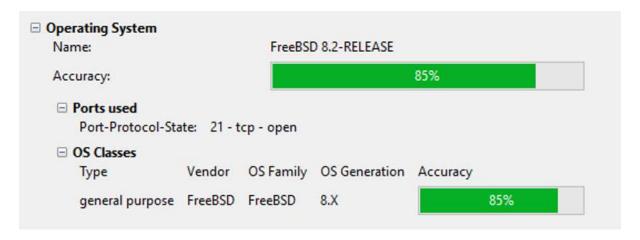
Question: What Operating System does the website utilise?

Answer:



Question: What web server software is it running?

Answer:



Question: Is it running a CMS (WordPress, Drupal, etc.?)

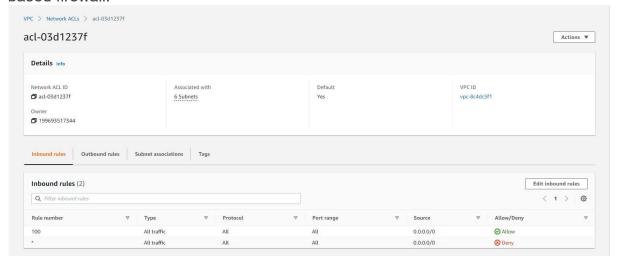
Answer:

FINGERPRINTED CMS & VULNERABILITIES

No CMS were fingerprinted on the website.

Question: What protection does it have (CDN, Proxy, Firewall?)

Answer: The web application is hosted on a platform that is protected by a rulebased firewall.



Question: Where is it hosted?





Question: Does it have any open ports?

Answer:

Open port and their network protocol

Nma	p Output	Ports / H	osts To	pology	Host	Details	Scans
4	Port ◀	Protocol 4	State ◀	Service	1	Version	ı
0	21	tcp	open	ftp			
0	22	tcp	open	ssh		OpenS	SH 7.4 (protocol 2.0)
0	80	tcp	open	tcpwra	pped		

Question: Does the site have any known vulnerabilities?

Answer:

Findings



Communication is not secure

URL		Evidence		
	http://nismphp-env.eba-3mvd2kij.us-east-1.elasticbeanstalk.com/	Communication is made over unsecure, unencrypted HTTP.		

Details

The communication between the web browser and the server is done using the HTTP protocol, which transmits data unencrypted over the network. Thus, an attacker who manages to intercept the communication at the network level, is able to read and modify the data transmitted (including passwords, secret tokens, credit card information and other sensitive data).

Recommendation:

We recommend you to reconfigure the web server to use HTTPS - which encrypts the communication between the web browser and the server.

Missing security header: Content-Security-Policy

URL	Evidence	
http://nismphp-env.eba-3mvd2kij,us-east- 1.elasticbeanstalk.com/	Response headers do not include the HTTP Content-Security-Policy security header	

→ Details

Risk description:

The Content-Security-Policy (CSP) header activates a protection mechanism implemented in web browsers which prevents exploitation of Cross-Site Scripting vulnerabilities (XSS). If the target application is vulnerable to XSS, lack of this header makes it easily exploitable by

Recommendation:

Configure the Content-Security-Header to be sent with each HTTP response in order to apply the specific policies needed by the application.

https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Security-Policy

Classification:

CWE: CWE-693

OWASP Top 10 - 2013: A5 - Security Misconfiguration OWASP Top 10 - 2017: A6 - Security Misconfiguration

Software / Version	Category	
/ Apache	Web Servers	
B Twitter Bootstrap	Web Frameworks	
€ jQuery 1.8.3	JavaScript Frameworks	

→ Details

Risk description:

An attacker could use this information to mount specific attacks against the identified software type and version.

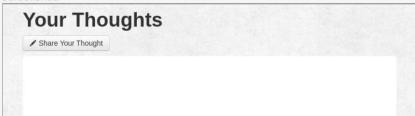
Recommendation:

We recommend you to eliminate the information which permits the identification of software platform, technology, server and operating system: HTTP server headers, HTML meta information, etc.

More information about this issue:

 $https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/01-Information_Gathering/02-Fingerprint_Web_Server.html.$

Screenshot:



Question: What versions of software is it using? Are these patched so that they are up to date?

<u>Answer</u>: jQuery 1.8.3 – JavaScrip Frameworks. jQuery 1.9.1 is recommended as remediation.

HIGH SEVERITY

Arbitrary Code Injection

Vulnerable module: xmlhttprequest Introduced through: xmlhttprequest@1.4.2

Detailed paths

Introduced through: jquery@1.8.3 > xmlhttprequest@1.4.2
 Remediation: Upgrade to jquery@1.9.1.

Overview

xmlhttprequest is a wrapper for the built-in http client to emulate the browser XMLHttpRequest object.

Affected versions of this package are vulnerable to Arbitrary Code Injection. Provided requests are sent synchronously (async=False on xhr.open), malicious user input flowing into xhr.send could result in arbitrary code being injected and run.

POC

```
const { XMLHttpRequest } = require("xmlhttprequest")

const xhr = new XMLHttpRequest()
xhr.open("POST", "http://localhost.invalid/", false /* use synchronize request */)
xhr.send("\\');require(\"fs\").writeFileSync(\"/tmp/aaaaa.txt\", \"poc-20210306\");req.end();//")
```

Arbitrary Code Injection vulnerability report