

Qualys SSL Labs: SSL report

Host

libtest.caplin.com

Date

Sun, 5 Jun 2022 09:03:38 UTC

Liberator version

7.1.24

Liberator configuration

```
# Disable TLS versions SSLv2, SSLv3, TLSv1, and TLSv1.1
# (retain TLSv1.2 and TLSv1.3)
https-ssl-options SSL_OP_NO_SSLv2|SSL_OP_NO_SSLv3|SSL_OP_NO_TLSv1|
SSL_OP_NO_TLSv1_1

# Set OpenSSL cipher list
https-cipher-list "ECDHE+TLSv1.2+AESGCM ECDHE+TLSv1.2+AESCCM
ECDHE+TLSv1.2+CHACHA20 DHE+TLSv1.2+AESGCM DHE+TLSv1.2+AESCCM
DHE+TLSv1.2+CHACHA20"

# Diffie-Hellman parameters file (required for DHE cipher support)
https-dhparams ${SSLCERT_PATH}/rttpe-dhparam-2048.pem
```

Description

- Suitable for modern TLS clients that support TLS 1.2 and/or TLS 1.3
- Protocol versions: TLS 1.2 and TLS 1.3
- TLS 1.3 ciphers: all mandatory ciphers
- TLS 1.2 ciphers: forward secrecy (ECDHE and DHE) ciphers that implement AES-GCM, AES-CCM, or CHACHA20 encryption
- Diffie-Hellman parameters file: 2048 bit

References

- [Configure how Liberator handles HTTPS connections](#)
- [SSL Labs SSL and TLS deployment best practices](#)
- [SSL Labs server rating guide](#)

The Liberator configuration used in this report is provided for illustrative purposes only and does not constitute security advice. Review all TLS configuration before deploying to production, and schedule regular reviews thereafter.

Protocols and ciphers may weaken over time. The score achieved by the above configuration on 5 Jun 2022 may not be achieved today.

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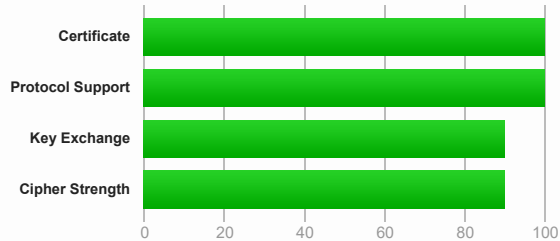
SSL Report: libtest.caplin.com (94.31.7.221)

Assessed on: Sun, 05 Jun 2022 09:03:38 UTC | [HIDDEN](#) | [Clear cache](#)

[Scan Another »](#)

Summary

Overall Rating



Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server supports TLS 1.3.

HTTP Strict Transport Security (HSTS) with long duration deployed on this server. [MORE INFO »](#)

Certificate #1: RSA 2048 bits (SHA256withRSA)



Server Key and Certificate #1



Subject	*.caplin.com Fingerprint SHA256: 6fcd2a6d98aa529ccff656f35f15a8da4c2f85ad5e37f7d8c39693ed0472f92 Pin SHA256: BQVGx9UINizO5ifcgeEohLLOtSV/XMbRPgdP3cZYQ+8=
Common names	*.caplin.com
Alternative names	*.caplin.com caplin.com
Serial Number	5716786e8f1f1b90
Valid from	Wed, 16 Jun 2021 10:36:58 UTC
Valid until	Mon, 18 Jul 2022 10:36:58 UTC (expires in 1 month and 13 days)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	Go Daddy Secure Certificate Authority - G2 AIA: http://certificates.godaddy.com/repository/gdig2.crt
Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crl.godaddy.com/gdig2s1-3048.crl OCSP: http://ocsp.godaddy.com/
Revocation status	Good (not revoked)
DNS CAA	No (more info)
Trusted	Yes Mozilla Apple Android Java Windows



Additional Certificates (if supplied)



Certificates provided	4 (5129 bytes)
Chain issues	Contains anchor

#2

Additional Certificates (if supplied)

Go Daddy Secure Certificate Authority - G2	
Subject	Fingerprint SHA256: 973a41276ffd01e027a2aad49e34c37846d3e976ff6a620b6712e33832041aa6 Pin SHA256: 8Rw90Ej3Tt8RRkrq+WYDS9n7IS03bk5bjPUXPTaY8=
Valid until	Sat, 03 May 2031 07:00:00 UTC (expires in 8 years and 10 months)
Key	RSA 2048 bits (e 65537)
Issuer	Go Daddy Root Certificate Authority - G2
Signature algorithm	SHA256withRSA

#3

Go Daddy Root Certificate Authority - G2	
Subject	Fingerprint SHA256: 3a2fbe92891e57fe05d57087f48e730f17e5a5f53ef403d618e5b74d7a7e6ecb Pin SHA256: Ko8tivDrEjY90yGasP6ZpBU4jwXvHqVvQIOGS3GNdA=
Valid until	Fri, 30 May 2031 07:00:00 UTC (expires in 8 years and 11 months)
Key	RSA 2048 bits (e 65537)
Issuer	The Go Daddy Group, Inc. / Go Daddy Class 2 Certification Authority
Signature algorithm	SHA256withRSA

#4

The Go Daddy Group, Inc. / Go Daddy Class 2 Certification Authority In trust store	
Subject	Fingerprint SHA256: c3846bf24b9e93ca64274c0ec67c1ecc5e024ffcacd2d74019350e81fe546ae4 Pin SHA256: VjLZe/p3W/PJnd6IL8JVNBCGQBZynFLdZSTlqc00SJ8=
Valid until	Thu, 29 Jun 2034 17:06:20 UTC (expires in 12 years)
Key	RSA 2048 bits (e 3)
Issuer	The Go Daddy Group, Inc. / Go Daddy Class 2 Certification Authority Self-signed
Signature algorithm	SHA1withRSA Weak, but no impact on root certificate



Certification Paths

[Click here to expand](#)

Configuration



Protocols

TLS 1.3	Yes
TLS 1.2	Yes
TLS 1.1	No
TLS 1.0	No
SSL 3	No
SSL 2	No



Cipher Suites

# TLS 1.3 (server has no preference)			[-]
TLS_AES_128_GCM_SHA256 (0x1301)	ECDH x25519 (eq. 3072 bits RSA) FS		128
TLS_AES_256_GCM_SHA384 (0x1302)	ECDH x25519 (eq. 3072 bits RSA) FS		256
TLS_CHACHA20_POLY1305_SHA256 (0x1303)	ECDH x25519 (eq. 3072 bits RSA) FS		256
# TLS 1.2 (server has no preference)			[-]
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e)	DH 2048 bits FS		128
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH secp521r1 (eq. 15360 bits RSA) FS		128
TLS_DHE_RSA_WITH_AES_128_CCM (0xc09e)	DH 2048 bits FS		128
TLS_DHE_RSA_WITH_AES_128_CCM_8 (0xc0a2)	DH 2048 bits FS		128
TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f)	DH 2048 bits FS		256
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp521r1 (eq. 15360 bits RSA) FS		256
TLS_DHE_RSA_WITH_AES_256_CCM (0xc09f)	DH 2048 bits FS		256
TLS_DHE_RSA_WITH_AES_256_CCM_8 (0xc0a3)	DH 2048 bits FS		256

Cipher Suites

TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xc8a8)	ECDH secp521r1 (eq. 15360 bits RSA)	FS	256
TLS_DHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xc8aa)	DH 2048 bits	FS	256



Handshake Simulation

Android 4.4.2	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1	FS
Android 5.0.0	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp521r1	FS
Android 6.0	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Android 7.0	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
Android 8.0	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
Android 8.1	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
Android 9.0	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
BingPreview Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1	FS
Chrome 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Chrome 69 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH x25519	FS
Chrome 70 / Win 10	-	TLS 1.3	TLS_AES_128_GCM_SHA256	ECDH x25519	FS
Chrome 80 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256	ECDH x25519	FS
Firefox 31.3.0 ESR / Win 7	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Firefox 47 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Firefox 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Firefox 62 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH x25519	FS
Firefox 73 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256	ECDH x25519	FS
Googlebot Feb 2018	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH x25519	FS
IE 11 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048	FS
IE 11 / Win 8.1 R	RSA 2048 (SHA256)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048	FS
IE 11 / Win Phone 8.1 R	Server sent fatal alert: handshake_failure				
IE 11 / Win Phone 8.1 Update R	RSA 2048 (SHA256)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048	FS
IE 11 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Edge 15 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 16 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 18 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 13 / Win Phone 10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Java 8u161	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Java 11.0.3	-	TLS 1.3	TLS_AES_128_GCM_SHA256	ECDH secp256r1	FS
Java 12.0.1	-	TLS 1.3	TLS_AES_128_GCM_SHA256	ECDH secp256r1	FS
OpenSSL 1.0.1l R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1	FS
OpenSSL 1.0.2s R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
OpenSSL 1.1.0k R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
OpenSSL 1.1.1c R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Safari 6 / iOS 6.0.1	Server sent fatal alert: handshake_failure				
Safari 7 / iOS 7.1 R	Server sent fatal alert: handshake_failure				
Safari 7 / OS X 10.9 R	Server sent fatal alert: handshake_failure				
Safari 8 / iOS 8.4 R	Server sent fatal alert: handshake_failure				
Safari 8 / OS X 10.10 R	Server sent fatal alert: handshake_failure				
Safari 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 9 / OS X 10.11 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / iOS 10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / OS X 10.12 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 12.1.2 / MacOS 10.14.6 Beta R	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
Safari 12.1.1 / iOS 12.3.1 R	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
Apple ATS 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Yahoo Slurp Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp384r1	FS
YandexBot Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1	FS

Handshake Simulation

Not simulated clients (Protocol mismatch)

[Click here to expand](#)

- (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.
 (3) Only first connection attempt simulated. Browsers sometimes retry with a lower protocol version.
 (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).
 (All) Certificate trust is not checked in handshake simulation, we only perform TLS handshake.



Protocol Details

Unable to perform this test due to an internal error.

DROWN

- (1) For a better understanding of this test, please read [this longer explanation](#)
 (2) Key usage data kindly provided by the [Censys](#) network search engine; original DROWN website [here](#)
 (3) Censys data is only indicative of possible key and certificate reuse; possibly out-of-date and not complete
- INTERNAL ERROR: Connection refused (Connection refused)**
INTERNAL ERROR: Connection refused (Connection refused)

Secure Renegotiation	Supported
Secure Client-Initiated Renegotiation	No
Insecure Client-Initiated Renegotiation	No
BEAST attack	Mitigated server-side (more info)
POODLE (SSLv3)	No, SSL 3 not supported (more info)
POODLE (TLS)	No (more info)
Zombie POODLE	No (more info)
GOLDENDOODLE	No (more info)
OpenSSL 0-Length	No (more info)
Sleeping POODLE	No (more info)
Downgrade attack prevention	Yes, TLS_FALLBACK_SCSV supported (more info)
SSL/TLS compression	No
RC4	No
Heartbeat (extension)	No
Heartbleed (vulnerability)	No (more info)
Ticketbleed (vulnerability)	No (more info)
OpenSSL CCS vuln. (CVE-2014-0224)	No (more info)
OpenSSL Padding Oracle vuln. (CVE-2016-2107)	No (more info)
ROBOT (vulnerability)	No (more info)
Forward Secrecy	Yes (with most browsers) ROBUST (more info)
ALPN	No
NPN	No
Session resumption (caching)	No (IDs assigned but not accepted)
Session resumption (tickets)	Yes
OCSF stapling	No
Strict Transport Security (HSTS)	Yes max-age=31536000; includeSubDomains
HSTS Preloading	Not in: Chrome Edge Firefox IE
Public Key Pinning (HPKP)	No (more info)
Public Key Pinning Report-Only	No
Public Key Pinning (Static)	No (more info)
Long handshake intolerance	No
TLS extension intolerance	No
TLS version intolerance	No
Incorrect SNI alerts	No
Uses common DH primes	No
DH public server param (Ys) reuse	No
ECDH public server param reuse	No
Supported Named Groups	secp256r1, secp384r1, secp521r1, x25519, x448 (Server has no preference)
SSL 2 handshake compatibility	Yes
0-RTT enabled	No



HTTP Requests



1 <https://libtest.caplin.com/> (HTTP/1.1 200 OK)



Miscellaneous

Test date	Sun, 05 Jun 2022 09:02:23 UTC
Test duration	74.553 seconds
HTTP status code	200
HTTP server signature	unknown
Server hostname	94.31.7.221.available.above.net

SSL Report v2.1.10