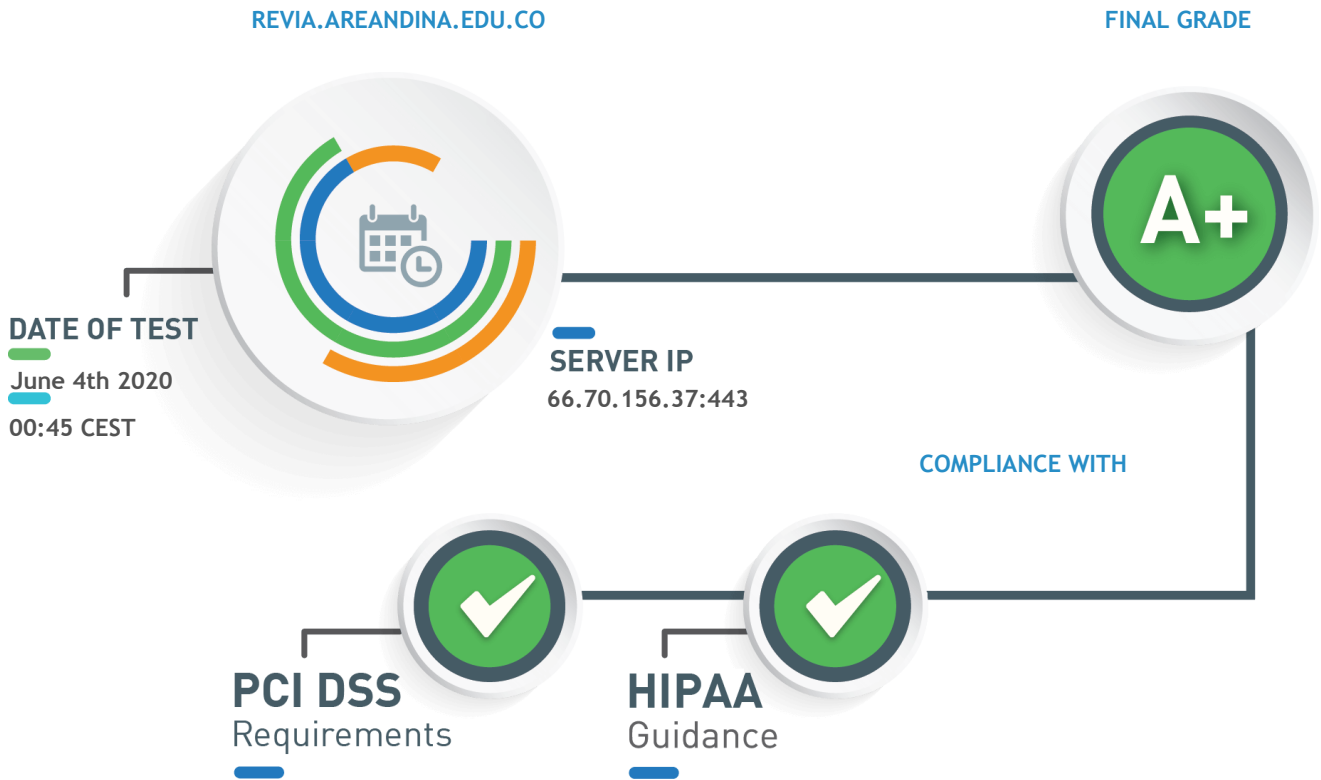


Test SSL/TLS implementation of any service on any port for compliance with PCI DSS requirements, HIPAA guidance and NIST guidelines.



Summary of revia.areandina.edu.co:443 (HTTPS)

The server configuration supports only TLSv1.2 protocol, precluding users with older browsers from accessing your website.

Information

SSL Certificate Analysis

RSA CERTIFICATE INFORMATION

Issuer	Let's Encrypt Authority X3
Trusted	Yes
Common Name	revia.areandina.edu.co
Key Type/Size	RSA 2048 bits
Signature Algorithm	sha256WithRSAEncryption
Subject Alternative Names	DNS:revia.areandina.edu.co
Transparency	Yes
Validation Level	DV
CRL	No
OCSP	http://ocsp.int-x3.letsencrypt.org
OCSP Must-Staple	No
Supports OCSP Stapling	Yes
Valid From	April 18th 2020, 23:03 CEST
Valid To	July 17th 2020, 23:03 CEST

CERTIFICATE CHAIN

DST Root CA X3

Self-signed

Root CA

Key Type/Size	RSA 2048 bits
Signature Algorithm	sha1WithRSAEncryption
SHA256	0687260331a72403d909f105e69bcf0d32e1bd2493ffc6d9206d11bcd6770739
PIN	Vjs8r4z+80wjNcr1YKepWQboSIRi63WsWXhIMN+eWys=
Expires in	484 days

↳ Let's Encrypt Authority X3

Intermediate CA

Key Type/Size	RSA 2048 bits
Signature Algorithm	sha256WithRSAEncryption
SHA256	25847d668eb4f04fdd40b12b6b0740c567da7d024308eb6c2c96fe41d9de218d
PIN	YLh1dUR9y6Kja30RrAn7JKnbQG/uEtLMkBgFF2Fuihg=
Expires in	287 days

↳ revia.areandina.edu.co

Server certificate

Key Type/Size	RSA 2048 bits
Signature Algorithm	sha256WithRSAEncryption

SHA256	9bc70b921b30a77f1c5cad46c03937861d974dea6d12de9306eaeace7967d2db
PIN	T4DtQRihVdfhouMHqoKSae3wRcn+3ERxzz6SMqmUvoc=
Expires in	44 days

Test For Compliance With PCI DSS Requirements

Reference: PCI DSS 3.1 - Requirements 2.3 and 4.1

CERTIFICATES ARE TRUSTED

All the certificates provided by the server are trusted.

Good configuration

SUPPORTED CIPHERS

List of all cipher suites supported by the server:

TLSV1.2

TLS_DHE_RSA_WITH_AES_128_GCM_SHA256

Good configuration

TLS_DHE_RSA_WITH_AES_256_GCM_SHA384

Good configuration

TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256

Good configuration

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

Good configuration

SUPPORTED PROTOCOLS

List of all SSL/TLS protocols supported by the server:

TLSv1.2

Good configuration

DIFFIE-HELLMAN PARAMETER SIZE

Diffie-Hellman parameter size: 2048 bits

Good configuration

SUPPORTED ELLIPTIC CURVES

List of all elliptic curves supported by the server:

secp256k1 (256 bits)

Good configuration

P-384 (secp384r1) (384 bits)

Good configuration

P-521 (secp521r1) (521 bits)

Good configuration

P-256 (prime256v1) (256 bits)

Good configuration

K-283 (sect283k1) (281 bits)

Good configuration

B-283 (sect283r1) (282 bits)

Good configuration

K-409 (sect409k1) (407 bits)

Good configuration

B-409 (sect409r1) (409 bits)

Good configuration

K-571 (sect571k1) (570 bits)

Good configuration

B-571 (sect571r1) (570 bits)

Good configuration

brainpoolP256r1 (256 bits)

Good configuration

brainpoolP384r1 (384 bits)

Good configuration

brainpoolP512r1 (512 bits)

Good configuration

POODLE OVER TLS

The server is not vulnerable to POODLE over TLS.

Not vulnerable

GOLDENDOODLE

The server is not vulnerable to GOLDENDOODLE.

Not vulnerable

ZOMBIE POODLE

The server is not vulnerable to Zombie POODLE.

Not vulnerable

SLEEPING POODLE

The server is not vulnerable to Sleeping POODLE.

Not vulnerable

0-LENGTH OPENSLL

The server is not vulnerable 0-Length OpenSSL.

Not vulnerable

CVE-2016-2107

The server is not vulnerable to OpenSSL padding-oracle flaw (CVE-2016-2107).

Not vulnerable

SERVER DOES NOT SUPPORT CLIENT-INITIATED INSECURE RENEGOTIATION

The server does not support client-initiated insecure renegotiation.

Good configuration

ROBOT

The server is not vulnerable to ROBOT (Return Of Bleichenbacher's Oracle Threat) vulnerability.

Not vulnerable

HEARTBLEED

The server version of OpenSSL is not vulnerable to Heartbleed attack.

Not vulnerable

CVE-2014-0224

The server is not vulnerable to CVE-2014-0224 (OpenSSL CCS flaw).

Not vulnerable

Test For Compliance With HIPAA Guidance

Reference: HIPAA of 1996, Guidance Specifying the Technologies and Methodologies that Render Protected Health Information Unusable, Unreadable, or Indecipherable to Unauthorized Individuals.

X.509 CERTIFICATES ARE IN VERSION 3

All the X509 certificates provided by the server are in version 3.

Good configuration

SERVER SUPPORTS OCSP STAPLING

The server supports OCSP stapling, which allows better verification of the certificate validation status.

Good configuration

SUPPORTED PROTOCOLS

List of all SSL/TLS protocols supported by the server:

TLSv1.2

Good configuration

SUPPORTED CIPHERS

List of all cipher suites supported by the server:

TLSV1.2

TLS_DHE_RSA_WITH_AES_128_GCM_SHA256

Good configuration

TLS_DHE_RSA_WITH_AES_256_GCM_SHA384

Good configuration

TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256

Good configuration

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

Good configuration

DIFFIE-HELLMAN PARAMETER SIZE

Diffie-Hellman parameter size: 2048 bits

Good configuration

SUPPORTED ELLIPTIC CURVES

List of all elliptic curves supported by the server:

secp256k1 (256 bits)

Good configuration

P-384 (secp384r1) (384 bits)

Good configuration

P-521 (secp521r1) (521 bits)

Good configuration

P-256 (prime256v1) (256 bits)

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Good configuration

K-409 (sect409k1) (407 bits)

Good configuration

B-409 (sect409r1) (409 bits)

Good configuration

K-571 (sect571k1) (570 bits)

Good configuration

B-571 (sect571r1) (570 bits)

Good configuration

brainpoolP256r1 (256 bits)

Good configuration

brainpoolP384r1 (384 bits)

Good configuration

brainpoolP512r1 (512 bits)

Good configuration

EC_POINT_FORMAT EXTENSION

The server supports the EC_POINT_FORMAT TLS extension.

Good configuration

Test For Compliance With NIST Guidelines

Reference: NIST Special Publication 800-52 Revision 2 - Section 3

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SUPPORTED CIPHERS

List of all cipher suites supported by the server:

TLSV1.2

TLS_DHE_RSA_WITH_AES_128_GCM_SHA256

Good configuration

TLS_DHE_RSA_WITH_AES_256_GCM_SHA384

Good configuration

TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256

Good configuration

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

Good configuration

SUPPORTED PROTOCOLS

List of all SSL/TLS protocols supported by the server:

TLSv1.2

Good configuration

DIFFIE-HELLMAN PARAMETER SIZE

Diffie-Hellman parameter size: 2048 bits

Good configuration

SUPPORTED ELLIPTIC CURVES

List of all elliptic curves supported by the server:

secp256k1 (256 bits)

Good configuration

P-384 (secp384r1) (384 bits)

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P-521 (secp521r1) (521 bits)

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P-256 (prime256v1) (256 bits)

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B-571 (sect571r1) (570 bits)

Good configuration

brainpoolP256r1 (256 bits)

Good configuration

brainpoolP384r1 (384 bits)

Good configuration

brainpoolP512r1 (512 bits)

Good configuration

SERVER DOES NOT SUPPORT OF TLSV1.3

The server does not support TLSv1.3 which is the only version of TLS that currently has no known flaws or exploitable weaknesses.

Information

SERVER DOES NOT SUPPORT EXTENDED MASTER SECRET

The server does not support Extended Master Secret extension for TLS vresions \leq 1.2.

Non-compliant with NIST guidelines

EC_POINT_FORMAT EXTENSION

The server supports the EC_POINT_FORMAT TLS extension.

Good configuration

Test For Industry Best-Practices

DNSCAA

This domain does not have a Certification Authority Authorization (CAA) record.

Information

CERTIFICATES DO NOT PROVIDE EV

The RSA certificate provided is NOT an Extended Validation (EV) certificate.

Information

SERVER DOES NOT SUPPORT OF TLSV1.3

The server does not support TLSv1.3 which is the only version of TLS that currently has no known flaws or exploitable weaknesses.

Misconfiguration or weakness

SERVER DOES NOT HAVE CIPHER PREFERENCE

The server does not prefer cipher suites. We advise to enable this feature in order to enforce usage of the best cipher suites selected.

Misconfiguration or weakness

ALWAYS-ON SSL

The HTTP version of the website redirects to the HTTPS version.

Good configuration

SERVER PROVIDES HSTS WITH LONG DURATION

The server provides HTTP Strict Transport Security for more than 6 months:

63072000 seconds

Good configuration

SERVER DOES NOT SUPPORT CLIENT-INITIATED SECURE RENEGOTIATION

The server does not support client-initiated secure renegotiation.

Good configuration

SERVER-INITIATED SECURE RENEGOTIATION

The server supports secure server-initiated renegotiation.

Good configuration

SERVER DOES NOT SUPPORT TLS COMPRESSION

TLS compression is not supported by the server.

Good configuration