Internal_THM

Enumuration

- 1- found website onoport 80
- 2- wordpress site
- 3-/blog and/wordpress
- 4- found username admin using wp-scan and a login page at /blog/wp-login.php
- 5- add the website to etc host with hostname internal.thm

Nmap

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

2048 6e:fa:ef:be:f6:5f:98:b9:59:7b:f7:8e:b9:c5:62:1e (RSA)

256 ed:64:ed:33:e5:c9:30:58:ba:23:04:0d:14:eb:30:e9 (ECDSA)

256 b0:7f:7f:7b:52:62:62:2a:60:d4:3d:36:fa:89:ee:ff (ED25519)

80/tcp open http Apache httpd 2.4.29 ((Ubuntu))

|_http-server-header: Apache/2.4.29 (Ubuntu)

|_http-title: Apache2 Ubuntu Default Page: It works

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port

Aggressive OS guesses: Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Adtran 424RG FTTH gateway (92%), Linux 2.6.32 (92%),

Linux 2.6.39 - 3.2 (92%), Linux 3.1 - 3.2 (92%), Linux 3.2 - 4.9 (92%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 4 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 22/tcp)

HOP RTT ADDRESS

1 200.26 ms 10.4.0.1

2 ... 3

4 455.59 ms 10.10.137.33

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 35.02 seconds

SSH:22

HTTP:80

Gobuster

/.hta (Status: 403) [Size: 277] /.htpasswd (Status: 403) [Size: 277] /.htaccess (Status: 403) [Size: 277]

/blog (Status: 301) [Size: 311] [--> http://10.10.137.33/blog/]

/index.html (Status: 200) [Size: 10918]

/javascript (Status: 301) [Size: 317] [--> http://10.10.137.33/javascript/]

/phpmyadmin (Status: 301) [Size: 317] [--> http://10.10.137.33/phpmyadmin/]

/server-status (Status: 403) [Size: 277]

/wordpress

/.hta (Status: 403) [Size: 277] /.htaccess (Status: 403) [Size: 277] /.htpasswd (Status: 403) [Size: 277]

/index.php (Status: 301) [Size: 0] [--> http://10.10.137.33/blog/l

/wp-admin (Status: 301) [Size: 320] [--> http://10.10.137.33/blog/wp-admin/] /wp-content (Status: 301) [Size: 322] [--> http://10.10.137.33/blog/wp-content/] /wp-includes (Status: 301) [Size: 323] [--> http://10.10.137.33/blog/wp-includes/]

/xmlrpc.php (Status: 405) [Size: 42]

Wordpress

+] URL: http://internal.thm/blog/ [10.10.137.33]

[+] Started: Mon May 24 09:25:04 2021

Interesting Finding(s):

[+] Headers

| Interesting Entry: Server: Apache/2.4.29 (Ubuntu)

Found By: Headers (Passive Detection)

| Confidence: 100%

[+] XML-RPC seems to be enabled: http://internal.thm/blog/xmlrpc.php

| Found By: Direct Access (Aggressive Detection)

Confidence: 100%

| References:

| - http://codex.wordpress.org/XML-RPC Pingback API

| - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_ghost_scanner/

| - https://www.rapid7.com/db/modules/auxiliary/dos/http/wordpress_xmlrpc_dos/

 $|\ - \underline{https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_xmlrpc_login/}$

| - https://www.rapid7.com/db/modules/auxiliary/scanner/http/wordpress_pingback_access/

[+] WordPress readme found: http://internal.thm/blog/readme.html

| Found By: Direct Access (Aggressive Detection)

| Confidence: 100%

[+] The external WP-Cron seems to be enabled: http://internal.thm/blog/wp-cron.php

| Found By: Direct Access (Aggressive Detection)

| Confidence: 60% | References:

| - https://www.iplocation.net/defend-wordpress-from-ddos

- https://github.com/wpscanteam/wpscan/issues/1299

[+] WordPress version 5.4.2 identified (Insecure, released on 2020-06-10).

| Found By: Rss Generator (Passive Detection)

| - http://internal.thm/blog/index.php/feed/, <generator>https://wordpress.org/?v=5.4.2</generator>

- http://internal.thm/blog/index.php/comments/feed/, <generator>https://wordpress.org/?v=5.4.2</generator>

[+] WordPress theme in use: twentyseventeen

| Location: http://internal.thm/blog/wp-content/themes/twentyseventeen/

| Last Updated: 2021-04-27T00:00:00.000Z

| Readme: http://internal.thm/blog/wp-content/themes/twentyseventeen/readme.txt

[!] The version is out of date, the latest version is 2.7

| Style URL: http://internal.thm/blog/wp-content/themes/twentyseventeen/style.css?ver=20190507

| Style Name: Twenty Seventeen

```
| Style URI: <a href="https://wordpress.org/themes/twentyseventeen/">https://wordpress.org/themes/twentyseventeen/</a>
| Description: Twenty Seventeen brings your site to life with header video and immersive featured images. With a
fo...
| Author: the WordPress team
 Author URI: https://wordpress.org/
 | Found By: Css Style In Homepage (Passive Detection)
| Version: 2.3 (80% confidence)
 Found By: Style (Passive Detection)
- http://internal.thm/blog/wp-content/themes/twentyseventeen/style.css?ver=20190507, Match: 'Version: 2.3'
[+] Enumerating All Plugins (via Passive Methods)
[i] No plugins Found.
[+] Enumerating Config Backups (via Passive and Aggressive Methods)
(137 / 137) 100.00% Time: 00:00:15
[i] No Config Backups Found.
[!] No WPScan API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 25 daily requests by registering at <a href="https://wpscan.com/register">https://wpscan.com/register</a>
[+] Finished: Mon May 24 09:25:44 2021
[+] Requests Done: 171
[+] Cached Requests: 5
[+] Data Sent: 43.929 KB
[+] Data Received: 364.163 KB
[+] Memory used: 206.371 MB
[+] Elapsed time: 00:00:39
#user found
 +ladmin
| Found By: Rss Generator (Passive Detection)
| Confirmed By:
| Wp Json Api (Aggressive Detection)
```

hydra Login

| Login Error Messages (Aggressive Detection)

hydra -l admin -P WordLists/rockyou.txt internal.thm http-post-form "/blog/wplogin.php:log=^USER^&pwd=^PASS^:The password you entered " Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-05-24 09:46:45

- http://internal.thm/blog/index.php/wp-json/wp/v2/users/?per_page=100&page=1

[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (I:1/p:14344399), ~896525 tries per task [DATA] attacking http-post-form://internal.thm:80/blog/wp-login.php:log=^USER^&pwd=^PASS^:The password you entered

[STATUS] 438.00 tries/min, 438 tries in 00:01h, 14343961 to do in 545:49h, 16 active [STATUS] 436.33 tries/min, 1309 tries in 00:03h, 14343090 to do in 547:52h, 16 active [STATUS] 444.00 tries/min, 3108 tries in 00:07h, 14341291 to do in 538:21h, 16 active [80][http-post-form] host: internal.thm login: admin password: my2boys

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-05-24 09:55:35

Exploitation

- 1. Go to appearance and edit current theme and paste a reverse shell in 404.php
- 2. Now access it using http://internal.thm/blog/wp-content/themes/twentyseventeen/404.php url and get a shell back

Post-Exploitation

- 1- we get user password from a note in opt directory
- 2- Now we ssh into it and we have to get root3
- 3-we see that a note says that we have to get to a internal server running at 172.17.0.2:8080
- 4- we do local port forwarding by ssh -L 7777:172.17.0.2:8080 aubreanna@ip
- 5- now we can access the internal webserver at 127.0.0.1:7777
- 6- we get a login and we bruteforce it and get a passowrd for user admin:spongebob
- 7- Now we are isnide jenkins dashboard and we can execute scripts using the geoovy scripting engine in jenkins
- 8- we use a groovy payload and get a reverse shell back which is basically docker contianer
- 9- here we manually enumurate and get the root user credentials in opt direcotry
- 10- NOw we simply ssh into the root

wp-config.php

```
<?php
/**
* The base configuration for WordPress
* The wp-config.php creation script uses this file during the
* installation. You don't have to use the web site, you can
* copy this file to "wp-config.php" and fill in the values.
* This file contains the following configurations:
* * MySQL settings
* * Secret keys
* * Database table prefix
* * ABSPATH
* @link https://wordpress.org/support/article/editing-wp-config-php/
* @package WordPress
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress');
/** MySQL database username */
define( 'DB_USER', 'wordpress' );
/** MySQL database password */
define( 'DB PASSWORD', 'wordpress123');
/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
/** Database Charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8mb4' );
/** The Database Collate type. Don't change this if in doubt. */
```

```
/**#@+
* Authentication Unique Keys and Salts.
* Change these to different unique phrases!
* You can generate these using the {@link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key
* 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.
* @since 2.6.0
*/
                         'No9]-c] 7M5ae[&|ow)97dfBLUV1G8AakB)?#XIN:W`y4?tgN,DOoC8 mD/)8vh');
define( 'AUTH KEY',
define( 'SECURE AUTH KEY', 'xs.zSjNj^a: zpzBLb@r[u65WA9uNd:vLXtLs^>@q38*x.kVxr g,yoGlOpd%Xde' );
define( 'LOGGED IN KEY',
                            rZU = v + 8q, ev/*Q; c**79^K14&M@2-IDB)DknMf7 < a/; hviCw?kRv = MW5Ik.vSoG');
define( 'NONCE KEY',
                          '8v={}7jgkSu|D[Nfy]y}>MX}60oSjSMn^qC2rW%V,3|Fg0TJrB6m4}Mb>V@[pZ<w');
define( 'AUTH SALT',
                         'ASOB>S,c3MiYiYSh!;My@BaY7MYRQRI}/~ZC6k?9^e7/jCB00r@Z0)Oe@gQ8Trk*');
define(\ 'SECURE\_AUTH\_SALT',\ 'd(=umc=!qOCnjlvr\sim\_T\_(la5.mG6VGF\sim ktdtt1uzj6A\$KJsEAAA5k7.(zFgLa96['\ );
define( 'LOGGED_IN_SALT', '~A,!e|5RGqu!KB=/1R4TN_tcGuK}+]]I_p`FZ[(~L0rv_OY#EItD)tC[hM|I|0z');
define( 'NONCE SALT',
                          'H+T|fK,+u\ K\}_qDTs,ob\{,h0TLbd\}\#pwksNuBzu9\sim Kw<GcDnJiMYm\}[AvPQVTr_,');
/**#@-*/
* WordPress Database Table prefix.
* You can have multiple installations in one database if you give each
* a unique prefix. Only numbers, letters, and underscores please!
$table_prefix = 'wp_';
/**
* For developers: WordPress debugging mode.
* Change this to true to enable the display of notices during development.
* It is strongly recommended that plugin and theme developers use WP DEBUG
* in their development environments.
* For information on other constants that can be used for debugging,
* visit the documentation.
* @link <a href="https://wordpress.org/support/article/debugging-in-wordpress/">https://wordpress.org/support/article/debugging-in-wordpress/</a>
define( 'WP DEBUG', false );
/* That's all, stop editing! Happy publishing. */
/** Absolute path to the WordPress directory. */
if (! defined('ABSPATH')) {
     define( 'ABSPATH', __DIR__ . '/' );
/** Sets up WordPress vars and included files. */
require_once ABSPATH . 'wp-settings.php';
```

Loot

define('DB COLLATE', ");

Flags

```
# User Flag
THM{int3rna1_fl4g_1}
# Root Flag
```

 $THM\{d0ck3r_d3str0y3r\}$

Credentials

wordpress login

admin:my2boys

Mysql database credentials

wordpress:wordpress123

Hash dump from databse

admin: \$P\$BOFWK.UcwNR/tV/nZZvSA6j3bz/WIp/

william:arnold147

SSH credentials

aubreanna:bubb13guM!@#123

INternal jenkins webserver login

admin:spongebob

Root credentials

root:tr0ub13guM!@#123