SSL Report: www.portugal.gov.pt (192.230.66.192)

Assessed on: Mon, 18 Feb 2019 15:57:36 UTC | Hide | Clear cache

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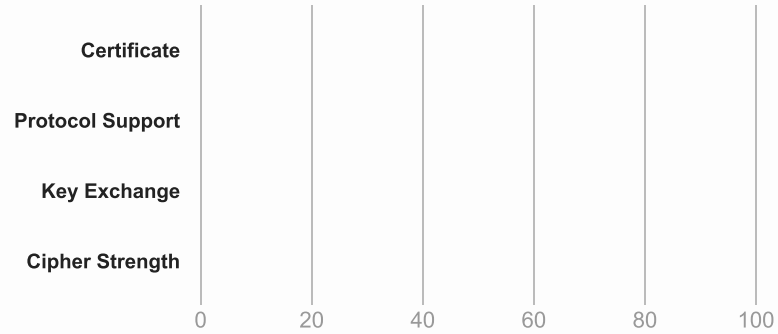
Summary

Overall Rating

A+



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

This site works only in browsers with SNI support.

Renegotiation test has been disabled temporarily due to an Apache httpd 2.4.37 bug. MORE INFO »

Experimental: This server supports TLS 1.3 (RFC 8446).

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

Certificate #1: RSA 2048 bits (SHA256withRSA)

Server Key and Certificate #1

Subject	www.portugal.gov.pt Fingerprint SHA256: 44a3d769180e61b86b74c80729c4669655f09fb40a0ebbe6b9374280bf8d91c3 Pin SHA256: cPbUZvwjemn8BdfkViSY1nMQHToGdC+OCqG9maAVe+k=
Common names	www.portugal.gov.pt
Alternative names	www.portugal.gov.pt portugal.gov.pt
Serial Number	133acf3432b7538749dcf694da2eb579
Valid from	Tue, 07 Aug 2018 00:00:00 UTC
Valid until	Wed, 07 Aug 2019 23:59:59 UTC (expires in 5 months and 20 days)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	COMODO RSA Organization Validation Secure Server CA AIA: http://crt.comodoca.com/COMODORSAOrganizationValidationSecureServerCA.crt
Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	**Yes (certificate)**
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crl.comodoca.com/COMODORSAOrganizationValidationSecureServerCA.crl OCSP: http://ocsp.comodoca.com
Revocation status	Good (not revoked)
DNS CAA	No (more info)
Trusted	**Yes** **Mozilla Apple Android Java Windows**

Additional Certificates (if supplied)

Additional Certificates (if supplied)

Certificates provided	4 (5886 bytes)
Chain issues	**Incorrect order, Contains anchor**

#2

Subject	AddTrust External CA Root In trust store Fingerprint SHA256: 687fa451382278fff0c8b11f8d43d576671c6eb2bceab413fb83d965d06d2ff2 Pin SHA256: ICppFqbkrlJ3EcVFAkeip0+44VaoJUymbnOaEUk7tEU=
Valid until	Sat, 30 May 2020 10:48:38 UTC (expires in 1 year and 3 months)
Key	RSA 2048 bits (e 65537)
Issuer	AddTrust External CA Root Self-signed
Signature algorithm	SHA1withRSA Weak, but no impact on root certificate

#3

Subject	COMODO RSA Certification Authority Fingerprint SHA256: 4f32d5dc00f715250abcc486511e37f501a899deb3bf7ea8adbbd3aef1c412da Pin SHA256: grX4Ta9HpZx6tSHkmCrvpApTQGo67CYDnvprLg5yRME=
Valid until	Sat, 30 May 2020 10:48:38 UTC (expires in 1 year and 3 months)
Key	RSA 4096 bits (e 65537)
Issuer	AddTrust External CA Root
Signature algorithm	SHA384withRSA

#4

Subject	COMODO RSA Organization Validation Secure Server CA Fingerprint SHA256: 111006378afbe8e99bb02ba87390ca429fca2773f74d7f7eb5744f5ddf68014b Pin SHA256: EgNpQkIEUNXn9Nl6RoIOC532j1g5+EFw0ZpLxxJq9Ms=
Valid until	Sun, 11 Feb 2029 23:59:59 UTC (expires in 9 years and 11 months)
Key	RSA 2048 bits (e 65537)
Issuer	COMODO RSA Certification Authority
Signature algorithm	SHA384withRSA

Certification Paths

Click here to expand

Certificate #2: RSA 2048 bits (SHA256withRSA) No SNI

Server Key and Certificate #1

Subject	incapsula.com Fingerprint SHA256: 371617fb464af8d88eaaeca87011240d2825a8f874c478798adf45efbae42ad9 Pin SHA256: 5vshpd/JTdkhSBT3SC2JgUlR4n9CzX6G/ob2tkHrXW8=
Common names	incapsula.com
Alternative names	incapsula.com *.agweb.com *.amanonlinebanking.com *.babynes.com *.badcreditmortgagesapproved.ca *.buildamotor.com *.callswithoutwalls.com *.capotrade.com *.carrefour.es *.ciginsurance.com *.cysgroup.com *.domlive.org *.finance.totogaming.am *.fr.purina.ca *.geaviation.com *.goodsmokeshop.com *.hpoption.com *.itor.co.il *.jeu-pizza-buitoni.croquonslavie.fr *.leopardsolutions.com *.listenernetwork.com *.magazaportal.gen.tr *.mediacorp.sg *.myfinancialportfolio.co.uk *.paginasamarillas.es *.poliformaustralia.com.au *.programcertificationformula.com *.rwmanila.com *.vernay.com *.vz.altidev.net agweb.com amanonlinebanking.com babynes.com badcreditmortgagesapproved.ca buildamotor.com callswithoutwalls.com capotrade.com carrefour.es ciginsurance.com cysgroup.com domlive.org finance.totogaming.am fr.purina.ca goodsmokeshop.com grip-dev.ec.ge.com jeu-pizza-buitoni.croquonslavie.fr leopardsolutions.com listenernetwork.com magazaportal.gen.tr myfinancialportfolio.co.uk personal.metrobankonline.co.uk poliformaustralia.com.au programcertificationformula.com rwmanila.com stage.economist.com vernay.com **MISMATCH**
Serial Number	384e1cfe253ed3f0ea8440777bd5f97c
Valid from	Fri, 21 Dec 2018 00:00:00 UTC
Valid until	Mon, 07 Oct 2019 23:59:59 UTC (expires in 7 months and 19 days)
Key	RSA 2048 bits (e 65537)
Weak key (Debian)	No
Issuer	COMODO RSA Domain Validation Secure Server CA AIA: http://crt.comodoca.com/COMODORSADomainValidationSecureServerCA.crt

Server Key and Certificate #1

Signature algorithm	SHA256withRSA
Extended Validation	No
Certificate Transparency	Yes (certificate)
OCSP Must Staple	No
Revocation information	CRL, OCSP CRL: http://crl.comodoca.com/COMODORSADomainValidationSecureServerCA.crl OCSP: http://ocsp.comodoca.com
Revocation status	Good (not revoked)
Trusted	No **NOT TRUSTED** Mozilla Apple Android Java Windows

Additional Certificates (if supplied)

Certificates provided	4 (6835 bytes)
Chain issues	Contains anchor

#2

Subject	COMODO RSA Domain Validation Secure Server CA Fingerprint SHA256: 02ab57e4e67a0cb48dd2ff34830e8ac40f4476fb08ca6be3f5cd846f646840f0 Pin SHA256: klO23nT2ehFDXCfx3eHTDRESMz3asj1muO+4aIdjiuY=
Valid until	Sun, 11 Feb 2029 23:59:59 UTC (expires in 9 years and 11 months)
Key	RSA 2048 bits (e 65537)
Issuer	COMODO RSA Certification Authority
Signature algorithm	SHA384withRSA

#3

Subject	COMODO RSA Certification Authority Fingerprint SHA256: 4f32d5dc00f715250abcc486511e37f501a899deb3bf7ea8adbbd3aef1c412da Pin SHA256: grX4Ta9HpZx6tSHkmCrvpApTQGo67CYDnvprLg5yRME=
Valid until	Sat, 30 May 2020 10:48:38 UTC (expires in 1 year and 3 months)

Additional Certificates (if supplied)

Key	RSA 4096 bits (e 65537)
Issuer	AddTrust External CA Root
Signature algorithm	SHA384withRSA

#4

Subject	AddTrust External CA Root In trust store Fingerprint SHA256: 687fa451382278fff0c8b11f8d43d576671c6eb2bceab413fb83d965d06d2ff2 Pin SHA256: ICppFqbkrlJ3EcVFAkeip0+44VaoJUymbnOaEUk7tEU=
Valid until	Sat, 30 May 2020 10:48:38 UTC (expires in 1 year and 3 months)
Key	RSA 2048 bits (e 65537)
Issuer	AddTrust External CA Root Self-signed
Signature algorithm	SHA1withRSA Weak, but no impact on root certificate

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

Protocols

SSL 2	No

For TLS 1.3 tests, we only support RFC 8446.

Cipher Suites

TLS 1.3 (suites in server-preferred order)

TLS_AES_128_GCM_SHA256 (0x1301)	ECDH secp256r1 (eq. 3072 bits RSA) FS	128
TLS_CHACHA20_POLY1305_SHA256 (0x1303)	ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_AES_256_GCM_SHA384 (0x1302)	ECDH secp256r1 (eq. 3072 bits RSA) FS	256

TLS 1.2 (suites in server-preferred order)

TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH secp256r1 (eq. 3072 bits RSA) FS	128
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH secp256r1 (eq. 3072 bits RSA) FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH secp256r1 (eq. 3072 bits RSA) FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp256r1 (eq. 3072 bits RSA) FS	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c) **WEAK**		128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x9d) **WEAK**		256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c) **WEAK**		128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d) **WEAK**		256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f) **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_CAMELLIA_128_CBC_SHA (0x41) **WEAK**		128

Handshake Simulation

Handshake Simulation

Android 4.4.2	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	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 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
BingPreview Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Chrome 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Chrome 69 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Chrome 70 / Win 10	-	TLS 1.3	TLS_AES_128_GCM_SHA256	ECDH secp256r1 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 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Firefox 49 / XP SP3	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Firefox 62 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Googlebot Feb 2018	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
IE 11 / Win 7 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1 FS
IE 11 / Win 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 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_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1 FS
IE 11 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Edge 15 / Win 10 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Edge 13 / Win Phone 10 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Java 8u161	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
OpenSSL 1.0.1l R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
OpenSSL 1.0.2e R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	ECDH secp256r1 FS
Safari 6 / iOS 6.0.1	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1 FS
Safari 7 / iOS 7.1 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1 FS
Safari 7 / OS X 10.9 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256	ECDH secp256r1 FS

Handshake Simulation

Safari 8 / iOS 8.4 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 ECDH secp256r1 FS
Safari 8 / OS X 10.10 R	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 ECDH secp256r1 FS
Safari 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Safari 9 / OS X 10.11 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Safari 10 / iOS 10 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Safari 10 / OS X 10.12 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Apple ATS 9 / iOS 9 R	RSA 2048 (SHA256)	TLS 1.2 > h2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Yahoo Slurp Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
YandexBot Jan 2015	RSA 2048 (SHA256)	TLS 1.2	TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 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

DROWN	No, server keys and hostname not seen elsewhere with SSLv2 **(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
BEAST attack	Mitigated server-side (more info)
POODLE (SSLv3)	No, SSL 3 not supported (more info)
POODLE (TLS)	No (more info)
Downgrade attack prevention	**Yes, TLS_FALLBACK_SCSV supported** (more info)

Protocol Details

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 h2
NPN	Yes h2 http/1.1
Session resumption (caching)	Yes
Session resumption (tickets)	Yes
OCSP stapling	**Yes**
Strict Transport Security (HSTS)	**Yes** max-age=31536000
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, DHE suites not supported
DH public server param (Ys) reuse	No, DHE suites not supported
ECDH public server param reuse	No

Protocol Details

Supported Named Groups	secp256r1
SSL 2 handshake compatibility	Yes

HTTP Requests

1 **https://www.portugal.gov.pt/** (HTTP/1.1 403 Forbidden)

Miscellaneous

Test date	Mon, 18 Feb 2019 15:56:27 UTC
Test duration	69.200 seconds
HTTP status code	403
HTTP server signature	-
Server hostname	192.230.66.192.ip.incapdns.net

SSL Report v1.32.16