# SSL Report: blrucio11.sdcc.bnl.gov (192.33.128.53)

**Assessed on:** Mon, 26 Oct 2026 07:28:01 UTC | **HIDDEN** | Clear cache

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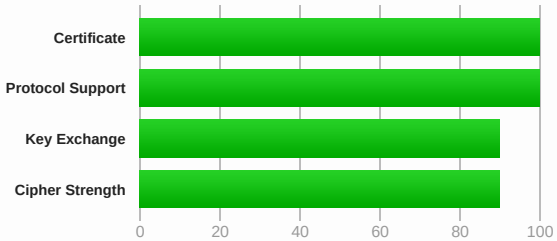
## Summary

Overall Rating

A+




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

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** | blrucio11.sdcc.bnl.gov<br>Fingerprint SHA256: f67ef937cd69a8f8f219bdf174f03ba6bc59a67ae02f07eb46e9b659f51ec73c<br>Pin SHA256: YVG6uRwEpk5dkrIcw5Z0SljGgtoFEsWZVb+81hc8jBI= |
| **Common names** | blrucio11.sdcc.bnl.gov |
| **Alternative names** | blrucio11.sdcc.bnl.gov blruciotracer.sdcc.bnl.gov |
| **Serial Number** | 6be60fd25c3b80e531275b21c93c2a |
| **Valid from** | Mon, 19 Oct 2026 05:09:07 UTC |
| **Valid until** | Thu, 06 May 2027 05:09:07 UTC (expires in 6 months and 9 days) |
| **Key** | RSA 4096 bits (e 65537) |
| **Weak key (Debian)** | No |
| **Issuer** | InCommon RSA IGTF Server CA 4<br>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<br>CRL: http://crl-c.emsign.com/?EEEMIncommonIGTFOVG2C.crl<br>OCSP: http://ocsp-c.emsign.com |
| **Revocation status** | Good (not revoked) |
| **DNS CAA** | No (more info) |
| **Trusted** | **Yes**<br>**Mozilla Apple Android Java Windows** |

### Additional Certificates (if supplied)

| | |
|---|---|
| **Certificates provided** | 3 (5483 bytes) |
| **Chain issues** | **Contains anchor, Not trusted as supplied** |

#### #2

| | |
|---|---|
| **Subject** | InCommon RSA IGTF Server CA 4<br>Fingerprint SHA256: f1a78e13d7ab31072e223918d257b541010ad93ae6d39f3d74a0d8b2ee4c3e7d<br>Pin SHA256: 4bqal9iedeKZtJ+V6QfkLvcjL2Yn2pdvecK9MqsAOfk= |
| **Valid until** | Sat, 07 Apr 2029 20:11:10 UTC (expires in 2 years and 5 months) |
| **Key** | RSA 4096 bits (e 65537) |
| **Issuer** | emSign Root TLS CA - G1 |
| **Signature algorithm** | SHA384withRSA |

#### #3

| | |
|---|---|
| **Subject** | emSign Root TLS CA - G1 Not in trust store<br>Fingerprint SHA256: cef71e70b7c29addf6c30cd19e614b38fd5f02a435a0eeddd0087e183d101a51<br>Pin SHA256: 7OKONSic6GIcckB5SeUFAFKtRgfMMy6vm1RgKarL+3o= |
| **Valid until** | Sun, 07 Feb 2049 07:45:41 UTC (expires in 22 years and 3 months) |
| **Key** | RSA 4096 bits (e 65537) |
| **Issuer** | emSign Root TLS CA - G1 Self-signed |
| **Signature algorithm** | SHA384withRSA |

### 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_CHACHA20_POLY1305_SHA256 (0x1303) | ECDH x25519 (eq. 3072 bits RSA) FS | 256 |
| TLS_AES_128_GCM_SHA256 (0x1301) | ECDH x25519 (eq. 3072 bits RSA) FS | 128 |
| TLS_AES_128_CCM_SHA256 (0x1304) | ECDH x25519 (eq. 3072 bits RSA) FS | 128 |

#### # TLS 1.2 (suites in server-preferred order)

| | | |
|---|---|---|
| TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030) | ECDH x25519 (eq. 3072 bits RSA) FS | 256 |
| TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f) | ECDH x25519 (eq. 3072 bits RSA) FS | 128 |
| TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca8) | ECDH x25519 (eq. 3072 bits RSA) FS | 256 |
| TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f) | DH 4096 bits FS | 256 |
| TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e) | DH 4096 bits FS | 128 |
| TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028) | ECDH x25519 (eq. 3072 bits RSA) FS **WEAK** | 256 |
| TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014) | ECDH x25519 (eq. 3072 bits RSA) FS **WEAK** | 256 |

### Cipher Suites

| | | |
|---|---|---|
| TLS_DHE_RSA_WITH_AES_256_CCM (0xc09f) | DH 4096 bits FS | 256 |
| TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (0x6b) | DH 4096 bits FS **WEAK** | 256 |
| TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39) | DH 4096 bits FS **WEAK** | 256 |
| TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027) | ECDH x25519 (eq. 3072 bits RSA) FS **WEAK** | 128 |
| TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013) | ECDH x25519 (eq. 3072 bits RSA) FS **WEAK** | 128 |
| TLS_DHE_RSA_WITH_AES_128_CCM (0xc09e) | DH 4096 bits FS | 128 |
| TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (0x67) | DH 4096 bits FS **WEAK** | 128 |
| TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x33) | DH 4096 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 secp256r1 FS |
| Android 5.0.0 | RSA 4096 (SHA384) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 | ECDH secp256r1 FS |
| Android 6.0 | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 | ECDH secp256r1 FS |
| Android 7.0 | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH x25519 FS |
| Android 8.0 | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | 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 secp256r1 FS |
| Chrome 49 / XP SP3 | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 | ECDH secp256r1 FS |
| Chrome 69 / Win 7 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | 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 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 | ECDH secp256r1 FS |
| Firefox 49 / XP SP3 | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH secp256r1 FS |
| Firefox 62 / Win 7 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | 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 4096 FS |
| IE 11 / Win 8.1 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 | DH 4096 FS |
| IE 11 / Win Phone 8.1 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | 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 > http/1.1 | TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 | DH 4096 FS |
| IE 11 / Win 10 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH secp256r1 FS |
| Edge 15 / Win 10 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH x25519 FS |
| Edge 16 / Win 10 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH x25519 FS |
| Edge 18 / Win 10 R | RSA 4096 (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_256_GCM_SHA384 | ECDH x25519 FS |
| Edge 13 / Win Phone 10 R | RSA 4096 (SHA384) | TLS 1.2 > http/1.1 | 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 secp256r1 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_SHA384 | ECDH secp256r1 FS |
| Safari 7 / iOS 7.1 R | RSA 4096 (SHA384) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 | ECDH secp256r1 FS |
| Safari 7 / OS X 10.9 R | RSA 4096 (SHA384) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 | ECDH secp256r1 FS |

### Handshake Simulation

| | | | | |
|---|---|---|---|---|
| Safari 8 / iOS 8.4 R | RSA 4096 (SHA384) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 | ECDH secp256r1 FS |
| Safari 8 / OS X 10.10 R | RSA 4096 (SHA384) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 | ECDH secp256r1 FS |
| Safari 9 / iOS 9 R | RSA 4096 (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 4096 (SHA384) | TLS 1.2 > http/1.1 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH secp256r1 FS |
| Safari 10 / iOS 10 R | RSA 4096 (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 4096 (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_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 > http/1.1 | 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 secp256r1 FS |
| YandexBot Jan 2015 | RSA 4096 (SHA384) | TLS 1.2 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDH secp256r1 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 : 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** | **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** | **Yes (with most browsers) ROBUST** (more info) |
| **ALPN** | Yes http/1.1 |
| **NPN** | No |
| **Session resumption (caching)** | **No (IDs empty)** |
| **Session resumption (tickets)** | No |
| **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) |

## Protocol Details

| | |
|---|---|
| **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** | 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** | Yes |
| **0-RTT enabled** | No |

## HTTP Requests

1 **https://blrucio11.sdcc.bnl.gov/** (HTTP/1.1 404 NOT FOUND)

## Miscellaneous

| | |
|---|---|
| **Test date** | Mon, 26 Oct 2026 07:25:40 UTC |
| **Test duration** | 71.463 seconds |
| **HTTP status code** | 404 |
| **HTTP server signature** | Apache |
| **Server hostname** | blrucio11.sdcc.bnl.gov |

SSL Report v2.4.3

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