

OVERVIEW

Zydra is one of the easy and simple tools for file password recovery and it helps to crack the password of Linux shadow files. It contains a dictionary attack or the Brute force technique for recovering the passwords. This tool can recover passwords of these file types:

- **PDF Files**
- **ZIP Files**
- **RAR Files**

Installation of Zydra:

We can find Zydra on **its** GitHub repository but before that, we will install some dependencies to work with Zydra perfectly.

First of all, we update our system by using the following command:

```
sudo apt-get update
```

Then we download some dependencies by using the following command:

```
sudo apt-get install qpdf unrar
```

The above command will install qpdf and unrar on our system as we can see in the following screenshot:

```

kali@kali:~$ sudo apt-get install qpdf unrar
[sudo] password for kali:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  libpolymouth0
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libqpdf2 qpdf unrar
The following NEW packages will be installed:
  libqpdf2 qpdf unrar
0 upgraded, 3 newly installed, 0 to remove and 1034 not upgraded.
Need to get 1,142 kB of archives.
After this operation, 2,960 kB of additional disk space will be used.
Do you want to continue? [Y/n]
Get:1 http://kali.download/kali kali-rolling/main amd64 libqpdf2 amd64 10.0.4-1 [466 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 qpdf amd64 10.0.4-1 [334 kB]
Get:3 http://kali.download/kali kali-rolling/non-free amd64 unrar amd64 1:6.0.3-1 [141 kB]
Fetched 1,142 kB in 4s (280 kB/s)

```

Then we need to install some Python3 modules using pip.

```
pip3 install rarfile pyfiglet py-term
```

These will be installed on our system after using the above command as we can see it.

```

kali@kali:~$ pip3 install rarfile pyfiglet py-term
Collecting rarfile
  Downloading rarfile-4.0-py3-none-any.whl (28 kB)
Requirement already satisfied: pyfiglet in /usr/lib/python3/dist-packages (0.8.post0)
Collecting py-term
  Downloading py-term-0.6.tar.gz (5.4 kB)
Building wheels for collected packages: py-term
  Building wheel for py-term (setup.py) ... done
  Created wheel for py-term: filename=py_term-0.6-py3-none-any.whl size=6268 sha256=523446b5140bae0efa21a4ad7157f46b262753b14d56e3f2797
  Stored in directory: /home/kali/.cache/pip/wheels/56/94/6b/bfaede5d55432b8dca77b2f537a1725d6c577
Successfully built py-term
Installing collected packages: rarfile, py-term
Successfully installed py-term-0.6 rarfile-4.0

```

Now we just need to download figlet font "epic" for Zydra by using the following command:

```
sudo wget http://www.figlet.org/fonts/epic.flf -O /usr/share/figlet/epic.flf
```

Now it's time to download the [Zydra from GitHub](#). Either we can clone the whole repository or we can just download the Python script. Let us download just the Python script by using the following command:

```
wget -O zydra.py  
https://raw.githubusercontent.com/hamedA2/Zydra/master/Zydra.py
```

The python script will be saved in our current working directory by the name of zydra.py.

```
(kali㉿kali)-[~]  
└─$ wget -O zydra.py https://raw.githubusercontent.com/hamedA2/Zydra/master/Zydra.py  
--2021-02-06 11:59:41-- https://raw.githubusercontent.com/hamedA2/Zydra/master/Zydra.py  
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.36.133  
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.36.133|:443 ... connected.  
HTTP request sent, awaiting response ... 200 OK  
Length: 30775 (30K) [text/plain]  
Saving to: 'zydra.py'  
  
zydra.py          100%[=====>] 30.05K  125KB/s  in 0.2s  
2021-02-06 11:59:48 (125 KB/s) - 'zydra.py' saved [30775/30775]
```

Now we can run the script. First of all, we check the help option by applying the following command:

```
python3 zydra.py --help
```

We can see the help menu of Zydra in the following screenshot:

```
kali@kali: ~  
File Actions Edit View Help  
  
ZYDRA  
Author : Maned Hosseini  
=====
```

Usage: zydra.py [options] [args]

Dictionary Mode:
zydra.py -f <file> -d <wordlist>

Brute force Mode:
zydra.py -f <file> -b <char_type> -m <min_length> -x <max_length>

Available char_type:
<lowercase> The lowercase letters abcdefghijklmnopqrstuvwxyz
<uppercase> The uppercase letters ABCDEFGHIJKLMNOPQRSTUVWXYZ
<letters> The concatenation of the lowercase and uppercase
<digits> numbers 0123456789
<symbols> punctuation characters !@#\$%^&*()-_+~`~'{}~"~"~"
<space> space character
You can select multiple character types.
Example: zydra.py -f <file> -b <space,digits> -m 1 -x 8

Options:
-h, --help show this help message and exit
-d DICTFILE Specifies dictionary file
-f FILE Specifies the file
-b CHARTYPE Specifies the character type

Password Cracking via Dictionary Attack:

Create ZIP file

We have to make a password-protected zip file in front of you to maintain transparency between us. Do not think so, just use the following command to create a zip file.

Command: `zip -password < your password > < give zip file name > < files that you want compressed >`

```
1 zip --password shubham secure.zip file1.txt file.txt
```

```
root@kali:~/Zydra# zip --password shubham secure.zip file1.txt file.txt rep.txt  
adding: file1.txt (stored 0%)  
adding: file.txt (stored 0%)  
adding: rep.txt (stored 0%)  
root@kali:~/Zydra#  
root@kali:~/Zydra# unzip secure.zip  
Archive: secure.zip  
[secure.zip] file1.txt password:  
  skipping: file1.txt          incorrect password  
  skipping: file.txt          incorrect password  
  skipping: rep.txt           incorrect password  
root@kali:~/Zydra#
```



```

##### # # ##### ##### #
# # # # # # #
# # # # # # #
# # # # ##### # #
ok # # # # # #####
# # # # # # #
##### # ##### # # #

Author : Hamed Hosseini

#####

Start time ==> Tue Nov 3 08:10:27 2020

Starting password cracking for /root/Zydra/secure.zip /

[*] Count of possible passwords: 1110
Progress : [#####] 21.081 %
[+] Password Found: 123

End time ==> Tue Nov 3 08:10:52 2020
Execution time ==> 0:00:25.215931

root@kali:~/Zydra#
root@kali:~/Zydra#
```