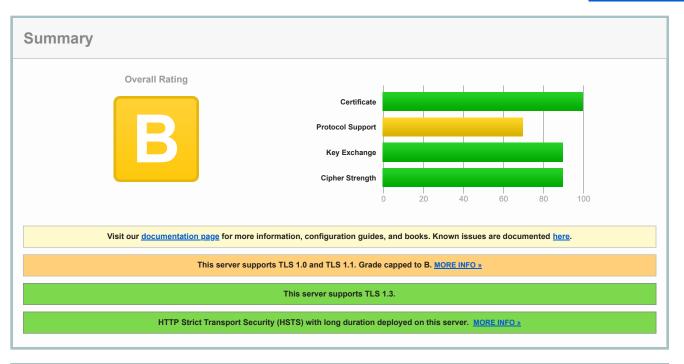


You are here: <u>Home > Projects > SSL Server Test</u> > <u>instagram.com</u> > 31.13.88.174

# SSL Report: instagram.com (31.13.88.174)

Assessed on: Fri, 22 Oct 2021 08:11:33 UTC | HIDDEN | Clear cache

# Scan Another »



# Certificate #1: EC 256 bits (SHA256withRSA)



	Yes	
ONS CAA	No (more info)	
Revocation status	Good (not revoked)	
	OCSP: http://ocsp.digicert.com	
Revocation information	CRL: http://crl3.digicert.com/sha2-ha-server-g6.crl	
	CRL, OCSP	
DCSP Must Staple	No	
Certificate Transparency	Yes (certificate)	
Extended Validation	No	
Signature algorithm	SHA256withRSA	
ssuer	AIA: http://cacerts.digicert.com/DigiCertSHA2HighAssuranceServerCA.crt	
	DigiCert SHA2 High Assurance Server CA	
Veak key (Debian)	No	
Key	EC 256 bits	
/alid until	Fri, 29 Oct 2021 23:59:59 UTC (expires in 7 days, 4 hours)	
/alid from	Sat, 31 Jul 2021 00:00:00 UTC	
Serial Number	024129969ce60a72fb0ccced85f79e37	
Alternative names	*.cdninstagram.com *.igcdn.com *.igsonar.com *.instagram.com cdninstagram.com igcdn.com igsc instagram.com	nar.com
Common names	*.instagram.com	
	Pin SHA256: Cuuzg7VjOu/CWYvpSNMrkamB3t5u/W310m+ClxsJ4u8=	
Subject	Fingerprint SHA256: 9131c9b98927ac1909e8b75e96258600d78ee959c7c71342767980785196a3a7	
	*.instagram.com	



# Additional Certificates (if supplied)



Certificates provided	2 (2842 bytes)
Chain issues	None
#2	
Subject	DigiCert SHA2 High Assurance Server CA Fingerprint SHA256: 19400be5b7a31fb733917700789d2f0a2471c0c9d506c0e504c06c16d7cb17c0 Pin SHA256: k2v657xBsOVe1PQRw0sHsw3bsGT2Vzlqz5K+59sNQws=
Valid until	Sun, 22 Oct 2028 12:00:00 UTC (expires in 6 years and 11 months)
Key	RSA 2048 bits (e 65537)
Issuer	DigiCert High Assurance EV Root CA
Signature algorithm	SHA256withRSA



# **Certification Paths**



Click here to expand

# Certificate #2: RSA 2048 bits (SHA256withRSA)



# Server Key and Certificate #1



Subject	*.instagram.com Fingerprint SHA256: 6f4ac3d2f2aaedd253e0244658880abd2a602d6f749b855b54a4f8a1516633b6 Pin SHA256: IJnm8Nbzh9N50VSrztnZkcpQupTiZ8U0RUrWIKmA2jU=
Common names	*.instagram.com
Alternative names	$\hbox{$^*$.cdninstagram.com $^*$.igcdn.com $^*$.igsonar.com $^*$.instagram.com cdninstagram.com igcdn.com igsonar.com instagram.com }$
Serial Number	052ffc65be9bd65d81da4e843028d205
Valid from	Sat, 31 Jul 2021 00:00:00 UTC
Valid until	Fri, 29 Oct 2021 23:59:59 UTC (expires in 7 days, 4 hours)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	DigiCert SHA2 High Assurance Server CA  AIA: http://cacerts.digicert.com/DigiCertSHA2HighAssuranceServerCA.crt
Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crl3.digicert.com/sha2-ha-server-g6.crl OCSP: http://ocsp.digicert.com
Revocation status	Good (not revoked)
DNS CAA	No (more info)
Trusted	Yes Mozilla Apple Android Java Windows



# Additional Certificates (if supplied)



Certificates provided 2 (304	3 bytes)
Chain issues None	

#### #2

DigiCe	ert :	ЭΠ	A2	. п	ıgı	1 /-	155	ura	an	CE	; 3	e	ve	1 (	,

 Subject
 Fingerprint SHA256: 19400be5b7a31fb733917700789d2f0a2471c0c9d506c0e504c06c16d7cb17c0

 Pin SHA256: k2v657xBsOVe1PQRwOsHsw3bsGT2Vzlqz5K+59sNQws=

Additional Certificates (if supplied)		Ł
Valid until	Sun, 22 Oct 2028 12:00:00 UTC (expires in 6 years and 11 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	Yes
TLS 1.2	Yes
TLS 1.1	Yes
TLS 1.0	Yes
SSL 3	No
SSL 2	No



# **Cipher Suites**

# TLS 1.3 (suites in server-preferred order)	-
TLS_AES_128_GCM_SHA256 (0x1301) ECDH x25519 (eq. 3072 bits RSA) FS	128
TLS_CHACHA20_POLY1305_SHA256 (0x1303) ECDH x25519 (eq. 3072 bits RSA) FS	256 <sup>F</sup>
TLS_AES_256_GCM_SHA384 (0x1302) ECDH x25519 (eq. 3072 bits RSA) FS	256
# TLS 1.2 (suites in server-preferred order)	E
TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 (0xc02b) ECDH secp256r1 (eq. 3072 bits RSA) FS	128
TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 (0xc02c) ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca9) 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_AES_256_GCM_SHA384 (0xc030) ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca8) ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA (0xc009) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK	128
TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA (0xc00a) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c) WEAK	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d) WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35) WEAK	256
TLS_ECDHE_ECDSA_WITH_3DES_EDE_CBC_SHA (0xc008) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK	112
TLS_ECDHE_RSA_WITH_3DES_EDE_CBC_SHA (0xc012) ECDH secp256r1 (eq. 3072 bits RSA) FS WEAK	112
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)	+

Handshake Simulation

Handsnake Simulation			
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	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.1.1	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.2.2	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.3	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Android 4.4.2	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 5.0.0	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 6.0	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 7.0	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 8.0	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_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	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
BingPreview Jan 2015	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 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	Protocol or cipher s 0x7f1c   TLS_AES_12		
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	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 47 / Win 7 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 49 / XP SP3	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
irefox 62 / Win 7 R	Protocol or cipher s  0x7f1c   TLS_AES_12		
Firefox 73 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Googlebot Feb 2018	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
<u> 7 / Vista</u>	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
E 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
E 8-10 / Win 7 R	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
E 11 / Win 7 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
E 11 / Win 8.1 R	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
E 10 / Win Phone 8.0	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
E 11 / Win Phone 8.1 R	EC 256 (SHA256)	TLS 1.2 > http/1.1	TLS ECDHE ECDSA WITH AES 128 GCM SHA256 ECDH secp256r1 FS
E 11 / Win Phone 8.1 Update R		TLS 1.2 > http/1.1	TLS ECDHE ECDSA WITH AES 128 GCM SHA256 ECDH secp256r1 FS
*	EC 256 (SHA256)	TLS 1.2 > http://.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
E 11 / Win 10 R Edge 15 / Win 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_126_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 16 / Win 10 R	20 200 (OI IA200)	120 1.2 - 112	TEO_LODITE_EODOA_WITTI_MEO_TZO_GOIN_GITAZOO ECUM SECPZOOTI FS
-090 107 WIII 10 K	EC 256 (SHA256)	TIS 12 > h2	TIS FORHE FORSA WITH AFS 128 COM SHAPES FORH COMPRESS FOR
dgo 18 / Win 10 B	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R	EC 256 (SHA256) EC 256 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS TLS_RSA_WITH_AES_128_CBC_SHA No FS
Edge 13 / Win Phone 10 R lava 6u45 No SNI <sup>2</sup> lava 7u25	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256) EC 256 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
ava 6u45 No SNI <sup>2</sup> lava 7u25	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0 TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R lava 6u45 No SNI <sup>2</sup> lava 7u25 lava 8u161	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256) EC 256 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0 TLS 1.0 TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS
ava 6u45 No SNI <sup>2</sup> ava 7u25 ava 8u161 ava 11.0.3 ava 12.0.1	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256) EC 256 (SHA256) EC 256 (SHA256) -	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0 TLS 1.0 TLS 1.3 TLS 1.3	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R lava 6u45 No SNI <sup>2</sup> lava 7u25 lava 8u161 lava 11.0.3	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256) EC 256 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0 TLS 1.0 TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R lava 6u45 No SNI 2 lava 7u25 lava 8u161 lava 11.0.3 lava 12.0.1 OpenSSL 0.9.8y	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256) EC 256 (SHA256) EC 256 (SHA256) -	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0 TLS 1.0 TLS 1.3 TLS 1.3	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R  lava 6u45 No SNI <sup>2</sup> lava 7u25  lava 8u161  lava 11.0.3  lava 12.0.1  OpenSSL 0.9.8y  OpenSSL 1.0.11 R	EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256) EC 256 (SHA256) EC 256 (SHA256) RSA 2048 (SHA256)	TLS 1.2 > h2  TLS 1.2 > h2  TLS 1.0  TLS 1.0  TLS 1.0  TLS 1.2  TLS 1.3  TLS 1.3  TLS 1.3	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS
Edge 18 / Win 10 R Edge 13 / Win Phone 10 R Java 6u45 No SNI 2 Java 7u25 Java 8u161 Java 11.0.3 Java 12.0.1 OpenSSL 0.9.8y OpenSSL 1.0.1l R OpenSSL 1.0.2s R OpenSSL 1.1.0k R	EC 256 (SHA256)  EC 256 (SHA256)  RSA 2048 (SHA256)  EC 256 (SHA256)	TLS 1.2 > h2  TLS 1.0  TLS 1.0  TLS 1.0  TLS 1.3  TLS 1.3  TLS 1.3  TLS 1.3	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R lava 6u45 No SNI 2 lava 7u25 lava 8u161 lava 11.0.3 lava 12.0.1 OpenSSL 0.9.8y OpenSSL 1.0.1I R OpenSSL 1.0.2s R	EC 256 (SHA256)  EC 256 (SHA256)  RSA 2048 (SHA256)  EC 256 (SHA256)  -  -  RSA 2048 (SHA256)  EC 256 (SHA256)  EC 256 (SHA256)  EC 256 (SHA256)	TLS 1.2 > h2 TLS 1.2 > h2 TLS 1.0 TLS 1.0 TLS 1.0 TLS 1.3 TLS 1.3 TLS 1.3 TLS 1.3 TLS 1.0 TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Edge 13 / Win Phone 10 R  lava 6u45 No SNI 2  lava 7u25  lava 8u161  lava 11.0.3  lava 12.0.1  OpenSSL 0.9.8y  OpenSSL 1.0.11 R  OpenSSL 1.0.2s R	EC 256 (SHA256)  EC 256 (SHA256)  RSA 2048 (SHA256)  EC 256 (SHA256)  -  -  RSA 2048 (SHA256)  EC 256 (SHA256)  EC 256 (SHA256)  EC 256 (SHA256)	TLS 1.2 > h2  TLS 1.0  TLS 1.0  TLS 1.0  TLS 1.3  TLS 1.3  TLS 1.3  TLS 1.2  TLS 1.2  TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_RSA_WITH_AES_128_CBC_SHA No FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS  TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS

Handshake Simulation			
Safari 6.0.4 / OS X 10.8.4 R	EC 256 (SHA256)	TLS 1.0	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 7 / iOS 7.1 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
<u>Safari 7 / OS X 10.9</u> R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 8 / iOS 8.4 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 8 / OS X 10.10 R	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA ECDH secp256r1 FS
Safari 9 / iOS 9 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Safari 9 / OS X 10.11 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Safari 10 / iOS 10 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Safari 10 / OS X 10.12 R	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 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	EC 256 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Yahoo Slurp Jan 2015	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
YandexBot Jan 2015	EC 256 (SHA256)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS

#### # Not simulated clients (Protocol mismatch)



IE 6 / XP No FS <sup>1</sup> No SNI <sup>2</sup>

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.
- $(3) \ {\hbox{Only first connection attempt simulated. Browsers sometimes retry with a lower protocol version.}$
- $(\mathsf{R}) \ \mathsf{Denotes} \ \mathsf{a} \ \mathsf{reference} \ \mathsf{browser} \ \mathsf{or} \ \mathsf{client}, \ \mathsf{with} \ \mathsf{which} \ \mathsf{we} \ \mathsf{expect} \ \mathsf{better} \ \mathsf{effective} \ \mathsf{security}.$
- (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**

	No, server keys and hostname not seen elsewhere with SSLv2
DROWN	(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	No
Insecure Client-Initiated Renegotiation	No
BEAST attack	Not mitigated server-side (more info) TLS 1.0: 0xc009
POODLE (SSLv3)	No, SSL 3 not supported (more info)
POODLE (TLS)	No (more info)
Zombie POODLE	No (more info) TLS 1.2: 0xc009
GOLDENDOODLE	No (more info) TLS 1.2: 0xc009
OpenSSL 0-Length	No (more info) TLS 1.2: 0xc009
Sleeping POODLE	No (more info) TLS 1.2: 0xc009
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 h2 h2-fb http/1.1
NPN	No
Session resumption (caching)	Yes
Session resumption (tickets)	Yes

Protocol Details	
OCSP stapling	No
Strict Transport Security (HSTS)	Yes max-age=31536000; includeSubDomains; preload
HSTS Preloading	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
SSL 2 handshake compatibility	Yes
0-RTT enabled	No



### **HTTP Requests**



1 https://instagram.com/ (HTTP/1.1 301 Moved Permanently)



#### Miscellaneous

Test date	Fri, 22 Oct 2021 08:07:15 UTC
Test duration	132.501 seconds
HTTP status code	301
HTTP forwarding	https://www.instagram.com
HTTP server signature	-
Server hostname	instagram-p42-shv-02-atl3.fbcdn.net

SSL Report v2.1.8

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