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## SSL Report: [api.tplinkra.com](#) (44.195.227.47)

### Summary

#### Overall Rating

# A-

#### Certificate

#### Protocol Support

#### Key Exchange

#### Cipher Strength

0 20 40 60 80 100

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

There is no support for secure renegotiation. Grade reduced to A-. [MORE INFO »](#)

### Certificate #1: RSA 2048 bits (SHA256withRSA)



#### Server Key and Certificate #1

##### Subject

\*.tplinkra.com

Fingerprint SHA256: 2e44a9bc3b7e04f99a958d4c0e50f70a8cdb553bf2866b8c2ef4802f3cbdc08b

Pin SHA256: P7zmM8ww7cnOoQ4cS9rmOupjskBgBdvsyBoiOgTQYQ=-

##### Common names

\*.tplinkra.com

##### Alternative names

\*.tplinkra.com tplinkra.com

##### Serial Number

6be891ed6d0483ea

##### Valid from

Mon, 25 Mar 2024 02:31:30 UTC

##### Valid until

Sat, 26 Apr 2025 02:31:30 UTC (expires in 10 months and 9 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/gdig2s1-19154.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 (5101 bytes)

##### Chain issues

Contains anchor

##### #2

##### Subject

Go Daddy Secure Certificate Authority - G2

Fingerprint SHA256: 973a41276fd01e027a2aad49e34c37846d3e976ff6a620b6712e33832041aa6

Pin SHA256: 8Rw90Ej3Tt8RRkrG+WyDS9n7lS03bk5bjPjUXPtay8=

##### Valid until

Sat, 03 May 2031 07:00:00 UTC (expires in 6 years and 10 months)

##### Key

RSA 2048 bits (e 65537)

##### Issuer

Go Daddy Root Certificate Authority - G2

##### Signature algorithm

SHA256withRSA

Additional Certificates (if supplied)

#3

<b>Subject</b>	Go Daddy Root Certificate Authority - G2 Fingerprint SHA256: 3a2f8e92891e57fe05d57087f48e730f17e5a5f53ef403d618e5b74d7a7e6ecb Pin SHA256: Ko8tivDrEjiY90yGasP6ZpBU4jwXvHqVvQIOGS3GNdA=
<b>Valid until</b>	Fri, 30 May 2031 07:00:00 UTC (expires in 6 years and 11 months)
<b>Key</b>	RSA 2048 bits (e 65537)
<b>Issuer</b>	The Go Daddy Group, Inc. / Go Daddy Class 2 Certification Authority
<b>Signature algorithm</b>	SHA256withRSA

#4

<b>Subject</b>	The Go Daddy Group, Inc. / Go Daddy Class 2 Certification Authority <span>In trust store</span> Fingerprint SHA256: c3846bf24b9e93ca64274c0ec67c1ecc5e024ffcad2d74019350e81fe546ae4 Pin SHA256: VjLZe/p3W/PJnd6l8JVNBCGQBZynFLdZSTlqcO0Sj8=
<b>Valid until</b>	Thu, 29 Jun 2034 17:06:20 UTC (expires in 10 years)
<b>Key</b>	RSA 2048 bits (e 3)
<b>Issuer</b>	The Go Daddy Group, Inc. / Go Daddy Class 2 Certification Authority <span>Self-signed</span>
<b>Signature algorithm</b>	SHA1withRSA <span>Weak, but no impact on root certificate</span>



Certification Paths



Click here to expand

Configuration



Protocols

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



Cipher Suites

# TLS 1.2 (suites in server-preferred order)



TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH secp256r1 (eq. 3072 bits RSA) FS	128
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH secp256r1 (eq. 3072 bits RSA) FS <b>WEAK</b>	128
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH secp256r1 (eq. 3072 bits RSA) FS <b>WEAK</b>	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)	<b>WEAK</b>	128
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c)	<b>WEAK</b>	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d)	<b>WEAK</b>	256
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d)	<b>WEAK</b>	256



Handshake Simulation

<a href="#">Android 4.4.2</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Android 5.0.0</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Android 6.0</a>	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Android 7.0</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Android 8.0</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Android 8.1</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Android 9.0</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">BingPreview Jan 2015</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Chrome 49 / XP SP3</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Chrome 69 / Win 7</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Chrome 70 / Win 10</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Chrome 80 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
<a href="#">Firefox 31.3.0 ESR / Win 7</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS

Handshake Simulation

<a href="#">Firefox 47 / Win 7</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Firefox 49 / XP SP3</a>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Firefox 62 / Win 7</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Firefox 73 / Win 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Googlebot Feb 2018</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">IE 11 / Win 7</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">IE 11 / Win 8.1</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; http/1.1</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">IE 11 / Win Phone 8.1</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; http/1.1</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">IE 11 / Win Phone 8.1 Update</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; http/1.1</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">IE 11 / Win 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Edge 15 / Win 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Edge 16 / Win 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Edge 18 / Win 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Edge 13 / Win Phone 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Java 8u161</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Java 11.0.3</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Java 12.0.1</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 1.0.1i</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 1.0.2s</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 1.1.0k</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 1.1.1c</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 6 / iOS 6.0.1</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 7 / iOS 7.1</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 7 / OS X 10.9</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 8 / iOS 8.4</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 8 / OS X 10.10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 9 / iOS 9</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 9 / OS X 10.11</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 10 / iOS 10</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 10 / OS X 10.12</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 12.1.2 / MacOS 10.14.6 Beta</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 12.1.1 / iOS 12.3.1</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Apple ATS 9 / iOS 9</a> <span>R</span>	RSA 2048 (SHA256)	<span>TLS 1.2 &gt; h2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Yahoo Slurp Jan 2015</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">YandexBot Jan 2015</a>	RSA 2048 (SHA256)	<span>TLS 1.2</span>	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS

# Not simulated clients (Protocol mismatch)



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- (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

Renegotiation	Unknown
BEAST attack	Mitigated server-side ( <a href="#">more info</a> )
POODLE (SSLv3)	No, SSL 3 not supported ( <a href="#">more info</a> )
POODLE (TLS)	No ( <a href="#">more info</a> )
Zombie POODLE	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
GOLDENDOODLE	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
OpenSSL 0-Length	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
Sleeping POODLE	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
Downgrade attack prevention	Unknown (requires support for at least two protocols, excl. SSL2)
SSL/TLS compression	No
RC4	No
Heartbeat (extension)	No
Heartbleed (vulnerability)	No ( <a href="#">more info</a> )

Protocol Details

Ticketbleed (vulnerability)	No ( <a href="#">more info</a> )
OpenSSL CCS vuln. (CVE-2014-0224)	Unknown ( <a href="#">more info</a> )
OpenSSL Padding Oracle vuln. (CVE-2016-2107)	No ( <a href="#">more info</a> )
ROBOT (vulnerability)	No ( <a href="#">more info</a> )
Forward Secrecy	Yes (with most browsers) ROBUST ( <a href="#">more info</a> )
ALPN	Yes h2 http/1.1
NPN	Yes h2 http/1.1
Session resumption (caching)	No (IDs assigned but not accepted)
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 ( <a href="#">more info</a> )
Public Key Pinning Report-Only	No
Public Key Pinning (Static)	No ( <a href="#">more info</a> )
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	-
SSL 2 handshake compatibility	Yes



HTTP Requests



1 https://api.tplinkra.com/ (HTTP/1.1 200 OK)



Miscellaneous

Test date	Sun, 16 Jun 2024 17:28:11 UTC
Test duration	117.351 seconds
HTTP status code	200
HTTP server signature	Jetty(tws)
Server hostname	ec2-44-195-227-47.compute-1.amazonaws.com

SSL Report v2.3.0