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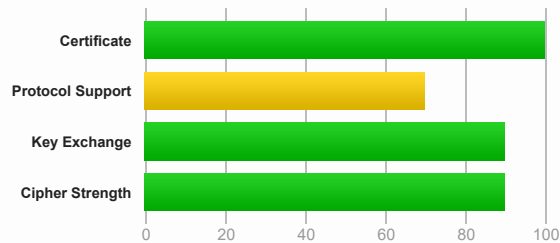
SSL Report: [google.com](#) (172.217.6.46)

Assessed on: Fri, 22 Oct 2021 15:50:29 UTC | **HIDDEN** | [Clear cache](#)

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Summary

Overall Rating



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

This server supports TLS 1.0 and TLS 1.1. Grade capped to B. [MORE INFO »](#)

This server supports TLS 1.3.

Static Public Key Pinning observed for this server.

DNS Certification Authority Authorization (CAA) Policy found for this domain. [MORE INFO »](#)

Certificate #1: EC 256 bits (SHA256withRSA)



Server Key and Certificate #1



Subject

*.google.com

Fingerprint SHA256: ab20ae9869da227112b2d18d8a9e94ddf96eedc0fe00749ab918fd00dc4e2ba

Pin SHA256: S277i3ppQDFGfORRlAsV41ndWldgd5P850CrXhulCc=

Common names

*.google.com

Alternative names

*.google.com *.appengine.google.com *.bdn.dev *.cloud.google.com *.crowdsourcing.google.com
 *.datacompute.google.com *.google.ca *.google.cl *.google.co.in *.google.co.jp *.google.co.uk *.google.com.ar
 *.google.com.au *.google.com.br *.google.com.co *.google.com.mx *.google.com.tr *.google.com.vn
 *.google.de *.google.es *.google.fr *.google.hu *.google.it *.google.nl *.google.pl *.google.pt
 *.googleadapis.com *.googleapis.com *.googlevideo.com *.gstatic.cn *.gstatic-cn.com *.gstaticcnapps.cn
 googlecnapps.cn *.googlecnapps.cn googleapps-cn.com *.googleapps-cn.com gkecnapps.cn *.gkecnapps.cn
 googledownloads.cn *.googledownloads.cn recaptcha.net.cn *.recaptcha.net.cn widevine.cn *.widevine.cn
 ampproject.org.cn *.ampproject.org.cn ampproject.net.cn *.ampproject.net.cn google-analytics-cn.com
 *.google-analytics-cn.com googleadservices-cn.com *.googleadservices-cn.com googleads-cn.com
 *.googleads-cn.com googleapis-cn.com *.googleapis-cn.com googleoptimize-cn.com *.googleoptimize-cn.com
 doubleclick-cn.net *.doubleclick-cn.net *.fls.doubleclick-cn.net *.g.doubleclick-cn.net doubleclick.cn
 *.doubleclick.cn *.fls.doubleclick.cn *.g.doubleclick.cn dartsearch-cn.net *.dartsearch-cn.net googletraveladser-
 vices-cn.com *.googletraveladservices-cn.com googletagservices-cn.com *.googletagservices-cn.com google-
 tagmanager-cn.com *.googletagmanager-cn.com googlesyndication-cn.com *.googlesyndication-cn.com
 *.safeframe.googlesyndication-cn.com app-measurement-cn.com *.app-measurement-cn.com gvt1-cn.com
 *.gvt1-cn.com gvt2-cn.com *.gvt2-cn.com 2mdn-cn.net *.2mdn-cn.net googleflights-cn.net *.googleflights-cn.net
 admob-cn.com *.admob-cn.com *.gstatic.com *.metric.gstatic.com *.gvt1.com *.gcpcdn.gvt1.com *.gvt2.com
 *.gcp.gvt2.com *.url.google.com *.youtube-nocookie.com *.ytimg.com android.com *.android.com
 *.flash.android.com g.cn *.g.cn *.g.co *.g.co goo.gl www.goo.gl google-analytics.com *.google-analytics.com
 google.com googlecommerce.com *.googlecommerce.com ggph.cn *.ggph.cn urchin.com *.urchin.com
 youtu.be youtube.com *.youtube.com youtubeeducation.com *.youtubeeducation.com youtubekids.com
 *.youtubekids.com yt.be *.yt.be android.clients.google.com developer.android.google.cn
 developers.android.google.cn source.android.google.cn

Server Key and Certificate #1



Serial Number	2ea11a4044901d750a000000108ab6f
Valid from	Mon, 04 Oct 2021 01:22:46 UTC
Valid until	Mon, 27 Dec 2021 01:22:45 UTC (expires in 2 months and 4 days)
Key	EC 256 bits
Weak key (Debian)	No
Issuer	GTS CA 1C3 AIA: http://pki.goog/repo/certs/gts1c3.der
Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crls.pki.goog/gts1c3/QqFxbi9M48c.crl OCSP: http://ocsp.pki.goog/gts1c3
Revocation status	Good (not revoked)
DNS CAA	Yes policy host: google.com issue: pki.goog flags:0
Trusted	Yes Mozilla Apple Android Java Windows



Additional Certificates (if supplied)



Certificates provided	3 (6345 bytes)
Chain issues	None

#2

Subject	GTS CA 1C3 Fingerprint SHA256: 23ecb03eec17338c4e33a6b48a41dc3cda12281bbc3ff813c0589d6cc2387522 Pin SHA256: zCTnfLwLKbS9S2sbp+uFz4KZOocFvXxkV06Ce9O5M2w=
Valid until	Thu, 30 Sep 2027 00:00:42 UTC (expires in 5 years and 11 months)
Key	RSA 2048 bits (e 65537)
Issuer	GTS Root R1
Signature algorithm	SHA256withRSA

#3

Subject	GTS Root R1 Fingerprint SHA256: 3ee0278df71fa3c125c4d487f01d774694e6fc57e0cd94c24efd769133918e5 Pin SHA256: hxqRIPtu1bMS/ODITB1SSu0vd4u/8l8TjPgfaAp63Gc=
Valid until	Fri, 28 Jan 2028 00:00:42 UTC (expires in 6 years and 3 months)
Key	RSA 4096 bits (e 65537)
Issuer	GlobalSign Root CA
Signature algorithm	SHA256withRSA



Certification Paths



[Click here to expand](#)

Certificate #2: RSA 2048 bits (SHA256withRSA)



Server Key and Certificate #1



Subject	*.google.com Fingerprint SHA256: c7eefc4f96f93537b5becec7392be3583032d4be56cf71829ec5ad2d497a5222 Pin SHA256: BmGq7Xu9QVhViv6GN9Uw/cRZ2TPL0fjDN7DEHhHRhrc=
Common names	*.google.com

Additional Certificates (if supplied)Valid until

Additional Certificates (if supplied)



Key	RSA 4096 bits (e 65537)
Issuer	GlobalSign Root CA
Signature algorithm	SHA256withRSA



Certification Paths



Click here to expand

Configuration



Protocols

TLS 1.3	Yes
TLS 1.2	Yes
TLS 1.1	Yes
TLS 1.0	Yes
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 (suites in server-preferred order)			
TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 (0xc02b)	ECDH x25519 (eq. 3072 bits RSA) FS		128
TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca9)	ECDH x25519 (eq. 3072 bits RSA) FS		256 ^P
TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 (0xc02c)	ECDH x25519 (eq. 3072 bits RSA) FS		256
TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA (0xc009)	ECDH x25519 (eq. 3072 bits RSA) FS	WEAK	128
TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA (0xc00a)	ECDH x25519 (eq. 3072 bits RSA) FS	WEAK	256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH x25519 (eq. 3072 bits RSA) FS		128
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca8)	ECDH x25519 (eq. 3072 bits RSA) FS		256 ^P
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH x25519 (eq. 3072 bits RSA) FS		256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH x25519 (eq. 3072 bits RSA) FS	WEAK	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH x25519 (eq. 3072 bits RSA) FS	WEAK	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)		WEAK	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)		WEAK	256
TLS_RSA_WITH_3DES_EDE_CBC_SHA (0xa)		WEAK	112
# TLS 1.1 (suites in server-preferred order)			
# TLS 1.0 (suites in server-preferred order)			

(P) This server prefers ChaCha20 suites with clients that don't have AES-NI (e.g., Android devices)



Handshake Simulation

Android 2.3.7 No SNI ²	RSA 2048 (SHA256)	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA No FS
Android 4.0.4	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS

Handshake Simulation

Android 4.1.1	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.2.2	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.3	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.4.2	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 5.0.0	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 6.0	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 7.0	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Android 8.0	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_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
Baidu Jan 2015	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
BingPreview Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Chrome 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Chrome 69 / Win 7 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_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	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 47 / Win 7 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 49 / XP SP3	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 62 / Win 7 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_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	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
IE 7 / Vista	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
IE 8 / XP No FS ¹ No SNI ²	RSA 2048 (SHA256)	TLS 1.0	TLS_RSA_WITH_3DES_EDE_CBC_SHA
IE 8-10 / Win 7 R	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
IE 11 / Win 7 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
IE 11 / Win 8.1 R	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
IE 10 / Win Phone 8.0	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
IE 11 / Win Phone 8.1 R	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
IE 11 / Win Phone 8.1 Update R	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
IE 11 / Win 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 15 / Win 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
Edge 16 / Win 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
Edge 18 / Win 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
Edge 13 / Win Phone 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Java 6u45 No SNI ²	RSA 2048 (SHA256)	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA No FS
Java 7u25	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Java 8u161	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 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 0.9.8y	RSA 2048 (SHA256)	TLS 1.0	TLS_RSA_WITH_AES_128_CBC_SHA No FS
OpenSSL 1.0.1l R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
OpenSSL 1.0.2s R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
OpenSSL 1.1.0k R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
OpenSSL 1.1.1c R	-	TLS 1.3	TLS_AES_256_GCM_SHA384 ECDH x25519 FS
Safari 5.1.9 / OS X 10.6.8	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 6 / iOS 6.0.1	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 6.0.4 / OS X 10.8.4 R	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 7 / iOS 7.1 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 7 / OS X 10.9 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 8 / iOS 8.4 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS

Handshake Simulation

Safari 8 / OS X 10.10 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
Safari 9 / iOS 9 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Safari 9 / OS X 10.11 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Safari 10 / iOS 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Safari 10 / OS X 10.12 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	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	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Yahoo Slurp Jan 2015	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
YandexBot Jan 2015	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS

Not simulated clients (Protocol mismatch)

[IE 6 / XP](#) No FS¹ No SNI² Protocol mismatch (not simulated)

- (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

DROWN	No, server keys and hostname not seen elsewhere with SSLv2 (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
Secure Renegotiation	Supported
Secure Client-Initiated Renegotiation	No
Insecure Client-Initiated Renegotiation	No
BEAST attack	Not mitigated server-side (more info) TLS 1.0: 0xc009
POODLE (SSLv3)	No, SSL 3 not supported (more info)
POODLE (TLS)	No (more info)
Zombie POODLE	No (more info) TLS 1.2: 0xc009
GOLDENDOODLE	No (more info) TLS 1.2: 0xc009
OpenSSL 0-Length	No (more info) TLS 1.2: 0xc009
Sleeping POODLE	No (more info) TLS 1.2: 0xc009
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	With modern browsers (more info)
ALPN	Yes h2 http/1.1
NPN	Yes grpc-exp h2 http/1.1
Session resumption (caching)	Yes
Session resumption (tickets)	Yes
OCSP stapling	No
Strict Transport Security (HSTS)	No
HSTS Preloading	Not in: Chrome Edge Firefox IE
Public Key Pinning (HPKP)	No (more info)

Protocol Details

Public Key Pinning Report-Only

No

Public Key Pinning (Static)

Yes

includeSubDomains: false
report-uri: http://clients3.google.com/cert_upload_json
pin-sha256: IPMBDAjLVSGntGO3WP53X/zilCVndez5YJ2+vJvhJsA=
pin-sha256: YZPgTZ+woNCCCIW3LH2CxQeLzB/1m42QcCTBSdgayjs=
pin-sha256: hxqRiPTu1bMS/0DITB1SSu0vd4u/8l8TjPgfaAp63Gc=
pin-sha256: Vfd95BwDeSQo+NUYxVEEllvkOIWY2SalKK1lPhzOx78=
pin-sha256: QXnt2YHvdHR3tYmQlr0Paosp6t/nggsEGD4QJZ3Q0g=
pin-sha256: mEfIZT5enoR1FuXLgYYGqnVEoZvmf9c2bVBpiOjYQ0c=
pin-sha256: iie1VXtL7HzAMF+/PVPR9xzT80kQxdZeJ+zduCB3uj0=
pin-sha256: hxrRCWbljB5FGRZv++qAms7uX69qFC45aBhVpeGclco= (Forbidden)
pin-sha256: SG/sBoMjc9lgJ8+dGglHyTLvz7wyVBio7IMoDanPuRk= (Forbidden)
pin-sha256: LvRiGEjRqfzurezaWuj8Wie2gyHMrW5Q06LspMnox7A= (Forbidden)

Long handshake intolerance

No

TLS extension intolerance

No

TLS version intolerance

No

Incorrect SNI alerts

No

Uses common DH primes

No, DHE suites not supported

DH public server param (Ys) reuse

No, DHE suites not supported

ECDH public server param reuse

No

Supported Named Groups

x25519, secp256r1 (server preferred order)

SSL 2 handshake compatibility

Yes

0-RTT enabled

No



HTTP Requests



1 <https://google.com/> (HTTP/1.1 301 Moved Permanently)



Miscellaneous

Test date	Fri, 22 Oct 2021 15:47:00 UTC
Test duration	104.907 seconds
HTTP status code	301
HTTP forwarding	https://www.google.com
HTTP server signature	gws
Server hostname	sfo03s08-in-f46.1e100.net