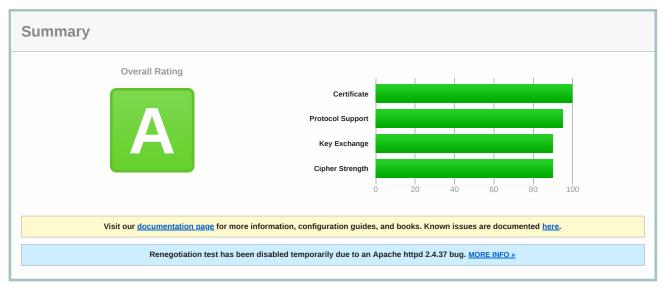


You are here: Home > Projects > SSL Server Test > www.redhat.com > 23.56.120.155

# SSL Report: www.redhat.com (23.56.120.155)



#### Certificate #1: RSA 2048 bits (SHA256withRSA) Server Key and Certificate #1 Subject Fingerprint SHA256: a6108fa62f7bc1ef3f041de71c137a9682c9daa942ab11d3c5bbf9d94b6d20e8 Pin SHA256: F3mjDilfaScppcNA9HHR40s11eEgwBHuAouqpZceo6c= Common names www.redhat.com Alternative names www.redhat.com redhat.com Serial Number 08a1d951069f1b58af527a4dde7254cf Valid from Wed, 21 Mar 2018 00:00:00 UTC Valid until Fri, 20 Mar 2020 12:00:00 UTC (expires in 1 year) Key RSA 2048 bits (e 65537) Weak key (Debian) No DigiCert SHA2 Extended Validation Server CA Issuer AIA: http://cacerts.digicert.com/DigiCertSHA2ExtendedValidationServerCA.crt Signature algorithm SHA256withRSA **Extended Validation** Yes Yes (certificate) Certificate Transparency **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) **DNS CAA** No (more info) Yes Trusted Mozilla Apple Android Java Windows **Additional Certificates (if supplied)** Certificates provided 2 (3084 bytes) Chain issues None

Subject	DigiCert SHA2 Extended Validation Server CA Fingerprint SHA256: 403e062a2653059113285baf80a0d4ae422c848c9f78fad01fc94bc5b87fef1a Pin SHA256: RRM1dGqnDFsCJXBTHky16v110bOlCgFFn/yOhl/y+ho=
Valid until	Sun, 22 Oct 2028 12:00:00 UTC (expires in 9 years and 7 months)
Key	RSA 2048 bits (e 65537)
Issuer	DigiCert High Assurance EV Root 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 only support RFC 8446.	



#### **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 <sup>P</sup>
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_RSA_WITH_3DES_EDE_CBC_SHA (0xa) WEAK	112
# TLS 1.1 (suites in server-preferred order)	+





## Handshake Simulation

# TLS 1.0 (suites in server-preferred order)

Android 2.3.7 No SNI <sup>2</sup>	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 > 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 69 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Chrome 70 / Win 10	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 62 / 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 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 <sup>1</sup> No SNI <sup>2</sup>	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_128_CBC_SHA256 ECDH secp256r1 FS
IE 11 / Win Phone 8.1 Update F	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 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Edge 15 / 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 <sup>2</sup>	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
Java 8u161	RSA 2048 (SHA256)	TLS 1.2	TLS ECDHE RSA WITH AES 256 GCM SHA384 ECDH secp256r1 FS
OpenSSL 0.9.8y	(		
	RSA 2048 (SHA256)	TLS 1.0	TLS_RSA_WITH_AES_256_CBC_SHA No FS
OpenSSL 1.0.1I R		TLS 1.0 TLS 1.2	TLS_RSA_WITH_AES_256_CBC_SHA No FS TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.11 R OpenSSL 1.0.2e R	RSA 2048 (SHA256)		
	RSA 2048 (SHA256) RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
<u>OpenSSL 1.0.2e</u> R	RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256)	TLS 1.2 TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R Safari 5.1.9 / OS X 10.6.8	RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256)	TLS 1.2 TLS 1.2 TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS
OpenSSL 1.0.2e R Safari 5.1.9 / OS X 10.6.8 Safari 6 / iOS 6.0.1	RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R Safari 5.1.9 / OS X 10.6.8 Safari 6 / iOS 6.0.1 Safari 6.0.4 / OS X 10.8.4 R	RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R Safari 5.1.9 / OS X 10.6.8 Safari 6 / iOS 6.0.1 Safari 6.0.4 / OS X 10.8.4 R Safari 7 / iOS 7.1 R	RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256) RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R	RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R  Safari 8 / iOS 8.4 R	RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.0 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.2 TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R  Safari 8 / iOS 8.4 R  Safari 8 / iOS X 10.10 R	RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.2 TLS 1.2 TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R  Safari 8 / iOS 8.4 R  Safari 8 / iOS X 10.10 R  Safari 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.0 TLS 1.2 TLS 1.2 TLS 1.2 TLS 1.2 TLS 1.2 TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R  Safari 8 / iOS 8.4 R  Safari 8 / OS X 10.10 R  Safari 9 / iOS 9 R  Safari 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2  TLS 1.0  TLS 1.2  TLS 1.0  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2 http/1.1  TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R  Safari 8 / iOS 8.4 R  Safari 8 / iOS X 10.10 R  Safari 9 / iOS 9 R  Safari 9 / iOS X 10.11 R  Safari 10 / iOS 10 R	RSA 2048 (SHA256)	TLS 1.2  TLS 1.0  TLS 1.2  TLS 1.0  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2 http/1.1  TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / OS X 10.9 R  Safari 8 / iOS 8.4 R  Safari 8 / iOS X 10.10 R  Safari 9 / iOS 9 R  Safari 10 / iOS 10 R  Safari 10 / iOS X 10.12 R	RSA 2048 (SHA256)	TLS 1.2  TLS 1.0  TLS 1.2  TLS 1.0  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2 http/1.1  TLS 1.2 > http/1.1  TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.0.2e R  Safari 5.1.9 / OS X 10.6.8  Safari 6 / iOS 6.0.1  Safari 6.0.4 / OS X 10.8.4 R  Safari 7 / iOS 7.1 R  Safari 7 / iOS X 10.9 R  Safari 8 / iOS 8.4 R  Safari 8 / iOS X 10.10 R  Safari 9 / iOS 9 R  Safari 9 / iOS 9 R  Safari 10 / iOS 10 R  Safari 10 / iOS 10 R  Safari 10 / iOS 10 R  Apple ATS 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2  TLS 1.0  TLS 1.0  TLS 1.0  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2  TLS 1.2 http/1.1  TLS 1.2 > http/1.1  TLS 1.2 > http/1.1  TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS  TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS

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#### # 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**

Protocor 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		
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	Yes		
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**

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- 1 https://www.redhat.com/ (HTTP/1.1 301 Moved Permanently)
- 2 https://www.redhat.com/en (HTTP/1.1 200 OK)



### Miscellaneous

Test date	Sat, 23 Feb 2019 19:16:39 UTC
Test duration	81.252 seconds
HTTP status code	200
HTTP server signature	Apache
Server hostname	a23-56-120-155.deploy.static.akamaitechnologies.com

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