ASTICI



Pentest Report

Penetration test of OWASP WebGoat

Consultant: ASTICI

16/10/2023

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

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

Priotity-High Pytest-Playwright Test Output Issue

GitHub Issue number # 571 GitHub Issue URL: Here! **Playwright** pytest "priority High" Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.2, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI configfile: apture=tee-sys plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0, playwright-0.4.3, trio-0.8.0 asyncio: mode=strict collected 5 items src/test_AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ______ ======== 5 passed in 28.86s _____ Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 570

GitHub Issue URL: Here!

- Site: http://52.140.114.9:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Cookie No HttpOnly Flag [10010] total: 1:
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Cookie Slack Detector [90027] total: 2:
 - http://52.140.114.9:8080/WebGoat/login
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Cookie without SameSite Attribute [10054] total: 1:
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Base64 Disclosure [10094] total: 1:
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Non-Storable Content [10049] total: 1:
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Session Management Response Identified [10112] total: 2:
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - http://52.140.114.9:8080/WebGoat/start.mvc
 - Storable and Cacheable Content [10049] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login

• User Agent Fuzzer [10104] total: 24:

- http://52.140.114.9:8080/WebGoat
- http://52.140.114.9:8080/WebGoat
- http://52.140.114.9:8080/WebGoat
- http://52.140.114.9:8080/WebGoat
- http://52.140.114.9:8080/WebGoat
- ..

Priotity-High Metasploit-ParrotOS Test output

GitHub Issue number # 569

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 [14.4 kB]

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [543 kB]

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

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

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

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

Fetched 19.9 MB in 2s (11.2 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl python3-certifi python3-typing-extensions
43 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

openssh-sftp-server openssl python3-certifi python3-typing-extensions

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

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

43 packages can be upgraded. Run 'apt list --upgradable' to see them. Cleaning up any existing old code copies of security tests... This is not a secure way to check out code; Getting the latest code copy for all security tests... ______ Metasploit Framework Exploit Demo: ______ Target Web Goat Instance IP Address: 52.140.114.9 Possible Metasploit exploits or auxilaries 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



resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> exit
[*] Payload Handler Started as Job
resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> exploit

==

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 568

GitHub Issue URL: Here!

parrotOS nmap "priority Medium"

Nmap vulnerability scanning for 52.140.114.9

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [543 kB]

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

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

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

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

Fetched 19.9 MB in 2s (8203 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl python3-certifi python3-typing-extensions
43 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6

openssh-sftp-server openssl python3-certifi python3-typing-extensions

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

libx11-data libxpm4 locales openssh-client openssh-server

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

```
43 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (https://nmap.org) at 2023-10-16 07:22 UTC
Nmap scan report for 52.140.114.9
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 35:1f:54:2a:b8:8f:da:33:41:2e:55:a5:26:b8:ab:34 (ECDSA)
256 c8:33:d5:cb:a1:79:60:b5:3a:4b:99:8d:ec:a7:56:a2 (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, 16 Oct 2023 07:26:11 GMT
| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions,
SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie,
WMSRequest, oracle-tns:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Mon, 16 Oct 2023 07:26:09 GMT
| HTTPOptions:
```

```
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
|_ Date: Mon, 16 Oct 2023 07:26:10 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, 16 Oct 2023 07:26:09 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" : "2023-10-16T07:26:09.784+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, 16 Oct 2023 07:26:27 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" : "2023-10-16T07:26:27.751+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=10/16%Time=652CE591%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, 16 Oct 2023 07:26:
SF:09 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found\n
SF:r Connection: close Content-Length: 0 Date: Mon, 16\n
SF:x20Oct 2023 07:26:10 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, 16\x
SF:20Oct 2023 07:26:11 GMT
```

```
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
");
```

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

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

 $SF-Port9090-TCP: V=7.92\% I=7\% D=10/16\% Time=652 CE591\% P=x86_64-pc-linux-gnu\% r(G$

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

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

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

SF:ame-Options: DENY Date: Mon, 16 Oct 2023 07:26:09\n

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

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

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

SF: { \"timestamp\" : \"2023-10-16T07:26:09.784+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: Mon, 16 Oct 2023 07:26

SF::27 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR

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

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

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

SF:pplication/json

{ \"timestamp\" : \"2023-10-16T07

SF::26:27.751+00:00\", \"status\" : 404, \"error

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

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

SF: Connection: close

");

Device type: general purpose|storage-misc|firewall

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

OS CPE: cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 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 5780.13 ms 52.140.114.9

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

Nmap done: 1 IP address (1 host up) scanned in 345.26 seconds

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

Starting Nmap 7.92 (https://nmap.org) at 2023-10-16 07:28 UTC

Nmap scan report for 52.140.114.9

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 2023-10-16 07:28 UTC

Nmap scan report for 52.140.114.9

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

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 567

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 # 566

GitHub Issue URL: Here!

Snyk_scan "priotity High"

Snyk Scan for OWASP WebGoat

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

Priotity-High Pytest-Playwright Test Output Issue

GitHub Issue number # 565 GitHub Issue URL: Here! **Playwright** pytest "priority High" Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.2, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI configfile: apture=tee-sys plugins: asyncio-0.21.1, anyio-4.0.0, tornasync-0.6.0.post2, base-url-2.0.0, playwright-0.4.3, trio-0.8.0 asyncio: mode=strict collected 5 items src/test_AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ______ ======== 5 passed in 27.58s _____ Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 564

GitHub Issue URL: Here!

- Site: http://20.204.46.172:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Cookie No HttpOnly Flag [10010] total: 1:
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Cookie Slack Detector [90027] total: 2:
 - http://20.204.46.172:8080/WebGoat/login
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Cookie without SameSite Attribute [10054] total: 1:
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Non-Storable Content [10049] total: 1:
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Session Management Response Identified [10112] total: 2:
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - http://20.204.46.172:8080/WebGoat/start.mvc
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - User Agent Fuzzer [10104] total: 24:
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat

- http://20.204.46.172:8080/WebGoat
- http://20.204.46.172:8080/WebGoat
- http://20.204.46.172:8080/WebGoat

_

View the following link to download the report. RunnerID:6522428777

- Site: http://52.140.114.9:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://52.140.114.9:8080/WebGoat/login
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - Storable and Cacheable Content [10049] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/login
 - User Agent Fuzzer [10104] total: 12:
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat

...

Priotity-High Metasploit-ParrotOS Test output

GitHub Issue number # 563

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 [14.4 kB]

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [543 kB]

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

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

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

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

Fetched 19.9 MB in 2s (8449 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl python3-certifi python3-typing-extensions
43 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6

openssh-sftp-server openssl python3-certifi python3-typing-extensions

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

libx11-data libxpm4 locales openssh-client openssh-server

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

43 packages can be upgraded. Run 'apt list --upgradable' to see them. Cleaning up any existing old code copies of security tests... This is not a secure way to check out code; Getting the latest code copy for all security tests... ______ Metasploit Framework Exploit Demo: ______ Target Web Goat Instance IP Address: 20.204.46.172 Possible Metasploit exploits or auxilaries 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



resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> exit
[*] Payload Handler Started as Job
resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> exploit

==

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 562

GitHub Issue URL: Here!

parrotOS nmap "priority Medium"

Nmap vulnerability scanning for 20.204.46.172

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

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

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

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

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

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

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

Get:7 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [543 kB]

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

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

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

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

Fetched 19.9 MB in 3s (6975 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6
libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl python3-certifi python3-typing-extensions
43 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3 libx11-6

openssh-sftp-server openssl python3-certifi python3-typing-extensions

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

libx11-data libxpm4 locales openssh-client openssh-server

Need to get 32.5 MB of archives.

After this operation, 44.0 kB disk space will be freed.

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

```
43 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (https://nmap.org) at 2023-10-15 06:28 UTC
Nmap scan report for 20.204.46.172
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 16:a9:0d:85:0d:d4:a6:75:b8:3f:b9:10:f1:c3:5b:d7 (ECDSA)
256 3b:5a:ac:fa:01:cc:e0:aa:53:93:ac:a8:67:48:6c:7c (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: Sun, 15 Oct 2023 06:32:08 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: Sun, 15 Oct 2023 06:32:07 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: Sun, 15 Oct 2023 06:32:07 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" : "2023-10-15T06:32:07.385+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: Sun, 15 Oct 2023 06:32:25 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" : "2023-10-15T06:32:25.435+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=10/15%Time=652B8767%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: Sun, 15 Oct 2023 06:32:
SF:07 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found\n
SF:r Connection: close Content-Length: 0 Date: Sun, 15\n
SF:x20Oct 2023 06:32:07 GMT
")%r(RTSPRequest,42,"HTTP/1.1
SF: 400 Bad Request Content-Length: 0 Connection: clo
SF:se
")%r(FourOhFourReguest,65,"HTTP/1.1 404 Not Found
SF: Connection: close Content-Length: 0 Date: Sun, 15\x
SF:20Oct 2023 06:32:08 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 Reguest Content-Length: 0 Connection: close\n
SF:r
")%r(SSLSessionReg,42,"HTTP/1.1 400 Bad Request Con
SF:tent-Length: 0 Connection: close
")%r(TerminalServerCoo
SF:kie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 B
SF:ad Request Content-Length: 0 Connection: close
")
SF:%r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:\x
SF:200 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(WMSRequest,42,"
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio
SF:n: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
");
=========NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)========
SF-Port9090-TCP:V=7.92%I=7%D=10/15%Time=652B8767%P=x86 64-pc-linux-
gnu%r(G
SF:etRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cac
SF:he-Control: no-cache, no-store, max-age=0, must-revalidate\n
```

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

SF:ame-Options: DENY Date: Sun, 15 Oct 2023 06:32:07\n

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

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

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

SF: { \"timestamp\" : \"2023-10-15T06:32:07.385+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: Sun, 15 Oct 2023 06:32

SF::25 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR

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

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

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

SF:pplication/json

{ \"timestamp\" : \"2023-10-15T06

SF::32:25.435+00:00\", \"status\" : 404, \"error

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

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

SF: Connection: close

"):

Device type: general purpose|storage-misc|firewall

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

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

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

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

Network Distance: 24 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 ... 23

24 233.98 ms 20.204.46.172

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

Nmap done: 1 IP address (1 host up) scanned in 348.88 seconds

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

Starting Nmap 7.92 (https://nmap.org) at 2023-10-15 06:34 UTC

Nmap scan report for 20.204.46.172

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (https://nmap.org) at 2023-10-15 06:34 UTC

Nmap scan report for 20.204.46.172

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 561

GitHub Issue URL: Here!

- Site: http://20.204.46.172:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.204.46.172:8080/WebGoat/login
 - Sec-Fetch-Dest Header is Missing [90005] total: 3:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - Sec-Fetch-Mode Header is Missing [90005] total: 3:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - Sec-Fetch-Site Header is Missing [90005] total: 3:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - Sec-Fetch-User Header is Missing [90005] total: 3:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/login
 - User Agent Fuzzer [10104] total: 12:
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat

...

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 560

GitHub Issue URL: Here!

- Site: http://20.204.46.172:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.204.46.172:8080/WebGoat/registration
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.204.46.172:8080/WebGoat/registration
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.204.46.172:8080/WebGoat/registration
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.204.46.172:8080/WebGoat/registration
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/registration
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/registration
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/registration
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/registration
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.204.46.172:8080/
 - http://20.204.46.172:8080/robots.txt
 - http://20.204.46.172:8080/sitemap.xml
 - http://20.204.46.172:8080/WebGoat/registration
 - User Agent Fuzzer [10104] total: 12:
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - http://20.204.46.172:8080/WebGoat
 - **.**..

- Site: http://52.140.114.9:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://52.140.114.9:8080/WebGoat/registration
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://52.140.114.9:8080/WebGoat/registration

- Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://52.140.114.9:8080/WebGoat/registration
- Permissions Policy Header Not Set [10063] total: 1:
 - http://52.140.114.9:8080/WebGoat/registration
- Sec-Fetch-Dest Header is Missing [90005] total: 3:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/registration
- Sec-Fetch-Mode Header is Missing [90005] total: 3:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/registration
- Sec-Fetch-Site Header is Missing [90005] total: 3:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/registration
- Sec-Fetch-User Header is Missing [90005] total: 3:
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/registration
- Storable and Cacheable Content [10049] total: 4:
 - http://52.140.114.9:8080/
 - http://52.140.114.9:8080/robots.txt
 - http://52.140.114.9:8080/sitemap.xml
 - http://52.140.114.9:8080/WebGoat/registration
- User Agent Fuzzer [10104] total: 12:
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - http://52.140.114.9:8080/WebGoat
 - .

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 559

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 # 558

GitHub Issue URL: Here!

Snyk_scan "priotity High"

Snyk Scan for OWASP WebGoat

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

Confidential

