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SSL Report: [www.defense.gov](#) (23.218.129.201)

Assessed on: Mon, 19 Feb 2018 16:13:21 UTC | [Hide](#) | [Clear cache](#)

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Summary

Overall Rating



Certificate

Protocol Support

Key Exchange

Cipher Strength

0

20

40

60

80

100

100


95

90

90

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

Certificate #1: RSA 2048 bits (SHA256withRSA)



Server Key and Certificate #1

Subject

Common names

Alternative names

Serial Number

Valid from

Valid until

Key

Weak key (Debian)

Issuer

Signature algorithm

Extended Validation

Certificate Transparency

OCSP Must Staple

Revocation information

Revocation status

DNS CAA

Trusted

www.defense.gov

Fingerprint SHA256: acb12fa9a3f413afefa7f027349ae1582235dbf62fde052a338903026fb728bc
Pin SHA256: TGJn/8zltqxXHFb2+TWwPQS1bDBEHYlyWV9D3fdjYlg=

www.defense.gov

prhome.defense.gov vvac.defense.gov jnlwp.defense.gov static.defense.gov helpdesk.defense.gov recovery.-
defense.gov valor.defense.gov la.defense.gov 2017dodtransition.defense.gov policy.defense.gov media.defen-
se.gov stats.defense.gov history.defense.gov 508controlltwo.defense.gov dbb.defense.gov confluence.defen-
se.gov data.defense.gov jsc.defense.gov open.defense.gov irt.defense.gov 508controlone.defense.gov exec-
sec.defense.gov afd.defense.gov militarypay.defense.gov atsdio.defense.gov dacowits.defense.gov business.-
defense.gov ctip.defense.gov archive.defense.gov jamrs.defense.gov dodcio.defense.gov ra.defense.gov dp-
clo.defense.gov armedforcesports.defense.gov energy.defense.gov dodsioo.defense.gov dpclld.defense.gov
dcmo.defense.gov diversity.defense.gov comptroller.defense.gov rfpb.defense.gov defense.gov actuary.defen-
se.gov rwtf.defense.gov www.defense.gov

51e2701171871b3499362cfc0ce71639

Mon, 05 Jun 2017 00:00:00 UTC

Sat, 28 Apr 2018 23:59:59 UTC (expires in 2 months and 9 days)

RSA 2048 bits (e 65537)

No

GeoTrust SSL CA - G3
AIA: http://gn.symcb.com/gn.crt

SHA256withRSA

No

Yes (certificate)


No

CRL, OCSP
CRL: http://gn.symcb.com/gn.crl
OCSP: http://gn.symcd.com

Good (not revoked)

No (more info)

Yes
Mozilla Apple Android Java Windows



Additional Certificates (if supplied)

Certificates provided2 (3524 bytes)

https://www.ssllabs.com/ssltest/analyze.html?d=www.defense.gov&s=23.218.129.201

1/5

Additional Certificates (if supplied)

Chain issues	None
#2	
Subject	GeoTrust SSL CA - G3 Fingerprint SHA256: 074541ecdff88ed992ed5ade3ecdddef27a26ba1b44480a195c0a8dadae2521d8e Pin SHA256: PbNCVpVasMJxps3lqFflTRKkVnRCLrTIZVc5kspqlkw=
Valid until	Fri, 20 May 2022 21:36:50 UTC (expires in 4 years and 3 months)
Key	RSA 2048 bits (e 65537)
Issuer	GeoTrust Global CA
Signature algorithm	SHA256withRSA

Certification Paths

Click here to expand

Configuration

Protocols

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

For TLS 1.3 tests, we currently support draft version 18.

Cipher Suites

# TLS 1.2 (suites in server-preferred order)			
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp256r1 (eq. 3072 bits RSA) FS		256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH secp256r1 (eq. 3072 bits RSA) FS		128
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca8)	ECDH secp256r1 (eq. 3072 bits RSA) FS		256 ^P
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH secp256r1 (eq. 3072 bits RSA) FS		256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH secp256r1 (eq. 3072 bits RSA) FS		128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp256r1 (eq. 3072 bits RSA) FS		256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH secp256r1 (eq. 3072 bits RSA) FS		128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d)	WEAK		256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)	WEAK		128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d)	WEAK		256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c)	WEAK		128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)	WEAK		256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)	WEAK		128

# 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_256_CBC_SHA	ECDH secp256r1 FS
Android 4.1.1		RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1 FS
Android 4.2.2		RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1 FS
Android 4.3		RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1 FS
Android 4.4.2		RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS

Handshake Simulation

Android 5.0.0	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Android 6.0	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Android 7.0	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
Baidu Jan 2015	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
BingPreview Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Chrome 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Chrome 57 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	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 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Firefox 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Firefox 53 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Googlebot Feb 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
IE 7 / Vista	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
IE 8 / XP No FS ¹ No SNI ²	Server sent fatal alert: handshake_failure				
IE 8-10 / Win 7 R	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
IE 11 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
IE 11 / Win 8.1 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
IE 10 / Win Phone 8.0	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
IE 11 / Win Phone 8.1 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
IE 11 / Win Phone 8.1 Update R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
IE 11 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Edge 13 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Edge 13 / Win Phone 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	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	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
Java 8u31	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
OpenSSL 0.9.8v	RSA 2048 (SHA256)	TLS 1.0	TLS_RSA_WITH_AES_256_CBC_SHA	No FS	
OpenSSL 1.0.1i R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
OpenSSL 1.0.2e R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 5.1.9 / OS X 10.6.8	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 6 / iOS 6.0.1	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 6.0.4 / OS X 10.8.4 R	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 7 / iOS 7.1 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 7 / OS X 10.9 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 8 / iOS 8.4 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 8 / OS X 10.10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 9 / OS X 10.11 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / iOS 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / OS X 10.12 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Apple ATS 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	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 secp256r1	FS
YandexBot Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS

Not simulated clients (Protocol mismatch)

[IE 6 / XP](#) No FS ¹ No SNI ² 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

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	Yes	
Insecure Client-Initiated Renegotiation	No	
BEAST attack	Not mitigated server-side (more info) TLS 1.0: 0xc014	
POODLE (SSLv3)	No, SSL 3 not supported (more info)	
POODLE (TLS)	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	With modern browsers (more info)	
ALPN	Yes http/1.1	
NPN	Yes http/1.1 http/1.0	
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)	
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, DHE suites not supported	
DH public server param (Ys) reuse	No, DHE suites not supported	
ECDH public server param reuse	No	
Supported Named Groups	secp256r1, x25519 (server preferred order)	
SSL 2 handshake compatibility	Yes	



HTTP Requests



- 1 https://www.defense.gov/ (HTTP/1.1 200 OK)



Miscellaneous

Test date	Mon, 19 Feb 2018 16:07:56 UTC
Test duration	108.510 seconds
HTTP status code	200
HTTP server signature	
Server hostname	a23-218-129-201.deploy.static.akamaitechnologies.com

