Network Administration/System Administration (NTU CSIE, Spring 2024) Lab 15 - Nmap & Password Cracking

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1 Nmap

Steps

1. SSH into the Kali VM from the Debian VM.

```
nasa2024@debian:~$ ssh -p 10022 localhost
```

2. Scan open ports on 10.0.2.16 with Nmap.

Result

2 Password Cracking

Steps

- 1. Access http://localhost:18787/ on the Debian VM. We see that user admin has a hashed password of \$2b\$12\$MUZRiO7d.hFjdek1NPPbh.4G2SgpmpAnl6ZwhBNrtXqRK8hgJV8Da.
- 2. Save the password as a text file in the Kali VM.

3. Unzip /usr/share/wordlists/rockyou.txt.gz

```
nasa2024@kali-[/usr/share/wordlists] $ sudo gunzip rockyou.txt.gz
```

4. Use john to crack the password.

```
nasa2024@kali-[~] $ john \
   --wordlist=/usr/share/wordlists/rockyou.txt \
   admin_password.txt
```

5. The cracked password is iloveyou4. Use it to login to the website and obtain the flag.

Result

```
(nasa2024⊕kali)-[~]

$ john —wordlist=/usr/share/wordlists/rockyou.txt admin_password.txt
Using default input encoding: UTF-8
Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])
Cost 1 (iteration count) is 4096 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
iloveyou4 (?)
1g 0:00:07:30 DONE (2024-06-03 11:37) 0.002218g/s 11.06p/s 11.06c/s 11.06C/s super1..ramos
Use the "——show" option to display all of the cracked passwords reliably
Session completed.
```

