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# SSL Report: amp.[test.io](#) ([test.io](#))

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## Summary

Overall Rating

**B**

Certificate

Protocol Support

Key Exchange

Cipher Strength

0 20 40 60 80 100

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

This server supports TLS 1.0 and TLS 1.1. Grade capped to B. [MORE INFO »](#)

## Certificate #1: RSA 2048 bits (SHA256withRSA)



### Server Key and Certificate #1

Subject	<a href="#">test.io</a> Fingerprint SHA256: <a href="#">test.io</a> Pin SHA256: <a href="#">test.io</a>
Common names	<a href="#">test.io</a>
Alternative names	<a href="#">test.io</a>
Serial Number	<a href="#">test.io</a>
Valid from	Fri, 05 Mar 2021 20:50:51 UTC
Valid until	Thu, 03 Jun 2021 20:50:51 UTC (expires in 2 months and 26 days)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	R3 AIA: <a href="http://r3.i.lencr.org/">http://r3.i.lencr.org/</a>
Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	OCSP OCSP: <a href="http://r3.o.lencr.org">http://r3.o.lencr.org</a>
Revocation status	Validation error OCSP ERROR: Exception: connect timed out [ <a href="http://r3.o.lencr.org">http://r3.o.lencr.org</a> ]
DNS CAA	No (more info)
Trusted	Yes Mozilla Apple Android Java Windows



### Additional Certificates (if supplied)

Certificates provided	2 (2441 bytes)
Chain issues	None

#2

### Additional Certificates (if supplied)

<b>Subject</b>	R3 Fingerprint SHA256: <input type="text"/> Pin SHA256: <input type="text"/>
<b>Valid until</b>	Wed, 29 Sep 2021 19:21:40 UTC (expires in 6 months and 21 days)
<b>Key</b>	RSA 2048 bits (e 65537)
<b>Issuer</b>	DST Root CA X3
<b>Signature algorithm</b>	SHA256withRSA



### Certification Paths



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## Configuration



### Protocols

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



### Cipher Suites

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

TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 (0xc0a8)	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_AES_256_GCM_SHA384 (0xc030)	ECDH x25519 (eq. 3072 bits RSA) FS	256
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e)	DH 2048 bits FS	128
TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x9f)	DH 2048 bits FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH x25519 (eq. 3072 bits RSA) FS <b>WEAK</b>	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH x25519 (eq. 3072 bits RSA) FS <b>WEAK</b>	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH x25519 (eq. 3072 bits RSA) FS <b>WEAK</b>	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH x25519 (eq. 3072 bits RSA) FS <b>WEAK</b>	256
TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (0x67)	DH 2048 bits FS <b>WEAK</b>	128
TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x33)	DH 2048 bits FS <b>WEAK</b>	128
TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (0x6b)	DH 2048 bits FS <b>WEAK</b>	256
TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x39)	DH 2048 bits FS <b>WEAK</b>	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c)	<b>WEAK</b>	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d)	<b>WEAK</b>	256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c)	<b>WEAK</b>	128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d)	<b>WEAK</b>	256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)	<b>WEAK</b>	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)	<b>WEAK</b>	256

#### # TLS 1.1 (suites in server-preferred order)

#### # TLS 1.0 (suites in server-preferred order)



### Handshake Simulation

<a href="#">Android 2.3.7</a> No SNI <sup>2</sup>	RSA 2048 (SHA256)	TLS 1.0	TLS_DHE_RSA_WITH_AES_128_CBC_SHA	DH 2048 FS
<a href="#">Android 4.0.4</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1 FS
<a href="#">Android 4.1.1</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1 FS
<a href="#">Android 4.2.2</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1 FS

## Handshake Simulation

<a href="#">Android 4.3</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">Android 4.4.2</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Android 5.0.0</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Android 6.0</a>	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Android 7.0</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Android 8.0</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Android 8.1</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Android 9.0</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Baidu Jan 2015</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">BingPreview Jan 2015</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Chrome 49 / XP SP3</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
<a href="#">Chrome 69 / Win 7</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Chrome 70 / Win 10</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Chrome 80 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Firefox 31.3.0 ESR / Win 7</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Firefox 47 / Win 7</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
<a href="#">Firefox 49 / XP SP3</a>	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
<a href="#">Firefox 62 / Win 7</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Firefox 73 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Gooblebot Feb 2018</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">IE 7 / Vista</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">IE 8 / XP</a> No FS <sup>1</sup> No SNI <sup>2</sup>	<b>Server sent fatal alert: handshake_failure</b>				
<a href="#">IE 8-10 / Win 7</a> R	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">IE 11 / Win 7</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_DHE_RSA_WITH_AES_128_GCM_SHA256	DH 2048	FS
<a href="#">IE 11 / Win 8.1</a> R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_DHE_RSA_WITH_AES_128_GCM_SHA256	DH 2048	FS
<a href="#">IE 10 / Win Phone 8.0</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">IE 11 / Win Phone 8.1</a> R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">IE 11 / Win Phone 8.1 Update</a> R	RSA 2048 (SHA256)	TLS 1.2 > http/1.1	TLS_DHE_RSA_WITH_AES_128_GCM_SHA256	DH 2048	FS
<a href="#">IE 11 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Edge 15 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH x25519	FS
<a href="#">Edge 16 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH x25519	FS
<a href="#">Edge 18 / Win 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH x25519	FS
<a href="#">Edge 13 / Win Phone 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Java 6u45</a> No SNI <sup>2</sup>	<b>Client does not support DH parameters &gt; 1024 bits</b>				
	RSA 2048 (SHA256)	TLS 1.0	TLS_DHE_RSA_WITH_AES_128_CBC_SHA	DH 2048	
<a href="#">Java 7u25</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">Java 8u161</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Java 11.0.3</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Java 12.0.1</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 0.9.8y</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_DHE_RSA_WITH_AES_128_CBC_SHA	DH 2048	FS
<a href="#">OpenSSL 1.0.1l</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 1.0.2s</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">OpenSSL 1.1.0k</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">OpenSSL 1.1.1c</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Safari 5.1.9 / OS X 10.6.8</a>	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">Safari 6 / iOS 6.0.1</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 6.0.4 / OS X 10.8.4</a> R	RSA 2048 (SHA256)	TLS 1.0	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA	ECDH secp256r1	FS
<a href="#">Safari 7 / iOS 7.1</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 7 / OS X 10.9</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 8 / iOS 8.4</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 8 / OS X 10.10</a> R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1	FS
<a href="#">Safari 9 / iOS 9</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 9 / OS X 10.11</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 10 / iOS 10</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Safari 10 / OS X 10.12</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS

## Handshake Simulation

<a href="#">Safari 12.1.2 / MacOS 10.14.6 Beta</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Safari 12.1.1 / iOS 12.3.1</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256	ECDH x25519	FS
<a href="#">Apple ATS 9 / iOS 9</a> R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">Yahoo Slurp Jan 2015</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1	FS
<a href="#">YandexBot Jan 2015</a>	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_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) 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

DROWN	No, server keys and hostname not seen elsewhere with SSLv2 (1) For a better understanding of this test, please read <a href="#">this longer explanation</a> (2) Key usage data kindly provided by the <a href="#">Censys</a> network search engine; original DROWN website <a href="#">here</a> (3) Censys data is only indicative of possible key and certificate reuse; possibly out-of-date and not complete
<b>Secure Renegotiation</b>	<b>Supported</b>
Secure Client-Initiated Renegotiation	No
Insecure Client-Initiated Renegotiation	No
BEAST attack	Not mitigated server-side ( <a href="#">more info</a> ) TLS 1.0: 0xc013
POODLE (SSLv3)	No, SSL 3 not supported ( <a href="#">more info</a> )
POODLE (TLS)	No ( <a href="#">more info</a> )
Zombie POODLE	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
GOLDENDOODLE	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
OpenSSL 0-Length	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
Sleeping POODLE	No ( <a href="#">more info</a> ) TLS 1.2 : 0xc027
<b>Downgrade attack prevention</b>	<b>Yes, TLS_FALLBACK_SCSV supported (<a href="#">more info</a>)</b>
SSL/TLS compression	No
RC4	No
Heartbeat (extension)	No
Heartbleed (vulnerability)	No ( <a href="#">more info</a> )
Ticketbleed (vulnerability)	No ( <a href="#">more info</a> )
OpenSSL CCS vuln. (CVE-2014-0224)	No ( <a href="#">more info</a> )
OpenSSL Padding Oracle vuln. (CVE-2016-2107)	No ( <a href="#">more info</a> )
ROBOT (vulnerability)	No ( <a href="#">more info</a> )
<b>Forward Secrecy</b>	<b>Yes (with most browsers) ROBUST (<a href="#">more info</a>)</b>
ALPN	Yes h2 http/1.1
NPN	Yes h2 http/1.1
Session resumption (caching)	Yes
Session resumption (tickets)	Yes
OCSP stapling	No
Strict Transport Security (HSTS)	No
HSTS Preloading	<b>Not in: Chrome Edge Firefox IE</b>
Public Key Pinning (HPKP)	No ( <a href="#">more info</a> )
Public Key Pinning Report-Only	No
Public Key Pinning (Static)	No ( <a href="#">more info</a> )
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

### Protocol Details

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



### HTTP Requests



1 [https://amp\[redacted\].io/](https://amp[redacted].io/) (HTTP/1.1 200 OK)



### Miscellaneous

Test date	Mon, 08 Mar 2021 06:05:04 UTC
Test duration	170.201 seconds
HTTP status code	200
HTTP server signature	nginx/1.14.2
Server hostname	s7[redacted].io

SSL Report v2.1.8