SSL Report: dcdndoor02.sdcc.bnl.gov (2620:0:210:2:0:0:0:4a)

Assessed on: Mon, 26 Oct 2026 08:22:42 UTC | **HIDDEN** | Clear cache

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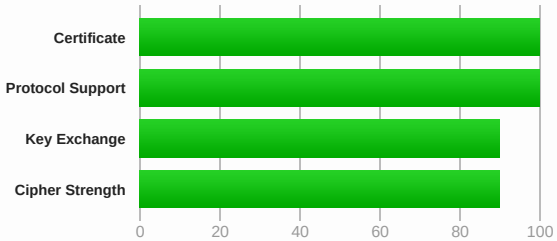
Summary

Overall Rating

B



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

This server's certificate chain is incomplete. Grade capped to B.

This server supports TLS 1.3. MORE INFO »

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

HTTP Strict Transport Security (HSTS) with long duration deployed on this server. MORE INFO »

Certificate #1: RSA 4096 bits (SHA384withRSA)

Server Key and Certificate #1

Subject	dcdndoor02.sdcc.bnl.gov Fingerprint SHA256: f09e634ae363c31510e015dd8b8e36759024f3fbb1c3709634efa7a67d3db694 Pin SHA256: veP0Nui3BevTD1gMHD6dLB5b/h1uUQxUNp7qPpmzEQ4=
Common names	dcdndoor02.sdcc.bnl.gov
Alternative names	dcdndoor02.sdcc.bnl.gov dcdndoor.sdcc.bnl.gov
Serial Number	27b6372d1b5d0263c58bd07545a03c
Valid from	Mon, 19 Oct 2026 12:52:30 UTC
Valid until	Thu, 06 May 2027 12:52:30 UTC (expires in 6 months and 10 days)
Key	RSA 4096 bits (e 65537)
Weak key (Debian)	No
Issuer	InCommon RSA IGTF Server CA 4 AIA: http://repository.emsign.com/certs/EEEMIncommonIGTFOVG2C.crt
Signature algorithm	SHA384withRSA
Extended Validation	No
Certificate Transparency	**Yes (certificate)**
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crl-c.emsign.com/?EEEMIncommonIGTFOVG2C.crl OCSP: http://ocsp-c.emsign.com
Revocation status	Good (not revoked)
DNS CAA	No (more info)

Server Key and Certificate #1

Trusted	Yes Mozilla Apple Android Java Windows

Additional Certificates (if supplied)

Certificates provided	1 (2317 bytes)
Chain issues	Incomplete

Certification Paths

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

Cipher Suites

 # TLS 1.3 (suites in server-preferred order)

TLS_AES_256_GCM_SHA384 (0x1302)	ECDH x25519 (eq. 3072 bits RSA) FS	256
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

 # TLS 1.2 (suites in server-preferred order)

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp521r1 (eq. 15360 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca8)	ECDH secp521r1 (eq. 15360 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f)	DH 2048 bits FS	256
TLS_DHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xccaa)	DH 2048 bits FS	256
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e)	DH 2048 bits FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	128
TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39)	DH 2048 bits FS **WEAK**	256
TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x33)	DH 2048 bits FS **WEAK**	128

Handshake Simulation

Android 4.4.2	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1 FS
Android 5.0.0	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp521r1 FS
Android 6.0	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Android 7.0	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
Android 8.0	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
Android 8.1	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519 FS
Android 9.0	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519 FS
BingPreview Jan 2015	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1 FS

Handshake Simulation

Chrome 49 / XP SP3	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
Chrome 69 / Win 7 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Chrome 70 / Win 10	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Chrome 80 / Win 10 R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Chrome 131 / Win 10 R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Firefox 31.3.0 ESR / Win 7	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
Firefox 47 / Win 7 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
Firefox 49 / XP SP3	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Firefox 62 / Win 7 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Firefox 73 / Win 10 R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Firefox 135 / Win 10 R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Googlebot Feb 2018	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
IE 11 / Win 7 R	RSA 4096 (SHA384)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048	FS
IE 11 / Win 8.1 R	RSA 4096 (SHA384)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048	FS
IE 11 / Win Phone 8.1 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
IE 11 / Win Phone 8.1 Update R	RSA 4096 (SHA384)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048	FS
IE 11 / Win 10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Edge 15 / Win 10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 16 / Win 10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 18 / Win 10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 131 / Win 10 R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Edge 13 / Win Phone 10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Java 8u161	RSA 4096 (SHA384)	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 1.0.1l R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1	FS
OpenSSL 1.0.2s R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
OpenSSL 1.1.0k R	RSA 4096 (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_256_GCM_SHA384	ECDH x25519	FS
Safari 6 / iOS 6.0.1	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 7 / iOS 7.1 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 7 / OS X 10.9 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 8 / iOS 8.4 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 8 / OS X 10.10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA	ECDH secp256r1	FS
Safari 9 / iOS 9 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 9 / OS X 10.11 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / iOS 10 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / OS X 10.12 R	RSA 4096 (SHA384)	TLS 1.2	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_AES_256_GCM_SHA384	ECDH x25519	FS
Safari 12.1.1 / iOS 12.3.1 R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Apple ATS 9 / iOS 9 R	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Yahoo Slurp Jan 2015	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp384r1	FS
YandexBot Jan 2015	RSA 4096 (SHA384)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp521r1	FS

Not simulated clients (Protocol mismatch)

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(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.

Handshake Simulation

(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 : `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	No, TLS_FALLBACK_SCSV not 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	**Yes (with most browsers) ROBUST** (more info)
ALPN	No
NPN	No
Session resumption (caching)	**No (IDs assigned but not accepted)**
Session resumption (tickets)	Yes
OCSP stapling	No
Strict Transport Security (HSTS)	**Yes** max-age=31536000; includeSubDomains; preload
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
DH public server param (Ys) reuse	No
ECDH public server param reuse	No
Supported Named Groups	secp256r1, secp384r1, secp521r1, x25519, x448, ffdhe2048, ffdhe3072, ffdhe4096, ffdhe6144, ffdhe8192 (Server has no preference)
PQC Key Exchange	Not Supported
Supported PQC Groups	-
SSL 2 handshake compatibility	No
0-RTT enabled	Test failed

HTTP Requests

1 **https://dcdndoor02.sdcc.bnl.gov/** (HTTP/1.1 401 login failed)

Miscellaneous

Test date	Mon, 26 Oct 2026 08:21:36 UTC
Test duration	66.166 seconds
HTTP status code	401
HTTP server signature	dCache/11.2.7
Server hostname	dcdndoor02.sdcc.bnl.gov

SSL Report v2.4.3

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