Vulnerability Report

Target URL: http://zero.webappsecurity.com/

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Ethical Hacking Internship -- Task-2



Vulnerability Statistics

Critical

3

High

10

Medium

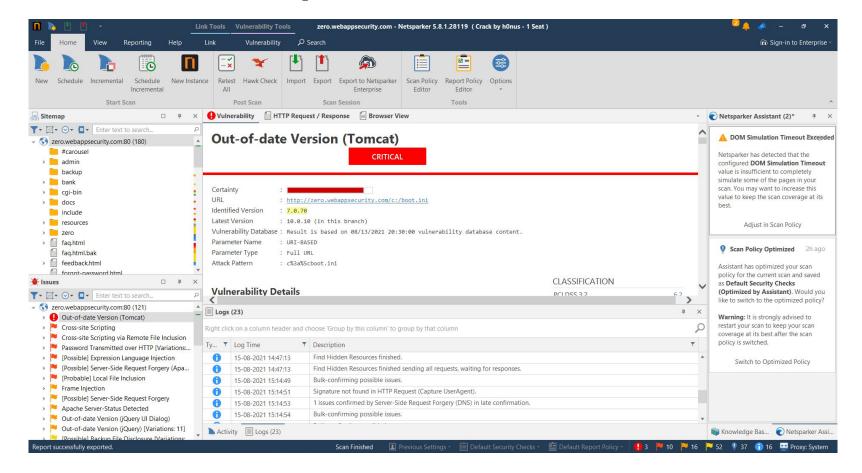
16

Low

52

Vulnerability Report Generated by Netsparker

Screenshot of Netsparker



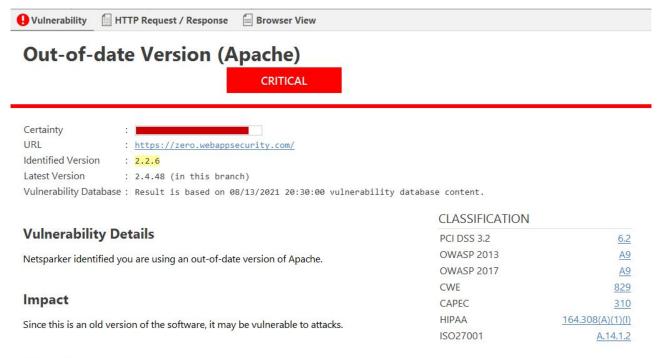
Issues Found by Netsparker

- zero.webappsecurity.com:80 (121)
 - Out-of-date Version (Tomcat)
 - Cross-site Scripting
 - Cross-site Scripting via Remote File Inclusion
 - Password Transmitted over HTTP [Variations: 4]
 - [Possible] Expression Language Injection
 - [Possible] Server-Side Request Forgery (Apache Server Status)
 - [Probable] Local File Inclusion
 - Frame Injection
 - > [Possible] Server-Side Request Forgery
 - Apache Server-Status Detected
 - Out-of-date Version (iQuery UI Dialog)
 - Out-of-date Version (jQuery) [Variations: 11]
 - Possible Backup File Disclosure [Variations: 4]
 - Possible Cross-site Request Forgery [Variations: 7]
 - > [Possible] Cross-site Request Forgery in Login Form
 - > [Possible] Phishing by Navigating Browser Tabs [Variations: 11]
 - Missing X-Frame-Options Header [Variations: 11]
 - Version Disclosure (Apache Coyote)
 - Version Disclosure (Tomcat)
 - Misconfigured Access-Control-Allow-Origin Header [Variations: 11]

- Content Security Policy (CSP) Not Implemented [Variations: 11]
- Missing X-XSS-Protection Header [Variations: 11]
- Referrer-Policy Not Implemented [Variations: 11]
- SameSite Cookie Not Implemented [Variations: 3]
- Forbidden Resource [Variations: 6]
- OPTIONS Method Enabled [Variations: 3]
- Possible Login Page Identified
- Apache Web Server Identified
- Default Page Detected (Tomcat)
- Email Address Disclosure
- sero.webappsecurity.com:443 (13)
 - Out-of-date Version (Apache)
 - Out-of-date Version (OpenSSL)
 - Insecure Transportation Security Protocol Supported (SSLv2)
 - Insecure Transportation Security Protocol Supported (SSLv3)
 - Weak Ciphers Enabled
 - HTTP Strict Transport Security (HSTS) Policy Not Enabled
 - Insecure Transportation Security Protocol Supported (TLS 1.0)
 - Version Disclosure (Apache Module)
 - Version Disclosure (Apache)
 - Version Disclosure (mod_ssl)
 - Version Disclosure (OpenSSL)
 - Expect-CT Not Enabled
 - Default Page Detected (Apache)

Critical Vulnerabilities Found

Out-of-date Version (Apache)



Remedy

Please upgrade your installation of Apache to the latest stable version.

Out-of-date Version (Apache)

Vulnerability Type: Critical

Identified Version: 2.2.6 Latest Version: 2.4.48

Impact:

The website will be more vulnerable to ransomware attacks, malware and data breaches which can have catastrophic consequences.

Remedy:

Update Apache to latest version

Remedy Reference:

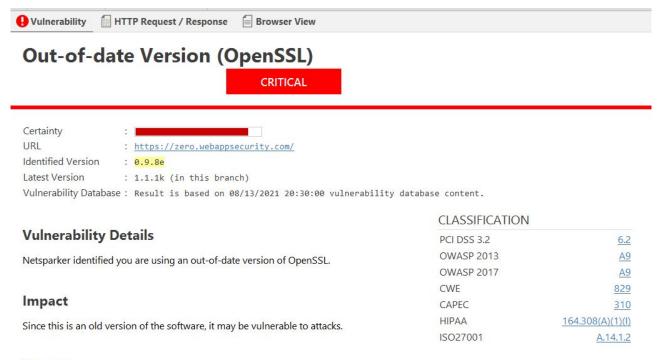
https://httpd.apache.org/download.cgi

Out-of-date Version (Apache)

Few Vulnerabilities found in this version:

- Improper Input Validation Vulnerability (Critical):
 Incorrect input validation can lead to injection attacks, memory leakage, and compromised systems.
- Improper Authentication Vulnerability (Critical):
 When access control checks are incorrectly applied, users are able to access data or perform actions that they should not be allowed to perform. This can lead to a wide range of problems, including information exposures, denial of service, and arbitrary code execution.
- Numeric Errors Vulnerability (High):
 The peculiarities of fixed-size integer arithmetic and conversions are subtle and can easily lead to serious security vulnerabilities.

Out-of-date Version (OpenSSL)



Remedy

Please upgrade your installation of OpenSSL to the latest stable version.

Out-of-date Version (OpenSSL)

Vulnerability Type: Critical

Identified Version: 0.9.8e

Latest Version: 1.1.1k

Impact:

The website will be more vulnerable to ransomware attacks, malware and data breaches which can have catastrophic consequences.

Remedy:

Update OpenSSL to latest version

Remedy Reference:

https://www.openssl.org/

Out-of-date Version (OpenSSL)

Few Vulnerabilities found in this version:

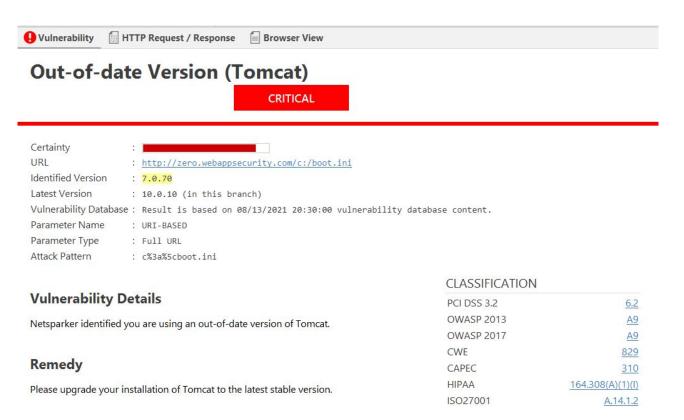
 Improper Restriction of Operations within the Bounds of a Memory Buffer Vulnerability (Critical):

Allows attackers to obtain sensitive information from process stack memory or cause a denial of service.

- Exposure of Sensitive Information to an Unauthorized Actor Vulnerability (High): There is a change of information leak affecting the confidentiality of the user.
- Numeric Errors Vulnerability (High):

The peculiarities of fixed-size integer arithmetic and conversions are subtle and can easily lead to serious security vulnerabilities.

Out-of-date Version (Tomcat)



Out-of-date Version (Tomcat)

Vulnerability Type: Critical

Identified Version: 7.0.70 **Latest Version:** 10.0.10

Impact:

The website will be more vulnerable to ransomware attacks, malware and data breaches which can have catastrophic consequences.

Remedy:

Update Tomcat to latest version

Remedy Reference:

https://tomcat.apache.org/whichversion.html

Out-of-date Version (Tomcat)

Few Vulnerabilities found in this version:

- Exposure of Resource to Wrong Sphere Vulnerability (Critical):
 Resources such as files and directories may be inadvertently exposed through mechanisms such as insecure permissions, or when a program accidentally operates on the wrong object.
- Unreachable Exit Condition ('Infinite Loop') Vulnerability (High):
 An improper handling of overflow in the UTF-8 decoder with supplementary characters can lead to an infinite loop in the decoder causing a Denial of Service.
- Unrestricted Upload of File with Dangerous Type Vulnerability (High):
 May grant access or host other illegal software objects that will increase the chance of further security risks. The hacker may gain control of the webserver and modify the website to remove useful pieces of data.

Thank You

Detailed scan report generated by Netsparker is provided in Github

https://github.com/jill-amudhini/InternshipStudio-EthicalHacking