SSL Report: www.thwakedam.go.ke (41.76.171.1)

Assessed on: Mon, 26 Oct 2026 06:36:31 UTC | **HIDDEN** | Clear cache

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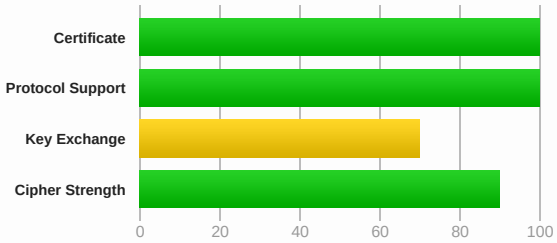
Summary

Overall Rating

B



Visit our documentation page for more information, configuration guides, and books. Known issues are documented here.

This server does not support Forward Secrecy with the reference browsers. Grade capped to B. MORE INFO »

HTTP request to this server failed, see below for details.

This site works only in browsers with SNI support.

This server supports TLS 1.3. MORE INFO »

This server does not support PQC (Post-Quantum Cryptography) key exchange.

Certificate #1: RSA 2048 bits (SHA384withRSA)

Server Key and Certificate #1

Subject	*.thwakedam.go.ke Fingerprint SHA256: 18390ad4f275f40fc5f8ddbaee31a94df87a69655dc8137f617660e11d34c4b6 Pin SHA256: rxi4CL8USCuBD6WkXA7AFhmJ1Zg/7iU57E+KhtqDxak=
Common names	*.thwakedam.go.ke
Alternative names	thwakedam.go.ke *.thwakedam.go.ke
Serial Number	00f8cc2abf69bd427abbe96867da0062
Valid from	Fri, 16 Oct 2026 22:33:07 UTC
Valid until	Wed, 13 Jan 2027 22:33:07 UTC (expires in 2 months and 18 days)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	EM DV TLS CA - G2A-1 AIA: http://repository.emsign.com/certs/EMDVTLSCAG2A1EE.p7c
Signature algorithm	SHA384withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crl.emsign.com?EMDVTLSCAG2A1.crl OCSP: http://ocsp-a.emsign.com
Revocation status	Good (not revoked)

Server Key and Certificate #1

DNS CAA	No (more info)
Trusted	Yes Mozilla Apple Android Java Windows

Additional Certificates (if supplied)

Certificates provided	6 (8490 bytes)
Chain issues	Contains anchor

#2

Subject	EM DV TLS CA - G2A-1 Fingerprint SHA256: 122a5433d8a2a8c501d5e680ab216885a6019326a189df91e8895f8b5ad488dd Pin SHA256: zrUpja649ZJ5SAtGACyJ93Vcw6FpUUsRuBC+/BlaANg=
Valid until	Sun, 31 Dec 2028 23:59:59 UTC (expires in 2 years and 2 months)
Key	RSA 4096 bits (e 65537)
Issuer	AAA Certificate Services
Signature algorithm	SHA256withRSA

#3

Subject	AAA Certificate Services In trust store Fingerprint SHA256: d7a7a0fb5d7e2731d771e9484ebcdef71d5f0c3e0a2948782bc83ee0ea699ef4 Pin SHA256: vRU+17BDT2iGsXvOi76E7TQMcTLXAqj0+jGPdW7L1vM=
Valid until	Sun, 31 Dec 2028 23:59:59 UTC (expires in 2 years and 2 months)
Key	RSA 2048 bits (e 65537)
Issuer	AAA Certificate Services Self-signed
Signature algorithm	SHA1withRSA Weak, but no impact on root certificate

#4

Subject	EM DV TLS CA - G2A-1 Fingerprint SHA256: 3f13597d3355d341bd09328aee567d7f4e002d9919b986f9962daff197ea75d1 Pin SHA256: zrUpja649ZJ5SAtGACyJ93Vcw6FpUUsRuBC+/BlaANg=
Valid until	Mon, 28 May 2040 07:16:12 UTC (expires in 13 years and 7 months)
Key	RSA 4096 bits (e 65537)
Issuer	emSign Root TLS CA - G1
Signature algorithm	SHA384withRSA

#5

Subject	emSign Root TLS CA - G1 Fingerprint SHA256: 9b913476eab476e21e0887dbcde44345d1359d28116b83b7cd3e87bd807ebf68 Pin SHA256: 7OKONSic6GIcckB5SeUFAFKtRgfMMy6vm1RgKarL+3o=
Valid until	Sat, 09 Jul 2039 18:30:00 UTC (expires in 12 years and 8 months)
Key	RSA 4096 bits (e 65537)
Issuer	emSign Root CA - G1
Signature algorithm	SHA256withRSA

#6

Subject	emSign Root CA - G1 In trust store Fingerprint SHA256: 40f6af0346a99aa1cd1d555a4e9cce62c7f9634603ee406615833dc8c8d00367 Pin SHA256: N2oacIKlk9zMINVh0Rnpq40w8RzDIdCjf6QfDfKE4Bw=
Valid until	Wed, 18 Feb 2043 18:30:00 UTC (expires in 16 years and 3 months)
Key	RSA 2048 bits (e 65537)
Issuer	emSign Root CA - G1 Self-signed
Signature algorithm	SHA256withRSA

Certification Paths

Click here to expand

Certificate #2: RSA 2048 bits (SHA384withRSA) No SNI

Click here to expand

Configuration

Protocols

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

(*) Experimental: Server negotiated using No-SNI

Cipher Suites

 # TLS 1.3 (server has no preference)

TLS_AES_128_GCM_SHA256 (0x1301)	ECDH x25519 (eq. 3072 bits RSA) FS	128
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

 # TLS 1.2 (server has no preference)

TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)	WEAK	128
TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x33)	DH 2048 bits FS WEAK	128
TLS_RSA_WITH_CAMELLIA_128_CBC_SHA (0x41)	WEAK	128
TLS_DHE_RSA_WITH_CAMELLIA_128_CBC_SHA (0x45)	DH 2048 bits FS WEAK	128
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH secp521r1 (eq. 15360 bits RSA) FS WEAK	128
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c)	WEAK	128
TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (0x67)	DH 2048 bits FS WEAK	128
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)	WEAK	128
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e)	DH 2048 bits FS	128
TLS_RSA_WITH_CAMELLIA_128_CBC_SHA256 (0xba)	WEAK	128
TLS_DHE_RSA_WITH_CAMELLIA_128_CBC_SHA256 (0xbe)	DH 2048 bits FS WEAK	128
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH secp521r1 (eq. 15360 bits RSA) FS WEAK	128
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_RSA_WITH_ARIA_128_GCM_SHA256 (0xc050)	WEAK	128
TLS_DHE_RSA_WITH_ARIA_128_GCM_SHA256 (0xc052)	DH 2048 bits FS	128
TLS_ECDHE_RSA_WITH_ARIA_128_GCM_SHA256 (0xc060)	ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_ECDHE_RSA_WITH_CAMELLIA_128_CBC_SHA256 (0xc076)	ECDH secp521r1 (eq. 15360 bits RSA) FS WEAK	128
TLS_RSA_WITH_AES_128_CCM (0xc09c)	WEAK	128
TLS_DHE_RSA_WITH_AES_128_CCM (0xc09e)	DH 2048 bits FS	128
TLS_RSA_WITH_AES_128_CCM_8 (0xc0a0)	WEAK	128
TLS_DHE_RSA_WITH_AES_128_CCM_8 (0xc0a2)	DH 2048 bits FS	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)	WEAK	256
TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39)	DH 2048 bits FS WEAK	256
TLS_RSA_WITH_CAMELLIA_256_CBC_SHA (0x84)	WEAK	256
TLS_DHE_RSA_WITH_CAMELLIA_256_CBC_SHA (0x88)	DH 2048 bits FS WEAK	256
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp521r1 (eq. 15360 bits RSA) FS WEAK	256
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d)	WEAK	256

Cipher Suites

TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (0x6b) DH 2048 bits FS **WEAK**		256
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d) **WEAK**		256
TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f) DH 2048 bits FS		256
TLS_RSA_WITH_CAMELLIA_256_CBC_SHA256 (0xc0) **WEAK**		256
TLS_DHE_RSA_WITH_CAMELLIA_256_CBC_SHA256 (0xc4) DH 2048 bits FS **WEAK**		256
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**		256
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) ECDH secp521r1 (eq. 15360 bits RSA) FS		256
TLS_RSA_WITH_ARIA_256_GCM_SHA384 (0xc051) **WEAK**		256
TLS_DHE_RSA_WITH_ARIA_256_GCM_SHA384 (0xc053) DH 2048 bits FS		256
TLS_ECDHE_RSA_WITH_ARIA_256_GCM_SHA384 (0xc061) ECDH secp521r1 (eq. 15360 bits RSA) FS		256
TLS_ECDHE_RSA_WITH_CAMELLIA_256_CBC_SHA384 (0xc077) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**		256
TLS_RSA_WITH_AES_256_CCM (0xc09d) **WEAK**		256
TLS_DHE_RSA_WITH_AES_256_CCM (0xc09f) DH 2048 bits FS		256
TLS_RSA_WITH_AES_256_CCM_8 (0xc0a1) **WEAK**		256
TLS_DHE_RSA_WITH_AES_256_CCM_8 (0xc0a3) DH 2048 bits FS		256
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca8) ECDH secp521r1 (eq. 15360 bits RSA) FS		256
TLS_DHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xccaa) DH 2048 bits FS		256

Handshake Simulation

Android 4.4.2	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS
Android 5.0.0	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA 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 > http/1.1	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Android 8.0	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	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_256_GCM_SHA384 ECDH secp521r1 FS
Chrome 49 / XP SP3	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Chrome 69 / Win 7 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	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
Chrome 131 / 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 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 49 / XP SP3	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 62 / Win 7 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
Firefox 73 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Firefox 135 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Googlebot Feb 2018	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
IE 11 / Win 7 R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
IE 11 / Win 8.1 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
IE 11 / Win Phone 8.1 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_RSA_WITH_AES_128_CBC_SHA256 No FS
IE 11 / Win Phone 8.1 Update R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
IE 11 / Win 10 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Edge 15 / Win 10 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
Edge 16 / Win 10 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
Edge 18 / Win 10 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
Edge 131 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Edge 13 / Win Phone 10 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Java 8u161	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Java 11.0.3	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS

Handshake Simulation

Java 12.0.1	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS
OpenSSL 1.0.1l R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS
OpenSSL 1.0.2s R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.1.0k R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
OpenSSL 1.1.1c R	-	TLS 1.3	TLS_AES_256_GCM_SHA384 ECDH x25519 FS
Opera 117 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Safari 6 / iOS 6.0.1	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 7 / iOS 7.1 R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 7 / OS X 10.9 R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 8 / iOS 8.4 R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 8 / OS X 10.10 R	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 9 / iOS 9 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 9 / OS X 10.11 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 10 / iOS 10 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 10 / OS X 10.12 R	RSA 2048 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 12.1.2 / MacOS 10.14.6 Beta 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 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Yahoo Slurp Jan 2015	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp384r1 FS
YandexBot Jan 2015	RSA 2048 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS

 # Not simulated clients (Protocol mismatch)

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) 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

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) TLS 1.2 : 0x002f
GOLDENDOODLE	No (more info) TLS 1.2 : 0x002f
OpenSSL 0-Length	No (more info) TLS 1.2 : 0x002f
Sleeping POODLE	No (more info) TLS 1.2 : 0x002f
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 some browsers** (more info)

Protocol Details

ALPN	Yes http/1.1
NPN	No
Session resumption (caching)	Yes
Session resumption (tickets)	No
OCSP stapling	No
Strict Transport Security (HSTS)	Unknown (failed HTTP request?)
HSTS Preloading	Not in: Chrome Edge Firefox IE
Public Key Pinning (HPKP)	Unknown (failed HTTP request?)
Public Key Pinning Report-Only	Unknown (failed HTTP request?)
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
DH public server param (Ys) reuse	No
ECDH public server param reuse	No
Supported Named Groups	x25519, secp256r1, x448, secp521r1, secp384r1, ffdhe2048, ffdhe3072, ffdhe4096, ffdhe6144, ffdhe8192 (server preferred order)
PQC Key Exchange	Not Supported
Supported PQC Groups	-
SSL 2 handshake compatibility	No
0-RTT enabled	No

HTTP Requests

1 **https://www.thwakedam.go.ke/** (Request failed)

Miscellaneous

Test date	Mon, 26 Oct 2026 06:32:23 UTC
Test duration	247.627 seconds
HTTP status code	Request failed
HTTP server signature	Unknown
Server hostname	-

SSL Report v2.4.3

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