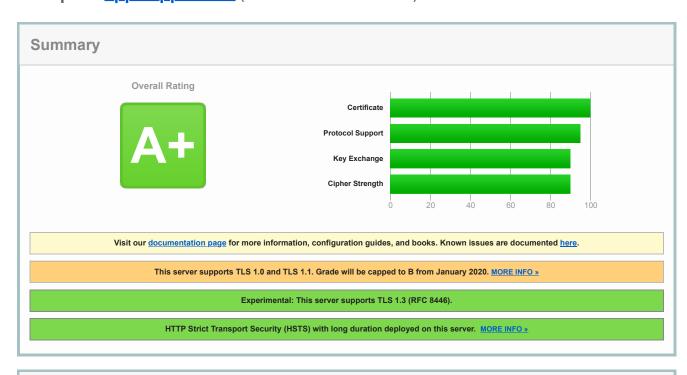
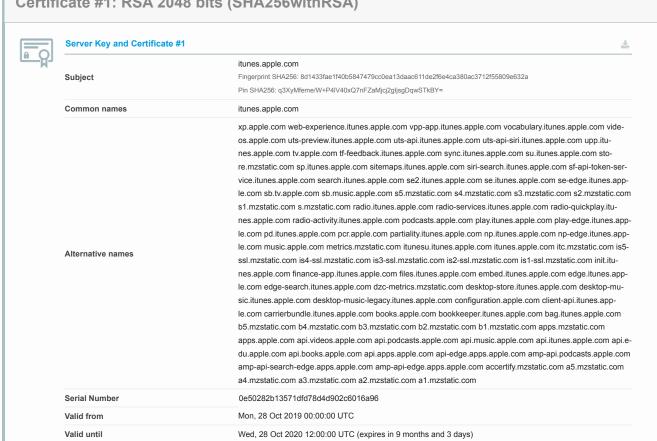
You are here: Home > Projects > SSL Server Test > apps.apple.com > 2600:1406:b000:18c:0:0:0:2a1

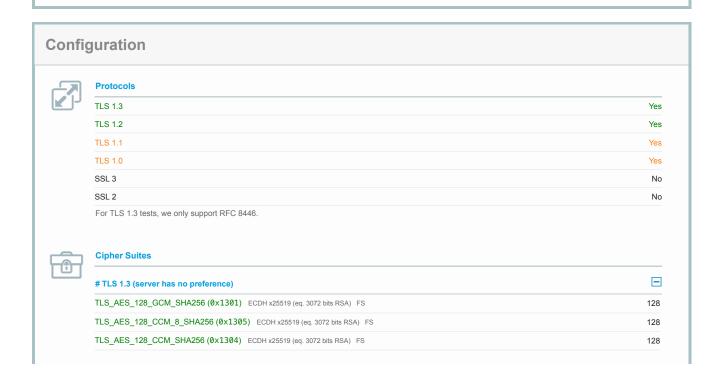
SSL Report: <u>apps.apple.com</u> (2600:1406:b000:18c:0:0:0:2a1)



Certificate #1: RSA 2048 bits (SHA256withRSA)



| ey | RSA 2048 bits (e 65537) | |
|--|--|--------------|
| Veak key (Debian) | No | |
| ssuer | DigiCert SHA2 Extended Validation Server CA | |
| | AIA: http://cacerts.digicert.com/DigiCertSHA2ExtendedValidationServerCA.crt | |
| Signature algorithm | SHA256withRSA | |
| Extended Validation | Yes | |
| Certificate Transparency | Yes (certificate) | |
| OCSP Must Staple | No | |
| | CRL, OCSP | |
| Revocation information | CRL: http://crl3.digicert.com/sha2-ev-server-g2.crl | |
| | OCSP: http://ocsp.digicert.com | |
| Revocation status | Good (not revoked) | |
| ONS CAA | No (more info) | |
| | | |
| rusted Additional Certificates (if supplie | Yes Mozilla Apple Android Java Windows | * |
| Additional Certificates (if supplic | Mozilla Apple Android Java Windows | ± |
| Additional Certificates (if supplic | Mozilla Apple Android Java Windows ed) 2 (5104 bytes) | * |
| Additional Certificates (if supplic | Mozilla Apple Android Java Windows | å |
| Additional Certificates (if supplic | Mozilla Apple Android Java Windows ed) 2 (5104 bytes) | å |
| Additional Certificates (if supplice Certificates provided Chain issues | Mozilla Apple Android Java Windows ed) 2 (5104 bytes) | * |
| Additional Certificates (if supplice Certificates provided Chain issues | Mozilla Apple Android Java Windows ed) 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a | |
| Additional Certificates (if supplice Certificates provided Chain issues | Mozilla Apple Android Java Windows ed) 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA | ± |
| Additional Certificates (if supplice Certificates provided Chain issues | Mozilla Apple Android Java Windows ed) 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a | *** |
| Additional Certificates (if supplice Certificates provided Chain issues | Mozilla Apple Android Java Windows 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a Pin SHA256: RRM1dGqnDFsCJXBTHky16vi1obOlCgFFn/yOhl/y+ho= | 3 000 |
| Additional Certificates (if supplied Certificates provided Chain issues #2 Subject | ed) 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a Pin SHA256: RRM1dGqnDFsCJXBTHky16vi1ob0lCgFFn/yOhl/y+ho= Sun, 22 Oct 2028 12:00:00 UTC (expires in 8 years and 8 months) | ± |
| Additional Certificates (if supplied Certificates provided Chain issues Subject Valid until Key | Mozilla Apple Android Java Windows 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a Pin SHA256: RRM1dGqnDFsCJXBTHky16v11obOlCgFFn/yOhl/y+ho= Sun, 22 Oct 2028 12:00:00 UTC (expires in 8 years and 8 months) RSA 2048 bits (e 65537) | <u></u> |
| Additional Certificates (if supplied Certificates provided Chain issues #2 Subject /alid until Key ssuer | ed) 2 (5104 bytes) None DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a Pin SHA256: RRM1dGqnDFsCJXBTHky16vi1obOlCgFFn/yOhl/y+ho= Sun, 22 Oct 2028 12:00:00 UTC (expires in 8 years and 8 months) RSA 2048 bits (e 65537) DigiCert High Assurance EV Root CA | *** |



Click here to expand

| 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 ^P |
| | 230 |
| #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 (Øxcca8) 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 WEAK | 256 |
| TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK | 256 |
| TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK | 128 |
| TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK | 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_128_CBC_SHA(0x2f) WEAK | 128 |
| 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_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 |
| 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 > h2 | TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 ECDH secp256r1 FS |
| Android 8.0 | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 ECDH secp256r1 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 | 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 > h2 | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS |
| Chrome 69 / Win 7 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Chrome 70 / Win 10 | = | TLS 1.3 | TLS_AES_256_GCM_SHA384 ECDH x25519 FS |
| Chrome 75 / Win 10 R | - | TLS 1.3 | TLS_AES_256_GCM_SHA384 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 > h2 | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS |
| Firefox 49 / XP SP3 | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Firefox 62 / Win 7 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Firefox 67 / Win 10 R | - | TLS 1.3 | TLS_AES_256_GCM_SHA384 ECDH x25519 FS |
| Googlebot Feb 2018 | RSA 2048 (SHA256) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 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 | RSA 2048 (SHA256) | TLS 1.0 | TLS_RSA_WITH_3DES_EDE_CBC_SHA |
| <u>IE 8-10 / Win 7</u> R | RSA 2048 (SHA256) | TLS 1.0 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS |
| <u>IE 11 / Win 7</u> R | RSA 2048 (SHA256) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS |
| | | | |

| <u>IE 11 / Win 8.1</u> 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_256_CBC_SHA 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 |
| <u>IE 11 / Win 10</u> R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Edge 15 / Win 10 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Edge 16 / Win 10 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Edge 18 / Win 10 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Edge 13 / Win Phone 10 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | 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 |
| <u>Java 7u25</u> | RSA 2048 (SHA256) | TLS 1.0 | TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS |
| <u>Java 8u161</u> | 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_256_GCM_SHA384 ECDH secp256r1 FS |
| Java 12.0.1 | - | TLS 1.3 | TLS_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| OpenSSL 0.9.8y | RSA 2048 (SHA256) | TLS 1.0 | TLS_RSA_WITH_AES_128_CBC_SHA No FS |
| OpenSSL 1.0.1I R | RSA 2048 (SHA256) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 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 secp256r1 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_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 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Safari 9 / OS X 10.11 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Safari 10 / iOS 10 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| Safari 10 / OS X 10.12 R | RSA 2048 (SHA256) | TLS 1.2 > h2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS |
| <u>Safari 12.1.2 / MacOS 10.14.6</u> <u>Beta</u> 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 > h2 | 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

| DROWN | No, server keys and hostname not seen elsewhere with SSLv2 | | |
|---------------------------------------|---|--|--|
| | (1) For a better understanding of this test, please read this longer explanation | | |
| DROWN | (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: 0xc014 |
| POODLE (SSLv3) | No, SSL 3 not supported (more info) |
| POODLE (TLS) | No (more info) |
| Zombie POODLE | No (more info) TLS 1.2: 0xc014 |
| GOLDENDOODLE | No (more info) TLS 1.2: 0xc014 |
| OpenSSL 0-Length | No (more info) TLS 1.2: 0xc014 |
| Sleeping POODLE | No (more info) TLS 1.2: 0xc014 |
| | |
| Downgrade attack prevention | Yes, TLS_FALLBACK_SCSV supported (more info) |
| SSL/TLS compression RC4 | No No |
| | No |
| Heartbeat (extension) | No |
| Heartbleed (vulnerability) | No (more info) |
| Ticketbleed (vulnerability) | No (more info) |
| OpenSSL CCS vuln. (CVE-2014-0224) | No (<u>more info</u>) |
| 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 h2-14 http/1.1 |
| NPN | Yes http/1.1 http/1.0 |
| Session resumption (caching) | No (IDs assigned but not accepted) |
| Session resumption (tickets) | Yes |
| OCSP stapling | Yes |
| 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, 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 |
| A PTT available | No |
| 0-RTT enabled | NO |



HTTP Requests



1 https://apps.apple.com/ (HTTP/1.1 302 Moved Temporarily)



Miscellaneous

| Test date | Fri, 24 Jan 2020 17:07:18 UTC |
|-----------------------|---|
| Test duration | 107.734 seconds |
| HTTP status code | 302 |
| HTTP forwarding | https://www.apple.com |
| HTTP server signature | daiquiri/3.0.0 |
| Server hostname | g2600-1406-b000-018c-0000-0000-0000-02a1.deploy.static.akamaitechnologies.com |

| SSL | Report v2.0.7 | |
|-----|---|------------------|
| | | |
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