

# Hydra

Hydra is a fast network login cracker that supports numerous attack protocols. It is a versatile tool that can brute-force a wide range of services, including web applications, remote login services like SSH and FTP, and even databases.

Hydra's popularity stems from its:

- **Speed and Efficiency:** Hydra utilizes parallel connections to perform multiple login attempts simultaneously, significantly speeding up the cracking process.
- **Flexibility:** Hydra supports many protocols and services, making it adaptable to various attack scenarios.
- **Ease of Use:** Hydra is relatively easy to use despite its power, with a straightforward command-line interface and clear syntax.

## Installation

Hydra often comes pre-installed on popular penetration testing distributions. You can verify its presence by running:

```
MisaelMacias@htb[/htb]$ hydra -h
```

If Hydra is not installed or you are using a different Linux distribution, you can install it from the package repository:

```
MisaelMacias@htb[/htb]$ sudo apt-get -y update
MisaelMacias@htb[/htb]$ sudo apt-get -y install hydra
```

## Basic Usage

Hydra's basic syntax is:

```
MisaelMacias@htb[/htb]$ hydra [login_options] [password_options] [attack_options] [service_or_target]
```

Parameter	Explanation	Usage Example
<b>-l LOGIN or -L FILE</b>	Login options: Specify either a single username (-l) or a file containing a list of usernames (-L).	<b>hydra -l admin ...</b> or <b>hydra -L usernames.txt ...</b>
<b>-p PASS or -P FILE</b>	Password options: Provide either a single password (-p) or a file containing a list of passwords (-P).	<b>hydra -p password123 ...</b> or <b>hydra -P passwords.txt ...</b>
<b>-t TASKS</b>	Tasks: Define the number of parallel tasks (threads) to run, potentially speeding up the attack.	<b>hydra -t 4 ...</b>
<b>-f</b>	Fast mode: Stop the attack after the first successful login is found.	<b>hydra -f ...</b>
<b>-s PORT</b>	Port: Specify a non-default port for the target service.	<b>hydra -s 2222 ...</b>
<b>-v or -V</b>	Verbose output: Display detailed information about the attack's progress, including attempts and results.	<b>hydra -v ...</b> or <b>hydra -V ...</b> (for even more verbosity)
<b>service://server</b>	Target: Specify the service (e.g., <b>ssh</b> , <b>http</b> , <b>ftp</b> ) and the target server's address or hostname.	<b>hydra ssh://192.168.1.100</b>
<b>/OPT</b>	Service-specific options: Provide	<b>hydra http-get://example.com/login.php -m</b>

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OFFLINE

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```
Hydra
MisaelMacias@htb[/htb]$ hydra -L usernames.txt -P passwords.txt www.example.com http-get
```

This command instructs Hydra to:

- Use the list of usernames from the `usernames.txt` file.
- Use the list of passwords from the `passwords.txt` file.
- Target the website `www.example.com`.
- Employ the `http-get` module to test the HTTP authentication.

Hydra will systematically try each username-password combination against the target website to discover a valid login.

## Targeting Multiple SSH Servers

Consider a situation where you have identified several servers that may be vulnerable to SSH brute-force attacks. You compile their IP addresses into a file named `targets.txt` and know that these servers might use the default username "root" and password "toor." To efficiently test all these servers simultaneously, use the following Hydra command:

```
Hydra
MisaelMacias@htb[/htb]$ hydra -l root -p toor -M targets.txt ssh
```

This command instructs Hydra to:

- Use the username "root".
- Use the password "toor".
- Target all IP addresses listed in the `targets.txt` file.
- Employ the `ssh` module for the attack.

Hydra will execute parallel brute-force attempts on each server, significantly speeding up the process.

## Testing FTP Credentials on a Non-Standard Port

Imagine you need to assess the security of an FTP server hosted at `ftp.example.com`, which operates on a non-standard port `2121`. You have lists of potential usernames and passwords stored in `usernames.txt` and `passwords.txt`, respectively. To test these credentials against the FTP service, use the following Hydra command:

```
Hydra
MisaelMacias@htb[/htb]$ hydra -L usernames.txt -P passwords.txt -s 2121 -V ftp.example.com ft
```

This command instructs Hydra to:

- Use the list of usernames from the `usernames.txt` file.
- Use the list of passwords from the `passwords.txt` file.
- Target the FTP service on `ftp.example.com` via port `2121`.
- Use the `ftp` module and provide verbose output (`-V`) for detailed monitoring.

Hydra will attempt to match each username-password combination against the FTP server on the specified port.

## Brute-Forcing a Web Login Form

Suppose you are tasked with brute-forcing a login form on a web application at `www.example.com`. You know the username is "admin," and the form parameters for the login are `user=^USER^&pass=^PASS^`. To perform this attack, use the following Hydra command:

```
Hydra
MisaelMacias@htb[/htb]$ hydra -l admin -P passwords.txt www.example.com http-post-form "/Logi
```

This command instructs Hydra to:

- Use the username "admin".
- Use the list of passwords from the `passwords.txt` file.
- Target the login form at `/login` on `www.example.com`.
- Employ the `http-post-form` module with the specified form parameters.

- Look for a successful login indicated by the HTTP status code **302**.

Hydra will systematically attempt each password for the "admin" account, checking for the specified success condition.

## Advanced RDP Brute-Forcing

Now, imagine you're testing a Remote Desktop Protocol (RDP) service on a server with IP **192.168.1.100**. You suspect the username is "administrator," and that the password consists of 6 to 8 characters, including lowercase letters, uppercase letters, and numbers. To carry out this precise attack, use the following Hydra command:

```
Hydra
MisaelMacias@htb[/htb]$ hydra -l administrator -x 6:8:abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ
```

This command instructs Hydra to:

- Use the username "administrator".
- Generate and test passwords ranging from 6 to 8 characters, using the specified character set.
- Target the RDP service on **192.168.1.100**.
- Employ the **rdp** module for the attack.

Hydra will generate and test all possible password combinations within the specified parameters, attempting to break into the RDP service.

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