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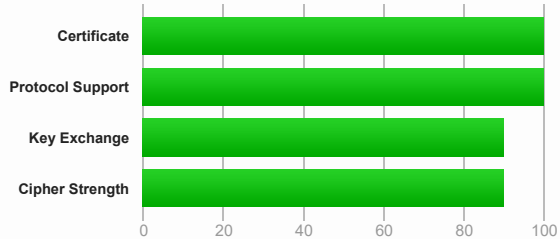
SSL Report: [web.brr.no](#) (109.235.103.166)

Assessed on: Fri, 05 Feb 2021 12:46:28 UTC | [Hide](#) | [Clear cache](#)

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Summary

Overall Rating



Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server supports TLS 1.3.

Certificate #1: RSA 2048 bits (SHA256withRSA)



Server Key and Certificate #1



Subject	web.brr.no Fingerprint SHA256: 7981ab831c120c088164153fe3685731a0cd69703d8bc5be071732a20f9549c1 Pin SHA256: BuwLilGwAISDMwARFeK9X2ZkKFOZR+5rKKEbx1HjMNM=
Common names	web.brr.no
Alternative names	web.brr.no
Serial Number	04661d3298d746734d11f5bf2ae7f07f9726
Valid from	Thu, 04 Feb 2021 17:58:29 UTC
Valid until	Wed, 05 May 2021 17:58:29 UTC (expires in 3 months)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	R3 AIA: http://r3.i.lencr.org/
Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	OCSP OCSP: http://r3.o.lencr.org/
Revocation status	Good (not revoked)
DNS CAA	No (more info)
Trusted	Yes Mozilla Apple Android Java Windows



Additional Certificates (if supplied)



Certificates provided	2 (2439 bytes)
Chain issues	None
#2	
Subject	R3 Fingerprint SHA256: 730c1bdcd85f57ce5dc0bba733e5f1ba5a925b2a771d640a26f7a454224dad3b Pin SHA256: jQJTBlh0grw0/1TkHSuMwB+Fs0Ggogr621gT3PvPKG0=

Additional Certificates (if supplied)

Valid until	Wed, 29 Sep 2021 19:21:40 UTC (expires in 7 months and 24 days)
Key	RSA 2048 bits (e 65537)
Issuer	DST Root CA X3
Signature algorithm	SHA256withRSA



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 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_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f)	DH 2048 bits FS	256
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xc0a8)	ECDH x25519 (eq. 3072 bits RSA) FS	256
TLS_DHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xc0aa)	DH 2048 bits FS	256
TLS_DHE_RSA_WITH_AES_256_CCM_8 (0xc0a3)	DH 2048 bits FS	256
TLS_DHE_RSA_WITH_AES_256_CCM (0xc09f)	DH 2048 bits FS	256
TLS_ECDHE_RSA_WITH_ARIA_256_GCM_SHA384 (0xc061)	ECDH x25519 (eq. 3072 bits RSA) FS	256
TLS_DHE_RSA_WITH_ARIA_256_GCM_SHA384 (0xc053)	DH 2048 bits FS	256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH x25519 (eq. 3072 bits RSA) FS	128
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e)	DH 2048 bits FS	128
TLS_DHE_RSA_WITH_AES_128_CCM_8 (0xc0a2)	DH 2048 bits FS	128
TLS_DHE_RSA_WITH_AES_128_CCM (0xc09e)	DH 2048 bits FS	128
TLS_ECDHE_RSA_WITH_ARIA_128_GCM_SHA256 (0xc060)	ECDH x25519 (eq. 3072 bits RSA) FS	128
TLS_DHE_RSA_WITH_ARIA_128_GCM_SHA256 (0xc052)	DH 2048 bits FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH x25519 (eq. 3072 bits RSA) FS WEAK	256
TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (0x6b)	DH 2048 bits FS WEAK	256
TLS_ECDHE_RSA_WITH_CAMELLIA_256_CBC_SHA384 (0xc077)	ECDH x25519 (eq. 3072 bits RSA) FS WEAK	256
TLS_DHE_RSA_WITH_CAMELLIA_256_CBC_SHA256 (0xc4)	DH 2048 bits FS WEAK	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH x25519 (eq. 3072 bits RSA) FS WEAK	128
TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (0x67)	DH 2048 bits FS WEAK	128
TLS_ECDHE_RSA_WITH_CAMELLIA_128_CBC_SHA256 (0xc076)	ECDH x25519 (eq. 3072 bits RSA) FS WEAK	128
TLS_DHE_RSA_WITH_CAMELLIA_128_CBC_SHA256 (0xbe)	DH 2048 bits FS WEAK	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH x25519 (eq. 3072 bits RSA) FS WEAK	256
TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39)	DH 2048 bits FS WEAK	256
TLS_DHE_RSA_WITH_CAMELLIA_256_CBC_SHA (0x88)	DH 2048 bits FS WEAK	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH x25519 (eq. 3072 bits RSA) FS WEAK	128

Cipher Suites

TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x33)	DH 2048 bits FS	WEAK	128
TLS_DHE_RSA_WITH_CAMELLIA_128_CBC_SHA (0x45)	DH 2048 bits FS	WEAK	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d)		WEAK	256
TLS_RSA_WITH_AES_256_CCM_8 (0xc0a1)		WEAK	256
TLS_RSA_WITH_AES_256_CCM (0xc09d)		WEAK	256
TLS_RSA_WITH_ARIA_256_GCM_SHA384 (0xc051)		WEAK	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)		WEAK	128
TLS_RSA_WITH_AES_128_CCM_8 (0xc0a0)		WEAK	128
TLS_RSA_WITH_AES_128_CCM (0xc09c)		WEAK	128
TLS_RSA_WITH_ARIA_128_GCM_SHA256 (0xc050)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d)		WEAK	256
TLS_RSA_WITH_CAMELLIA_256_CBC_SHA256 (0xc0)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c)		WEAK	128
TLS_RSA_WITH_CAMELLIA_128_CBC_SHA256 (0xba)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)		WEAK	256
TLS_RSA_WITH_CAMELLIA_256_CBC_SHA (0x84)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)		WEAK	128
TLS_RSA_WITH_CAMELLIA_128_CBC_SHA (0x41)		WEAK	128
TLS_DHE_RSA_WITH_SEED_CBC_SHA (0x9a)	DH 2048 bits FS	WEAK	128
TLS_RSA_WITH_SEED_CBC_SHA (0x96)		WEAK	128



Handshake Simulation

Android 4.4.2	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
Android 5.0.0	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Android 6.0	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Android 7.0	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
Android 8.0	RSA 2048 (SHA256)	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 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
Chrome 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1 FS
Chrome 69 / Win 7 R	RSA 2048 (SHA256)	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
Firefox 31.3.0 ESR / Win 7	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Firefox 47 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1 FS
Firefox 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
Firefox 62 / Win 7 R	RSA 2048 (SHA256)	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
Googlebot Feb 2018	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
IE 11 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048 FS
IE 11 / Win 8.1 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048 FS
IE 11 / Win Phone 8.1 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1 FS
IE 11 / Win Phone 8.1 Update R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	DH 2048 FS
IE 11 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
Edge 15 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
Edge 16 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
Edge 18 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS
Edge 13 / Win Phone 10 R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
Java 8u161	RSA 2048 (SHA256)	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 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
OpenSSL 1.0.2s R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1 FS
OpenSSL 1.1.0k R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH x25519 FS

Handshake Simulation

OpenSSL 1.1.1c R	-	TLS 1.3	TLS_AES_256_GCM_SHA384	ECDH x25519	FS
Safari 6 / iOS 6.0.1	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 7 / iOS 7.1 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 7 / OS X 10.9 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 8 / iOS 8.4 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 8 / OS X 10.10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384	ECDH secp256r1	FS
Safari 9 / iOS 9 R	RSA 2048 (SHA256)	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 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Safari 10 / iOS 10 R	RSA 2048 (SHA256)	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 (SHA256)	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 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
Yahoo Slurp Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	FS
YandexBot Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	ECDH secp256r1	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.
- (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	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: 0xc027
GOLDENDOODLE	No (more info) TLS 1.2: 0xc027
OpenSSL 0-Length	No (more info) TLS 1.2: 0xc027
Sleeping POODLE	No (more info) TLS 1.2: 0xc027
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)	Yes
Session resumption (tickets)	Yes
OCSP stapling	No

Protocol Details

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
DH public server param (Ys) reuse	No
ECDH public server param reuse	No
Supported Named Groups	x25519, secp256r1, x448, secp521r1, secp384r1 (server preferred order)
SSL 2 handshake compatibility	Yes
0-RTT enabled	No

**HTTP Requests**

1 <https://web.brr.no/> (HTTP/1.1 200 OK)

**Miscellaneous**

Test date	Fri, 05 Feb 2021 12:43:43 UTC
Test duration	165.483 seconds
HTTP status code	200
HTTP server signature	Apache
Server hostname	166.109-235-103.eninvest.net

SSL Report v2.1.8