Report URI

Penetration Testing Report

3756

Web Application Test

27/11/2024

Author: Jose Barrera

22 Great James Street, London, WC1N 3ES

Tel: +44 (0)161 233 0100

Web: www.pentest.co.uk















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1 Document Revision History

Name	Date	Version	Comment
Jose Barrera	21/11/2024	0.1	Initial Document
Paul Johnston	21/11/2024	0.2	QA by Senior Consultant
Jose Barrera	22/11/2024	1.0	Final Draft
Jose Barrera	27/11/2024	2.0	Final Draft v2



2 Introduction

Report URI was founded to take the pain out of monitoring security policies like CSP and other modern security features. Report URI are the best real-time monitoring platform for cutting edge web standards. Their experience, focus, and exposure allow them to take the hassle out of collecting, processing, and understanding reports, giving customers just the information they need.

Report URI have indicated the need for a repeat security test of their 'Report URI' application in order to identify vulnerabilities to attacks that could be launched across a computer network, and to provide security assurances regarding their systems. Such a test will allow Report URI to undertake remediation efforts and increase their overall security posture.

2.1 Scope & Duration

This assessment included the following phase of work:

Phase 1 – Web application assessment of Report URI application

The duration included 5 days effort (including reporting). Work commenced on 11/11/2024 and concluded on 19/11/2024.

2.2 Scenarios Included

- **Black-Box assessment** testing the web application while unauthenticated without additional information. This simulates a real-world threat posed to all Internet facing services.
- Rogue-User Scenario using credentials provided to simulate the risk as various levels of user account. This simulates the risk of a user either by choice or by being compromised attacking the system.
- White-box assessment using the source code provided.

All the tests were performed against the production environment.

2.3 Target(s)

https://report-uri.com



3 Executive Summary

Overall, the Report URI application performed well during the assessment. It demonstrated a strong performance throughout the engagement, effectively thwarting attempts by authenticated attackers to exploit vulnerabilities like SQL Injection and Cross-Site Scripting that could potentially compromise the server or application. The application also had proper user access controls in place and showed no signs of an attack surface for authorisation-based attacks.

Only low-severity issues were identified that should be resolved to add additional layers of security to the application and further harden it.

Full details of each issue as well as recommended remedial actions can be found documented in the **Technical Findings** section.

3.1 Next Steps

A complete writeup of every issue is available in the body of this report. It includes required steps to confirm and replicate each issue, along with recommended remedial actions. Pentest recommend taking time to review the findings before arranging a triage meeting to determine the order of priority for remedial work. As a rule of thumb:

 Low and Info Risk Items – Track these within a risk register and discuss remediation versus acceptance.

If recommendations within this report are followed Pentest believe that the target's security posture will improve.

3.2 Caveats

Pentest provides no warranty that the target(s) are now free from other defects. Security is an everevolving field and consultancy is based on the opinions of the consultant, their understanding of the goals of Report URI as well as their individual experience.

The findings of this project are based on a time-limited assessment and by necessity can only focus on approved targets which are in scope. An attacker would not be constrained by either time or scope limits and could circumvent controls which are impractical to assess via structured penetration testing.

To appropriately secure assets Pentest encourage a cyclical approach to assessment. Each cycle should include:

- Comprehensive Assessment where a full list of findings is produced with the widest scope possible.
- Focused Verification Testing where solutions to the initial assessment's findings are verified.

Depending on how important the target is to the concerns of Report URI, Pentest recommend repeating the cycle every 6-months or 12-months at least.



3.3 Risk Categories & Rationales

Pentest use a simple risk categorisation of each vulnerability to focus the triage process at the risks which truly matter. The Common Vulnerability Scoring System (CVSS) is an industry standard formula. It generates a risk score between 0.0 and 10.0.

The table below explains the risk categories and demonstrates rule-of-thumb equivalency with CVSS scores:

Risk Category	CVSS Score	Rationales
Critical	8.1 – 10.0	Poses a severe risk which is easy to exploit. Begin the process of remediating immediately after the issue has been presented.
High	6.1 – 8.0	Poses a significant risk and can be exploited. Address these as soon as possible after any critical risks have been remediated.
Medium	4.1 – 6.0	Poses an important risk but may be difficult to exploit. Pentest recommends remedial work within 3 months of discovery.
Low	2.1 – 4.0	Poses a minor risk or may be exceedingly difficult to exploit. Address these over the long-term during testing cycles.
Info	0.0 – 2.0	Loss of sensitive information, or a discussion point. These are not directly exploitable but may aid an attacker. Remediate these to create a true defence-in-depth security posture.

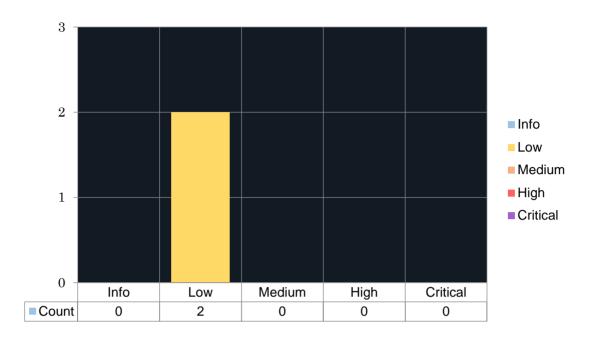
CVSS is not applicable to all risks. For example, it is incapable of capturing the risk of a "flat network design". Experience has told us that this is a "high" risk in most cases.

For this reason, the reader may find vulnerabilities which have no CVSS rating in our reports.

We endeavour to provide the reason for omitting the risk score when that is the case, and to provide CVSS by default in all applicable cases.



3.4 Visual Summary





4 Recommended Actions

ID	Vuln Title	Recommended Action	Pentest Risk Category	cvss
1	<u>Vulnerabilities in Outdated</u> <u>Dependencies Detected</u>	Upgrade the affected libraries to the latest supported version.	Low	3.1/Low
2	No Anti-Automation Protection	Consider fine tuning CloudFlare Bot protections on vulnerable functions.	Low	3.1/Low



5 Technical Findings

5.1 Vulnerabilities in Outdated Dependencies Detected

5.1.1 Background

Most software products are developed using APIs or libraries provided by third parties. Doing so reduces development time and cost and feeds into the "why re-invent the wheel?" philosophy. Once a component has been integrated into an application it must be upgraded regularly to guard against bugs and remove publicly known vulnerabilities.

Failure to do so can mean that the application itself is at risk of exploitation due to weaknesses that exist in the supporting dependencies. This risk has been captured by the OWASP top 10 2021 project as category A06 labelled "Vulnerable and Outdated Components" defined at reference [1].

5.1.2 Details

During the assessment a few supporting JavaScript libraries were identified which contained publicly disclosed vulnerabilities such as Cross-Site Scripting.

The table below identifies the location within the application and the related CVE associated with directly related vulnerabilities.

Component version	Location implemented	Vulnerability	CVE
Bootstrap 3.4.1	https://cdn.report- uri.com/libs/twitter- bootstrap/3.4.1/js/bootstra p.min.js	Cross-Site Scripting	CVE-2024-6484
Select 4.2	https://cdn.report- uri.com/libs/select2/3.5.2/ select2.min.js	Cross-Site Scripting	CVE-2016-10744

Additionally, Bootstrap version 3.4.1 currently reached EOL (end of life) and no longer receive any updates from the vendor, which exacerbates this issue.

More information about Bootstrap's version 3 reaching EOL is available in reference [4].



5.1.3 Risk Analysis

Pentest Risk Category	Low
cvss	3.1/Low AV:N/AC:H/PR:H/UI:R/S:U/C:L/I:N/A:L
Explanation	The risk associated with this issue was considered low, as no areas of the application were found to reflect user inputs without appropriate HTML encoding. Moreover, the application implemented a strict CSP. The issue is raised to encourage updating the affected libraries and is not believed to constitute an immediate threat to Report URI or its users.

5.1.4 Recommendation

The immediate recommendation is to download and integrate the latest supported versions of each outdated dependency.

Pentest understands that this would be a significant undertaking for radius, due to changes in the underlying APIs and updated versions of the dependencies. As such, to ensure that updated components do not affect the user experience, a full User Acceptance Testing (UAT) would need to be carried out.

The advice above would triage the initial problem only and would not prevent the situation from recurring. The long-term solution is to modify the Software Development Life Cycle (SDLC) to ensure that dependencies are regularly updated. OWASP provides a free tool called "dependency-check" (see reference [2]) which can be integrated into most build processes.

5.1.5 References

[1]	OWASP Top 10: A06_2021 - Vulnerable and Outdated Components
[2]	OWASP: OWASP Dependency Check
[3]	TaringAmberini: Ready to use Java Dependencies Vulnerability Checker
[4]	GitHub – Bootstrap version 4 issue

5.1.6 Affected Item(s)

https://report-uri.com



5.2 No Anti-Automation Protection

5.2.1 Background

Web applications are subjected to unwanted automated usage. Usually, these events occur due to an improper usage of an existing functionality rather than the exploitation of vulnerabilities. Also, excessive misuse is commonly mistakenly reported as application Denial-of-Service (DoS) like HTTP-flooding, when in fact the DoS is a side-effect instead of the primary intent.

Insufficient anti-automation occurs when a web application permits an attacker to automate a process that was originally designed to be performed only in a manual fashion, i.e. by a human web user

5.2.2 Details

The application did implement anti-automation measures to protect against excessive automated requests. However, as the CloudFlare Bot Management was disabled for the test, remote attackers were able to send many requests to access or generate data.

Although the application used CSRF tokens and validated them properly, it was possible to reuse the CSRF token because a non-standard client (Burp Suite) was used during testing. This client enabled manual manipulation and replay of HTTP requests, bypassing the typical flow of the application and allowing automation.

Below is one request issued by the application to create a team:

```
POST /team/create_team/ HTTP/2
Host: report-uri.com
Cookie: _nss=1; __cf_bm=lYfPlQOpjdweCOp5pHFLAAvVIvld91kYWSuu5nMGg5M-1731935807-1.0.1.1-
ne_YxFLihgBqNOL5ndq8LwzKFHp5eFT7JSLlzYTJQtjdfQT8KX1YfX8kyMGMlnqzAE8eAKd90S.lm2x0AJ0KlA;
__Host-report_uri_csrf=ec6c3b4d5aa5e5f8ffb26bd9e5f33c83; __Host-
report_uri_sess=c3k0adha2690t2qlqnspbbtr30
[...]
Referer: https://report-uri.com/account/teams/

csrf_token=ec6c3b4d5aa5e5f8ffb26bd9e5f33c83&name=Test%22%3E%3Cscript%3Ealert%281%29%3C%2Fscript
```

The following image shows the teams that were created by the consultant:

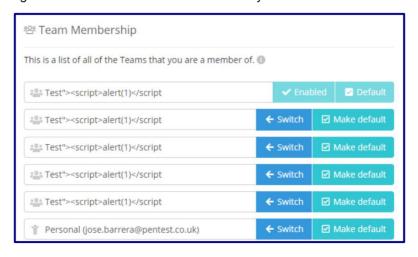


Figure 1 – CSRF token reuse



5.2.3 Risk Analysis

Pentest Risk Category	Low
cvss	3.1/Low
	AV:N/AC:H/PR:L/UI:N/S:U/C:N/I:N/A:L
Explanation	The risk rating has been set to "Low" since testing was conducted with Cloudflare Bot Management disabled. However, it is unlikely that Cloudflare Bot Management would have prevented this brute-force attempt under normal conditions, as only 6 requests were issued within a short time frame. The limited request volume would likely not trigger typical rate-limiting or anomaly detection mechanisms, making this vulnerability feasible for exploitation in scenarios with similar traffic patterns.

5.2.4 Recommendation

Pentest recommends implementing anti-automation controls on the affected forms. By significantly delaying the success of a password-guessing attack, it provides an effective deterrent to attackers.

Consider the following options to reduce the effectiveness of automated bot attacks:

- CAPTCHA can help prevent automated bots by requiring manual interactions from a human.
 For example, Google's ReCAPTCHA asks the user to identify an object (such as a car or traffic light) from a photo.
- Rate-Limiting Requests simply reduces the number of requests an attacker can be made within reasonable time period to the server.

5.2.5 References

[1] OWASP: Automated Threats to Web Applications

5.2.6 Affected Item(s)

https://report-uri.com



6 Additional Information

6.1 WHOIS Database

The WHOIS database stores information about the individual or organisation who owns and manages a domain or IP address range. Attackers will review WHOIS entries trying to find useful information such as names and contact details for employees.

Best practices state that generic contact details should be used such as "whois@domain.com" rather than providing the name of a member of staff.

6.1.1 Entry for Domain: report-uri.com

```
Domain Name: REPORT-URI.COM
  Registry Domain ID: 1651365076_DOMAIN COM-VRSN
   Registrar WHOIS Server: whois.namecheap.com
  Registrar URL: http://www.namecheap.com
  Updated Date: 2024-03-18T08:02:32Z
  Creation Date: 2011-04-17T11:55:31Z
  Registry Expiry Date: 2025-04-17T11:55:31Z
  Registrar: NameCheap, Inc.
  Registrar IANA ID: 1068
  Registrar Abuse Contact Email: abuse@namecheap.com
  Registrar Abuse Contact Phone: +1.6613102107
  Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
  Name Server: CARL.NS.CLOUDFLARE.COM
  Name Server: COCO.NS.CLOUDFLARE.COM
  DNSSEC: signedDelegation
  DNSSEC DS Data: 2371 13 2
B86DC8BE786CAFA5B1D92F52AA23CD9B62AF70DBE9D907AC61A1F9469513B5F6
  URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2024-11-21T10:13:42Z <<<
```

6.1.2 Entry for IP Address Range: 104.16.0.0 - 104.31.255.255

```
NetRange:
                     104.16.0.0 - 104.31.255.255
NetName: CLOUDFLARENET
NetHandle: NET-104-16-0-0-1
Parent: NET-104-16-0-0-1
Parent: NET104 (NET-104-0-0-0)
NetType: Direct Allocation
OriginAS: AS13335
Organization: Cloudflare, Inc. (CLOUD14)
RegDate: 2014-03-28
Updated: 2024-09-04
Comment: All Cloudfl
                       All Cloudflare abuse reporting can be done via
https://www.cloudflare.com/abuse
Comment: Geofeed: https://api.cloudflare.com/local-ip-ranges.csv
Ref: https://rdap.arin.net/registry/ip/104.16.0.0
OrgName: Cloudflare, Inc. OrgId: CLOUD14
OrgId:
Address:
                      101 Townsend Street
                       San Francisco
Citv:
StateProv:
                      CA
                      94107
PostalCode:
Country:
                       US
RegDate:
                      2010-07-09
Updated:
                       2021-07-01
                      https://rdap.arin.net/registry/entity/CLOUD14
OrgRoutingHandle: CLOUD146-ARIN
OrgRoutingName: Cloudflare-NOC
OrgRoutingPhone: +1-650-319-8930
```



OrgRoutingEmail: noc@cloudflare.com

OrgRoutingRef: https://rdap.arin.net/registry/entity/CLOUD146-ARIN

OrgTechHandle: ADMIN2521-ARIN

OrgTechName: Admin
OrgTechPhone: +1-650-319-8930
OrgTechEmail: rir@cloudflare.com

OrgTechRef: https://rdap.arin.net/registry/entity/ADMIN2521-ARIN

OrgAbuseHandle: ABUSE2916-ARIN

OrgAbuseName: Abuse
OrgAbusePhone: +1-650-319-8930
OrgAbuseEmail: abuse@cloudflare.com

OrgAbuseRef: https://rdap.arin.net/registry/entity/ABUSE2916-ARIN

OrgNOCHandle: CLOUD146-ARIN OrgNOCName: Cloudflare-NOC
OrgNOCPhone: +1-650-319-8930
OrgNOCEmail: noc@cloudflare.com

OrgNOCRef: https://rdap.arin.net/registry/entity/CLOUD146-ARIN

RTechHandle: ADMIN2521-ARIN

RTechName: Admin
RTechPhone: +1-650-319-8930
RTechEmail: rir@cloudflare.com
RTechRef: https://rdap.arin.net/registry/entity/ADMIN2521-ARIN

RNOCHandle: NOC11962-ARIN

RNOCName: NOC
RNOCPhone: +1-650-319-8930
RNOCEmail: noc@cloudflare.com
RNOCRef: https://rdap.arin.net/registry/entity/NOC11962-ARIN

RAbuseHandle: ABUSE2916-ARIN

RAbuseName: Abuse

RAbusePhone: +1-650-319-8930
RAbuseEmail: abuse@cloudflare.com
RAbuseRef: https://rdap.arin.net/registry/entity/ABUSE2916-ARIN



6.2 Port Scan Results

To offer a service to other computers, a "port" is made available. Each open port creates a communication channel which can pose a security risk that an attacker can enumerate information from, or at worst exploit to compromise the target.

Best practices state that only the minimum number of open ports should be enabled to reduce the attack surface.

6.2.1 Target: 104.17.215.66 – report-uri.com

Port	State	Service	Product	Version	Extra
80/tcp open http		cloudflare	Unknown	Unknown	
443/tcp	open	https	cloudflare	Unknown	Unknown
2052/tcp	open	clearvisn	Unknown	Unknown	Unknown
2053/tcp	open	http	nginx	Unknown	Unknown
2082/tcp	open	infowave	Unknown	Unknown	Unknown
2083/tcp	open	http	nginx	Unknown	Unknown
2086/tcp open gnunet		Unknown	Unknown	Unknown	
2087/tcp open http		nginx	Unknown	Unknown	
2095/tcp open nbx-ser		Unknown	Unknown	Unknown	
2096/tcp	open	http	nginx	Unknown	Unknown
8080/tcp open http-proxy		cloudflare	Unknown	Unknown	
8443/tcp open https-alt		cloudflare	Unknown	Unknown	
8880/tcp open cddbp-alt l		Unknown	Unknown	Unknown	



6.3 SSL/TLS Assessment

Transport Layer Security (TLS) is used to ensure the confidentiality and integrity of traffic as it transits a network. It is also used to give certainty of the identity of the client, server, or both. Insecure configurations are common. The following sub-sections show information gathered using TestSSL.

6.3.1 TestSSL Results for:

```
/testssl.sh --openssl bin/openssl.Linux.x86 64 --quiet --wide --log 104.17.215.66
 Start 2024-11-19 11:20:42
                                   -->> 104.17.215.66:443 (104.17.215.66) <<--
 rDNS (104.17.215.66):
 Service detected:
                          нттр
 Testing protocols via sockets except NPN+ALPN
 SSLv2
           not offered (OK)
           not offered (OK)
 SSLv3
 TLS 1
 TLS 1.1 not offered OK
 TLS 1.2
            offered (OK)
 TLS 1.3 offered (OK): final NPN/SPDY h2, http/1.1 (advertised)
 ALPN/HTTP2 h2, http/1.1 (offered)
 Testing cipher categories
 NULL ciphers (no encryption) not offered (OK)
Anonymous NULL Ciphers (no authentication) not offered (OK)
Export ciphers (w/o ADH+NULL) not offered (OK)
 LOW: 64 Bit + DES, RC[2,4], MD5 (w/o export) not offered (OK)
Triple DES Ciphers / IDEA not offered
 Triple DES Ciphers / IDEA
 Obsoleted CBC ciphers (AES, ARIA etc.)
Strong encryption (AES)
 Obsoleted CBC ciphers (AES, ARIA etc.) offered Strong encryption (AEAD ciphers) with no FS offered (OK)
 Forward Secrecy strong encryption (AEAD ciphers) offered (OK)
 Testing server's cipher preferences
Hexcode Cipher Suite Name (OpenSSL) KeyExch. Encryption Bits Cipher Suite
Name (IANA/RFC)
SSLv2
SST<sub>w</sub>3
TLSv1
TLSv1.1
TLSv1.2 (server order -- server prioritizes ChaCha ciphers when preferred by clients)
 xc02b ECDHE-ECDSA-AES128-GCM-SHA256 ECDH 253 AESGCM
TLS ECDHE ECDSA WITH AES 128 GCM SHA256
                                             ECDH 253 ChaCha20 256
 xcca9 ECDHE-ECDSA-CHACHA20-POLY1305
TLS ECDHE ECDSA WITH CHACHA20 POLY1305 SHA256
                                              ECDH 253 AES
         ECDHE-ECDSA-AES128-SHA
                                                                       128
TLS ECDHE ECDSA WITH AES 128 CBC SHA
 xc02c ECDHE-ECDSA-AES256-GCM-SHA384
                                             ECDH 253 AESGCM
                                                                       2.56
TLS ECDHE ECDSA WITH AES 256 GCM SHA384
 xc00a ECDHE-ECDSA-AES256-SHA
                                             ECDH 253 AES
                                                                       256
TLS ECDHE ECDSA WITH AES 256 CBC SHA
                                             ECDH 253 AES
 xc023 ECDHE-ECDSA-AES128-SHA256
                                                                       128
TLS ECDHE ECDSA WITH AES 128 CBC SHA256
 xc024 ECDHE-ECDSA-AES256-SHA384
                                              ECDH 253 AES
                                                                       256
TLS ECDHE ECDSA WITH AES 256 CBC SHA384
```



xc02f ECDHE-RSA-AES128-GCM-SHA256				
TLS ECDHE RSA WITH AES 128 GCM SHA256	ECDH 253	AESGCM	128	
xcca8 ECDHE-RSA-CHACHA20-POLY1305		ChaCha20	256	
TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA2 xc013	56 ECDH 253	AES	128	
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA x9c AES128-GCM-SHA256	DCA	AESGCM	128	
TLS_RSA_WITH_AES_128_GCM_SHA256	KSA	ALSGUM	128	
x2f AES128-SHA TLS RSA WITH AES 128 CBC SHA	RSA	AES	128	
xc030 ECDHE-RSA-AES256-GCM-SHA384	ECDH 253	AESGCM	256	
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 xc014 ECDHE-RSA-AES256-SHA	ECDH 253	AES	256	
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA x9d	RSA	AESGCM	256	
TLS_RSA_WITH_AES_256_GCM_SHA384 x35		AES		
TLS_RSA_WITH_AES_256_CBC_SHA	NOA	AES	230	
xC027 ECDHE-RSA-AES128-SHA256 TLS ECDHE RSA WITH AES 128 CBC SHA256	ECDH 253	AES	128	
x3c AES128-SHA256	RSA	AES	128	
TLS_RSA_WITH_AES_128_CBC_SHA256 xc028	ECDH 253	AES	256	
x3d AES256-SHA256	RSA	AES	256	
TLS_RSA_WITH_AES_256_CBC_SHA256 TLSv1.3 (no server order, thus listed by	strongth)			
	ECDH 253	AESGCM	256	
x1303 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256	ECDH 253	ChaCha20	256	
x1301 TLS_AES_128_GCM_SHA256 TLS AES 128 GCM_SHA256	ECDH 253	AESGCM	128	
Has server cipher order? yes (OK) Negotiated protocol TLSv1.3			(0.5.5.1.0	
Has server cipher order? yes (OK) Negotiated protocol TLSv1.3 Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or	_GCM_SHA384	, 253 bit ECI		
Negotiated protocol TLSv1.3 Negotiated cipher TLS_AES_256	_GCM_SHA384	, 253 bit ECI	ion/Encry	ption, 3DES, RC4
Negotiated protocol TLSv1.3 Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or	_GCM_SHA384 mitting Nul ent/browser KeyExch.	, 253 bit ECI l Authenticat support is i Encryption	ion/Encry	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLSv1.3 TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipherscode Cipher Suite Name (OpenSSL) Name (IANA/RFC)	_GCM_SHA384 mitting Nul ent/browser KeyExch.	, 253 bit ECF 1 Authenticat support is i Encryption	mportant	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol TLSv1.3 Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clicked) Hexcode Cipher Suite Name (OpenSSL) Name (IANA/RFC) x1302 TLS_AES_256_GCM_SHA384 TLS AES 256 GCM_SHA384	_GCM_SHA384 mitting Nul ent/browser KeyExch	, 253 bit ECI 1 Authenticat support is i Encryption AESGCM	mportant : Bits	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLSv1.3 TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC) x1302 TLS_AES_256_GCM_SHA384	_GCM_SHA384 mitting Nul ent/browser KeyExch	, 253 bit ECI 1 Authenticat support is i Encryption AESGCM	mportant : Bits	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLSV1.3 TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC) x1302 TLS_AES_256_GCM_SHA384 TLS_AES_256_GCM_SHA384 x1303 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256 xc030 ECDHE-RSA-AES256-GCM_SHA384	_GCM_SHA384 mitting Nul ent/browser KeyExch	, 253 bit ECI 1 Authenticat support is i Encryption AESGCM	mportant : Bits	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLSv1.3 TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK), ciphers follow (cliphers) Hexcode Cipher Suite Name (OpenSSL) Name (IANA/RFC) x1302 TLS_AES_256_GCM_SHA384 TLS_AES_256_GCM_SHA384 x1303 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256 xc030 ECDHE_RSA_AES256-GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 xc02c ECDHE_ECDSA_AES256-GCM_SHA384	_GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253	, 253 bit ECI l Authenticat support is i Encryption AESGCM ChaCha20	mportant Bits 256	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLSv1.3 TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK), ciphers follow (cliphers) Hexcode Cipher Suite Name (OpenSSL) Name (IANA/RFC) x1302 TLS_AES_256_GCM_SHA384 TLS_AES_256_GCM_SHA384 x1303 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256 xc030 ECDHE_RSA_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 xc02c ECDHE_ECDSA_AES_256_GCM_SHA384 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 xc02c ECDHE_RSA_AES_256_SCM_SHA384 xc02c ECDHE_RSA_AES_256_SCM_SHA384	_GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256	, 253 bit ECR 1 Authenticat support is i Encryption AESGCM ChaCha20 AESGCM	mportant : Bits 256 256	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (cliphers) Hexcode Cipher Suite Name (OpenSSL) Name (IANA/RFC)	_GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256 ECDH 256	, 253 bit ECE 1 Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AESGCM	mportant : Bits	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLSv1.3 TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC) x1302 TLS_AES_256_GCM_SHA384 TLS_AES_256_GCM_SHA384 x1303 TLS_CHACHA20_POLY1305_SHA256 xc030 ECDHE_RSA_AES256-GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 xc02c ECDHE-ECDSA_AES256-GCM_SHA384 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 xc028 ECDHE-RSA_AES256-SHA384 TLS_ECDHE_RSA_WITH_AES_256_CCM_SHA384 xc028 ECDHE-RSA_AES256-SHA384 TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 xc024 ECDHE-ECDSA_AES256-SHA384 TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 xc024 ECDHE-ECDSA_AES256-SHA384 TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 xc024 ECDHE-ECDSA_AES256-SHA	GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256 ECDH 256 ECDH 256	, 253 bit ECR l Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AESGCM AESGCM	mportant : Bits	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK), ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC) ***1302 TLS_AES_256_GCM_SHA384 ***1303 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256 ***xc030 ECDHE_RSA_AES256_GCM_SHA384 ***xc030 ECDHE_RSA_AES256_GCM_SHA384 ***xc02c ECDHE_ECDSA_AES256_GCM_SHA384 ***xc02c ECDHE_ECDSA_AES256_GCM_SHA384 ***xc02c ECDHE_ECDSA_AES256_SCM_SHA384 ***xc02c ECDHE_ECDSA_AES256_SHA384 ***xc02d ECDHE_RSA_WITH_AES_256_CBC_SHA384 ***xc02d ECDHE_ECDSA_AES256_SHA384 ***xc02d ECDHE_ECDSA_AES256_SHA384 ***xc02d ECDHE_ECDSA_AES256_SHA384 ***xc02d ECDHE_ECDSA_AES256_SHA384 ***xc01d ECDHE_RSA_AES256_SHA ***TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ***xc01d ECDHE_RSA_AES256_SHA ***TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 ***xc01d ECDHE_RSA_AES256_SHA	GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 256 ECDH 256 ECDH 256 ECDH 256	, 253 bit ECR l Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AESGCM AESGCM AESGCM AESGCM	mportant : Bits : 256	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC) **1302 TLS_AES_256_GCM_SHA384 **1303 TLS_CHACHA20_POLY1305_SHA256 TLS_CHACHA20_POLY1305_SHA256 **12. CHACHA20_POLY1305_SHA256 **12. CHACHA20_POLY1305_SHA256 **1303 ECDHE_RSA_AES256_GCM_SHA384 **1303 TLS_CHACHA20_POLY1305_SHA256 **12. CHACHA20_POLY1305_SHA256 **1303 ECDHE_RSA_AES256_GCM_SHA384 **1303 ECDHE_RSA_AES256_GCM_SHA384 **1303 ECDHE_ECDSA_AES256_GCM_SHA384 **1303 TLS_CHACHA20_POLY1305_SHA256 **1304 ECDHE_ECDSA_AES256_SHA384 **1305 ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 **1306 ECDHE_ECDSA_AES256_SHA384 **1307 ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 **1308 ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 **1309 ECDHE_ECDSA_AES256_SHA **1309 ECDHE_ECDSA_AES256_SHA **1300 ECDHE_ECDSA_AES256_SHA **1300 ECDHE_ECDSA_AES256_SHA **1300 ECDHE_ECDSA_AES256_SHA **1300 ECDHE_ECDSA_WITH_AES_256_CBC_SHA **1300 ECDHE_ECDSA_CHACHA20_POLY1305	GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256	, 253 bit ECR l Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AESGCM AESGCM AES	mportant : Bits 256 256 256 256 256 256 256	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (cliphers of the code (The Suite Name (OpenSSL)) Name (IANA/RFC)	GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256	, 253 bit ECE l Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AESGCM AES AES AES	mportant : Bits	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC) ***X1302*** TLS_AES_256** GCM_SHA384 TLS_AES_256** GCM_SHA384 ***X1303*** TLS_CHACHA20 POLY1305_SHA256 ***X030** ECDHE-RSA-AES256-GCM-SHA384 ***X1303*** TLS_CHACHA20 POLY1305_SHA256 ***X030*** ECDHE-RSA-AES256-GCM-SHA384 ***X030*** ECDHE-RSA-AES256-GCM_SHA384 ***X020*** ECDHE-ECDSA-AES256-GCM_SHA384 ***X020*** ECDHE-RSA-AES256-SHA384 ***X020*** ECDHE-RSA-AES256-SHA384 ***X020*** ECDHE-RSA-AES256-SHA384 ***X020*** ECDHE-ECDSA-AES256-SHA384 ***X020*** ECDHE-ECDSA-AES256-SHA384 ***X014*** ECDHE-ECDSA-AES256-SHA ***TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ***X014*** ECDHE-ECDSA-AES256-SHA ***TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ***X014*** ECDHE-RSA-AES256-SHA ***TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA ***X000*** ECDHE-ECDSA-CHACHA20-POLY1305 ***TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA2*** CCa8*** ECDHE-RSA-CHACHA20-POLY1305_SHA2*** CCa8*** ECDHE-RSA-CHACHA20-POLY1305_SHA2*** TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA2*** TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA2	GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256	, 253 bit ECE l Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AES AES AES AES AES ChaCha20	mportant : Bits 256 256 256 256 256 256 256 256 256 25	ption, 3DES, RC4 here) Cipher Suite
Negotiated protocol Negotiated cipher TLS_AES_256 Testing robust forward secrecy (FS) or FS is offered (OK) , ciphers follow (clipher Suite Name (OpenSSL) Name (IANA/RFC)	GCM_SHA384 mitting Nul ent/browser KeyExch. ECDH 253 ECDH 253 ECDH 256	, 253 bit ECD 1 Authenticat support is i Encryption AESGCM ChaCha20 AESGCM AESGCM AES AES AES AES ChaCha20 ChaCha20	mportant : Bits 256 256 256 256 256 256 256 256 256 25	ption, 3DES, RC4 here) Cipher Suite

ECDH 256 AESGCM

128

TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 xc02b ECDHE-ECDSA-AES128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256



```
ECDHE-RSA-AES128-SHA256
                                           ECDH 256 AES
                                                                   128
TLS ECDHE RSA WITH AES 128 CBC SHA256 xc023 ECDHE-ECDSA-AES128-SHA256
                                                                   128
                                           ECDH 256
                                                     AES
TLS ECDHE ECDSA WITH AES 128 CBC SHA256
 xc013 ECDHE-RSA-AES128-SHA
                                           ECDH 256
                                                     AES
                                                                   128
TLS ECDHE RSA WITH AES 128 CBC SHA
       ECDHE-ECDSA-AES128-SHA
xc009
                                           ECDH 256 AES
                                                                   128
TLS ECDHE ECDSA WITH AES 128 CBC SHA
                           prime256v1 secp384r1 secp521r1 X25519
Elliptic curves offered:
 Testing server defaults (Server Hello)
TLS extensions (standard)
                              "renegotiation info/#65281" "EC point formats/#11" "session
ticket/#35" "status request/#5"
                              "next protocol/#13172" "signed certificate timestamps/#18"
"key share/#51" "supported versions/#43"
                              "extended master secret/#23" "application layer protocol
negotiation/#16" "compress certificate/#27"
Session Ticket RFC 5077 h\bar{l}nt 64800 seconds, session tickets keys seems to be rotated <
daily
SSL Session ID support
                              ves
Session Resumption
                              Tickets: yes, ID: no
TLS clock skew
                              Random values, no fingerprinting possible
 Certificate Compression
                              0002/Brotli
Client Authentication
                              none
  Server Certificate \#1 (in response to request w/o SNI)
   Signature Algorithm SHA256 with RSA
   Server key size
                                RSA 2048 bits (exponent is 65537)
   Server key usage
                                Digital Signature, Key Encipherment
   Server extended key usage TLS Web Server Authentication, TLS Web Client
Authentication
   Serial
                                0366B5349812310CEE06E134DFC27D918DAF (OK: length 18)
                                SHA1 59EFE1175AC1D020DF5DD7F4EC507F7510F22F50
   Fingerprints
                                SHA256
C60594A5D59820E4BBA32177F49884AE6AB13B6CF7F680BC84DB9C9458CD8048
   Common Name (CN)
                          report-uri.com
   subjectAltName (SAN)
                                *.report-uri.com report-uri.com
   Trust (hostname)
                                certificate does not match supplied URI
   Chain of trust
                                Οk
   EV cert (experimental)
                                no
   Certificate Validity (UTC)
                                86 >= 30 days (2024-11-16 06:24 --> 2025-02-14 06:24)
   ETS/"eTLS", visibility info not present
   Certificate Revocation List --
   OCSP URI
                                http://r10.o.lencr.org
   OCSP stapling
                                offered, not revoked
   OCSP must staple extension
   DNS CAA RR (experimental)
                                not offered
   Certificate Transparency
                                yes (certificate extension)
   Certificates provided
   Tssuer
                                R10 (Let's Encrypt from US)
                                #1: ok > 40 days (2027-03-12 23:59). R10 <-- ISRG Root X1
   Intermediate cert validity
   Intermediate Bad OCSP (exp.) Ok
  Server Certificate #2 (in response to request w/o SNI)
   Signature Algorithm
                               ECDSA with SHA384
                                EC 256 bits (curve P-256)
   Server key size
   Server key usage
                                Digital Signature
   Server extended key usage TLS Web Server Authentication, TLS Web Client
Authentication
                                04BC413080D4314D9B57B912A354A16D3D3E (OK: length 18)
   Serial
                                SHA1 F1FBA4AFC6616F3C00800F8B3277D1334537359A
   Fingerprints
                                SHA256
C4191F04B29173B1C2895A49DC2F24082B5560FC58F9C3AE5EE51C446139C893
   Common Name (CN)
                                report-uri.com
   subjectAltName (SAN)
                                *.report-uri.com report-uri.com
   Trust (hostname)
                                certificate does not match supplied URI
   Chain of trust
                                Ok
   EV cert (experimental)
                                no
   Certificate Validity (UTC) 86 >= 30 days (2024-11-16 06:24 --> 2025-02-14 06:24) ETS/"eTLS", visibility info not present
```



```
Certificate Revocation List --
                               http://e6.o.lencr.org
offered, not revoked
   OCSP URI
  OCSP stapling
   OCSP must staple extension --
  DNS CAA RR (experimental) not offered
Certificate Transparency yes (certificate extension)
   Certificates provided
                                 E6 (Let's Encrypt from US)
   Tssuer
   Intermediate cert validity #1: ok > 40 days (2027-03-12 23:59). E6 <-- ISRG Root X1
   Intermediate Bad OCSP (exp.) Ok
Testing HTTP header response @ "/"
HTTP Status Code
                               403 Forbidden
                             0 sec from localtime
HTTP clock skew
Strict Transport Security not offered
 Public Key Pinning
Server banner
                              cloudflare
Application banner
                               (none issued at "/") -- maybe better try target URL of 30x
Cookie(s)
Security headers
Reverse Proxy banner
Testing vulnerabilities
Heartbleed (CVE-2014-0160)
                                             not vulnerable (OK), no heartbeat extension
CCS (CVE-2014-0224)
                                             not vulnerable (OK)
Ticketbleed (CVE-2016-9244), experiment. not vulnerable (OK)
Secure Renegotiation (RFC 5746) supported (OK)
Secure Client-Initiated Renegotiation
CRIME, TLS (CVE-2012-4929)
BREACH (CVE-2012-2012)
BREACH (CVE-2012-2012)
BREACH (CVE-2013-3587)
                                            no gzip/deflate/compress/br HTTP compression
(OK) - only supplied "/" tested
POODLE, SSL (CVE-2014-3566)
                                            not vulnerable (OK), no SSLv3 support
TLS FALLBACK SCSV (RFC 7507)
                                            No fallback possible (OK), no protocol below TLS
1.2 offered
SWEET32 (CVE-2016-2183, CVE-2016-6329) not vulnerable (OK)
                                           not vulnerable (OK) not vulnerable on this host and port (OK)
FREAK (CVE-2015-0204)
DROWN (CVE-2016-0800, CVE-2016-0703)
                                             make sure you don't use this certificate
elsewhere with SSLv2 enabled services, see
https://search.censys.io/search?resource=hosts&virtual hosts=INCLUDE&q=C60594A5D59820E4BBA3
2177F49884AE6AB13B6CF7F680BC84DB9C9458CD8048
LOGJAM (CVE-2015-4000), experimental not vulnerable (OK): no DH EXPORT ciphers, no DH
key detected with <= TLS 1.2
BEAST (CVE-2011-3389) not vulnerable (OK), no SSL3 or TLS1 LUCKY13 (CVE-2013-0169), experimental potentially VULNERABLE, uses cipher block
chaining (CBC) ciphers with TLS. Check patches
Winshock (CVE-2014-6321), experimental not vulnerable (OK) RC4 (CVE-2013-2566, CVE-2015-2808) no RC4 ciphers detected (OK)
Running client simulations (HTTP) via sockets
                              Protocol Cipher Suite Name (OpenSSL) Forward Secrecy
Browser
_____
Android 6.0
                               TLSv1.2 ECDHE-ECDSA-AES128-GCM-SHA256
                                                                             256 bit ECDH (P-
256)
Android 7.0 (native)
                              TLSv1.2 ECDHE-ECDSA-AES128-GCM-SHA256
                                                                              256 bit ECDH (P-
Android 8.1 (native)
                              TLSv1.2 ECDHE-ECDSA-AES128-GCM-SHA256
                                                                              253 bit ECDH
(X25519)
                              TLSv1.3 TLS_AES_128_GCM_SHA256
Android 9.0 (native)
                                                                             253 bit ECDH
(X25519)
                              TLSv1.3 TLS AES 128 GCM SHA256
Android 10.0 (native)
                                                                              253 bit ECDH
(X25519)
Android 11 (native)
                              TLSv1.3 TLS AES 128 GCM SHA256
                                                                              253 bit ECDH
(X25519)
```



Android 12 (native) (X25519)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
Chrome 79 (Win 10) (X25519)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
Chrome 101 (Win 10) (X25519)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
Firefox 66 (Win 8.1/10) (X25519)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
Firefox 100 (Win 10)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
(X25519) IE 6 XP	No connec						
IE 8 Win 7 IE 8 XP	No connec						
IE 11 Win 7		ECDHE-ECDSA-AES128-GCM-SHA256	256 bit ECDH (P-				
	TLSv1.2	ECDHE-ECDSA-AES128-GCM-SHA256	256 bit ECDH (P-				
IE 11 Win Phone 8.1	TLSv1.2	ECDHE-ECDSA-AES128-GCM-SHA256	256 bit ECDH (P-				
	TLSv1.2	ECDHE-ECDSA-AES128-GCM-SHA256	256 bit ECDH (P-				
=	TLSv1.2	ECDHE-ECDSA-AES128-GCM-SHA256	253 bit ECDH				
(X25519) Edge 101 Win 10 21H2	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
(X25519) Safari 12.1 (iOS 12.2)	TLSv1.3	TLS_CHACHA20_POLY1305_SHA256	253 bit ECDH				
(X25519) Safari 13.0 (macOS 10.14.6)	TLSv1.3	TLS_CHACHA20_POLY1305_SHA256	253 bit ECDH				
(X25519) Safari 15.4 (macOS 12.3.1)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
(X25519) Java 7u25	No connoc	tion					
Java 7025 Java 8u161	No connec	ECDHE-ECDSA-AES128-GCM-SHA256	256 bit ECDH (P-				
256) Java 11.0.2 (OpenJDK)	TLSv1.3	TLS AES 128 GCM SHA256	256 bit ECDH (P-				
256) Java 17.0.3 (OpenJDK)		TLS AES 256 GCM SHA384	253 bit ECDH				
(X25519) go 1.17.8	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
(X25519)	TLSv1.2	ECDHE-ECDSA-CHACHA20-POLY1305	253 bit ECDH				
(X25519) OpenSSL 1.0.2e	TLSv1.2	ECDHE-ECDSA-AES128-GCM-SHA256	256 bit ECDH (P-				
256)	TLSv1.2		253 bit ECDH				
(X25519)	TLSv1.3	TLS AES 256 GCM SHA384	253 bit ECDH				
(X25519)		TLS AES 256 GCM SHA384	253 bit ECDH				
(X25519) Apple Mail (16.0)		ECDHE-ECDSA-AES128-GCM-SHA256					
256)	TLSv1.2		256 bit ECDH (P-				
Thunderbird (91.9) (X25519)	TLSv1.3	TLS_AES_128_GCM_SHA256	253 bit ECDH				
Rating (experimental)							
Rating specs (not complete) 2020-01-30)	SSL Labs'	s 'SSL Server Rating Guide' (versi	ion 2009q from				
The state of the s	https://g	github.com/ssllabs/research/wiki/SS	SL-Server-Rating-				
Protocol Support (weighted)	0 (0)						
Key Exchange (weighted) Cipher Strength (weighted)	0 (0)						
Final Score	0						
Overall Grade	M Crade car	and to M. Domain name migmatch					
Grade cap reasons Grade capped to M. Domain name mismatch Grade capped to A. HSTS is not offered							
Done 2024-11-19 11:22:10 [90s]>> 104.17.215.66:443 (104.17.215.66) <<							



22 Great James Street
Holborn
London
WC1N 3ES

+44 (0)161 233 0100











