an organisation that manages its own trust, and you have their own root certificate already embedded i browser. Such special cases do not work for the general public, however, and this is what we indicate on our report card.

4. Interoperability issues

In some rare cases trust cannot be established because of interoperability issues between our code and the code or configuration running on the s We manually review such cases, but if you encounter such an issue please feel free to contact us. Such problems are very difficult to troubleshoot you may be able to provide us with information that might help us determine the root cause.

SSL Report v1.11.1