

Home Projects Qualys Free Trial Contact

You are here: Home > Projects > SSL Server Test > mishmash.colab.duke.edu

# SSL Report: mishmash.colab.duke.edu (67.159.77.222)

Assessed on: Sat, 01 Mar 2025 18:24:37 UTC | Hide | Clear cache

**Scan Another** »

# Overall Rating 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.

# Certificate #1: RSA 2048 bits (SHA384withRSA)



## Server Key and Certificate #1

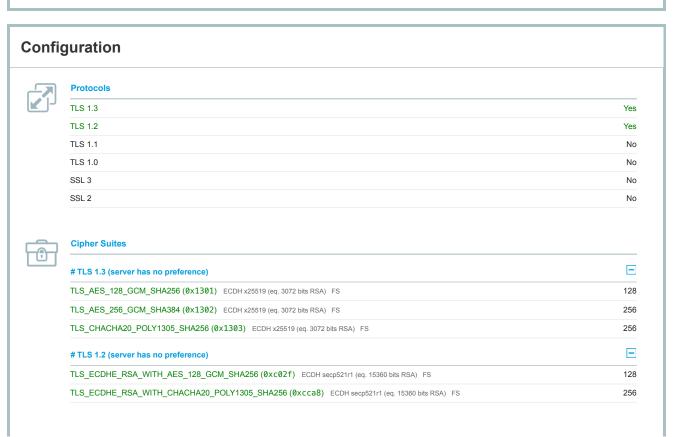
Subject	mishmash.colab.duke.edu Fingerprint SHA256: d16501b5c57f558dcd3d7f1d8e83aa21eb23cd0b643b30ce93d403b24f1e238a		
	Pin SHA256: sWXcC+R1qimIPEFD5WzhOp/U9UQ3AA1NJFOdTzXyKKU=		
Common names	mishmash.colab.duke.edu		
Alternative names	mishmash.colab.duke.edu		
Serial Number	009f769305db1f08f13108d6dff8d0ad88		
Valid from	Mon, 03 Feb 2025 00:00:00 UTC		
Valid until	Sun, 04 May 2025 23:59:59 UTC (expires in 2 months and 3 days)		
Key	RSA 2048 bits (e 65537)		
Weak key (Debian)	No		
Issuer	InCommon RSA Server CA 2		
	AIA: http://crt.sectigo.com/InCommonRSAServerCA2.crt		
Signature algorithm	SHA384withRSA		
Extended Validation	No		
Certificate Transparency	Yes (certificate)		
OCSP Must Staple	No		
	CRL, OCSP		
Revocation information	CRL: http://crl.sectigo.com/lnCommonRSAServerCA2.crl		
	OCSP: http://ocsp.sectigo.com		
Revocation status	Good (not revoked)		
DNS CAA	No (more info)		
Trusted	Yes		
11 43 64	Mozilla Apple Android Java Windows		



### **Additional Certificates (if supplied)**

Certificates provided	4 (5742 bytes)
Chain issues	Contains anchor

InCommon RSA Server CA 2 Fingerprint SHA256: 87e01cc4dd0c9d92a3dbd49092ff13f9cd387445cdc57e5b984e1b7721b5b029 Pin SHA256: nIUvrOVzCyKOqY+U4sofEeIMk94DtWuMgaesi8NITk=  Mon, 15 Nov 2032 23:59:59 UTC (expires in 7 years and 8 months)  RSA 3072 bits (e 65537)  USERTrust RSA Certification Authority  SHA384withRSA		
Pin SHA256: nIUvrOVzCyKOqY+U4sofEelMk94Dt/WuMgaesi8NITk=  Mon, 15 Nov 2032 23:59:59 UTC (expires in 7 years and 8 months)  RSA 3072 bits (e 65537)  USERTrust RSA Certification Authority		
Mon, 15 Nov 2032 23:59:59 UTC (expires in 7 years and 8 months)  RSA 3072 bits (e 65537)  USERTrust RSA Certification Authority		
RSA 3072 bits (e 65537) USERTrust RSA Certification Authority		
USERTrust RSA Certification Authority		
SHA384withRSA		
USERTrust RSA Certification Authority		
Fingerprint SHA256: 68b9c761219a5b1f0131784474665db61bbdb109e00f05ca9f74244ee5f5f52b		
Pin SHA256: x4QzPSC810K5/cMjb05Qm4k3Bw5zBn4lTdO/nEW/Td4=		
Sun, 31 Dec 2028 23:59:59 UTC (expires in 3 years and 9 months)		
RSA 4096 bits (e 65537)		
AAA Certificate Services		
SHA384withRSA		
AAA Certificate Services In trust store		
Fingerprint SHA256: d7a7a0fb5d7e2731d771e9484ebcdef71d5f0c3e0a2948782bc83ee0ea699ef4		
Pin SHA256: vRU+17BDT2iGsXvOi76E7TQMcTLXAqj0+jGPdW7L1vM=		
Sun, 31 Dec 2028 23:59:59 UTC (expires in 3 years and 9 months)		
RSA 2048 bits (e 65537)		
AAA Certificate Services Self-signed		
SHA1withRSA Weak, but no impact on root certificate		
	Fingerprint SHA256: 68b9c761219a5b1f0131784474665db61bbdb109e00f05ca9f74244ee5f5f52b Pin SHA256: x4QzPSC810K5/cMjb05Qm4k3Bw5zBn4lTdO/nEW/Td4=  Sun, 31 Dec 2028 23:59:59 UTC (expires in 3 years and 9 months)  RSA 4096 bits (e 65537)  AAA Certificate Services  SHA384withRSA   AAA Certificate Services In trust store Fingerprint SHA256: d7a7a0fb5d7e2731d771e9484ebcdef71d5f0c3e0a2948782bc83ee0ea699ef4 Pin SHA256: vRU+17BDT2iGsXvOi76E7TQMcTLXAqj0+jGPdW7L1vM=  Sun, 31 Dec 2028 23:59:59 UTC (expires in 3 years and 9 months)  RSA 2048 bits (e 65537)  AAA Certificate Services Self-signed	



Android 4.4.2	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp521r1 FS		
android 5.0.0	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp521r1 FS		
android 6.0	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Android 7.0	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS		
android 8.0	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_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		
BingPreview Jan 2015	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp521r1 FS		
Chrome 49 / XP SP3	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Chrome 69 / Win 7 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_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	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Firefox 47 / Win 7 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS ECDHE RSA WITH AES 128 GCM SHA256 ECDH secp256r1 FS		
Firefox 49 / XP SP3	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Firefox 62 / Win 7 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256_ECDH x25519_FS		
Firefox 73 / Win 10 R		TLS 1.3	TLS_ECUTIE_RSA_WITT_AES_126_GCW_STA250 ECDH x25519 FS  TLS AES_128_GCM_SHA256 ECDH x25519 FS		
<del></del>	DCA 2040 (CLIACOA)	TLS 1.3			
Googlebot Feb 2018	RSA 2048 (SHA384)		TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS		
E 11 / Win 7 R	Server sent fatal alert: handshake_failure				
E 11 / Win 8.1 R		ert: handshake_failure			
E 11 / Win Phone 8.1 R		ert: handshake_failure			
E 11 / Win Phone 8.1 Update R					
<u>E 11 / Win 10</u> R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
<u>Edge 15 / Win 10</u> R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS		
Edge 16 / Win 10 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS		
Edge 18 / Win 10 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS		
Edge 13 / Win Phone 10 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Java 8u161	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_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 1.0.1I R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp521r1 FS		
OpenSSL 1.0.2s R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
OpenSSL 1.1.0k R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS		
OpenSSL 1.1.1c R	-	TLS 1.3	TLS_AES_256_GCM_SHA384 ECDH x25519 FS		
Safari 6 / iOS 6.0.1	Server sent fatal al	ert: handshake_failure			
Safari 7 / iOS 7.1 R	Server sent fatal al	ert: handshake_failure			
Safari 7 / OS X 10.9 R	Server sent fatal al	ert: handshake_failure			
Safari 8 / iOS 8.4 R	Server sent fatal al	ert: handshake_failure			
Safari 8 / OS X 10.10 R	Server sent fatal al	ert: handshake_failure			
Safari 9 / iOS 9 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
<u>Safari 9 / OS X 10.11</u> R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Safari 10 / iOS 10 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
Safari 10 / OS X 10.12 R	RSA 2048 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_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		
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 (SHA384)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS		
		TLS 1.2 > 112	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp384r1 FS		
Vahoo Slurn Ian 2015					
Yahoo Slurp Jan 2015 YandexBot Jan 2015	RSA 2048 (SHA384) RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp521r1 FS		

## **Handshake Simulation**

Click here to expand

- (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.
- $(3) \ {\hbox{Only first connection attempt simulated. Browsers sometimes retry with a lower protocol version.}$
- (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.



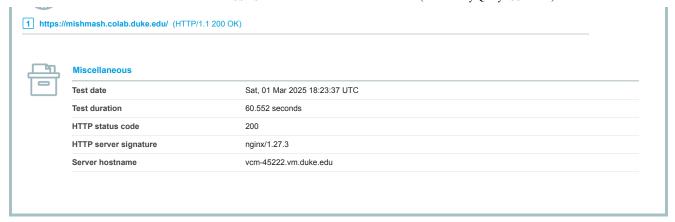
## **Protocol Details**

Protocol Details			
Secure Renegotiation	Supported		
Secure Client-Initiated Renegotiation	No		
Insecure Client-Initiated Renegotiation	No		
BEAST attack	Mitigated server-side (more info)		
POODLE (SSLv3)	No, SSL 3 not supported (more info)		
POODLE (TLS)	No (more info)		
Zombie POODLE	No (more info)		
GOLDENDOODLE	No (more info)		
OpenSSL 0-Length	No (more info)		
Sleeping POODLE	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 ( <u>more info</u> )		
ROBOT (vulnerability)	No (more info)		
Forward Secrecy	Yes (with most browsers) ROBUST (more info)		
ALPN	Yes h2 http/1.1		
NPN	No		
Session resumption (caching)	Yes		
Session resumption (tickets)	No		
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, secp384r1, secp521r1, x25519, x448 (Server has no preference)		
SSL 2 handshake compatibility	No		
0-RTT enabled	No		



HTTP Requests

+



SSL Report v2.3.1

Copyright © 2009-2025 Qualys, Inc. All Rights Reserved. Privacy Policy.

Terms and Conditions

<u>Try Qualys for free!</u> Experience the award-winning <u>Qualys Cloud Platform</u> and the entire collection of <u>Qualys Cloud Apps</u>, including <u>certificate security</u> solutions.