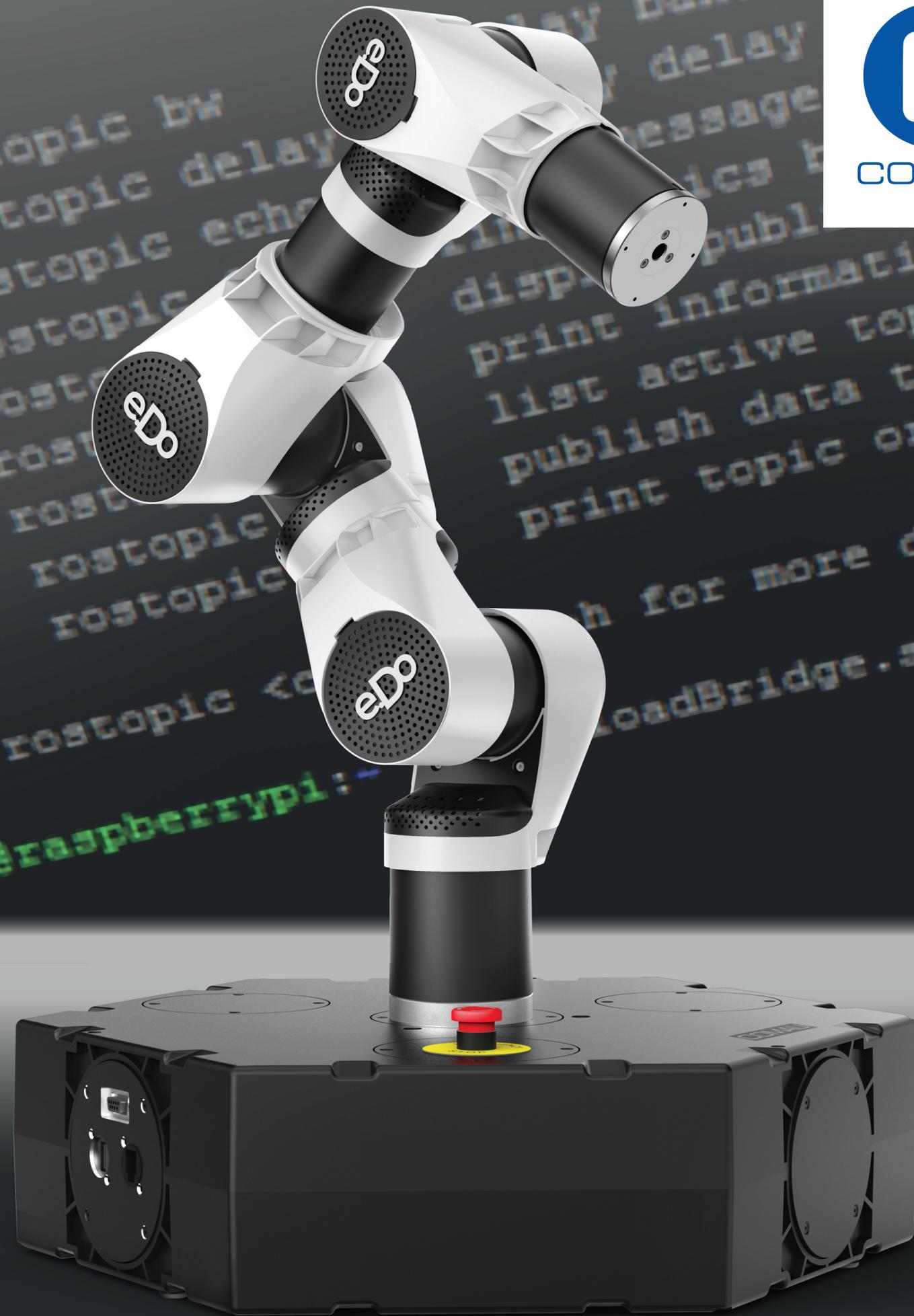


e.Do

SW Loading

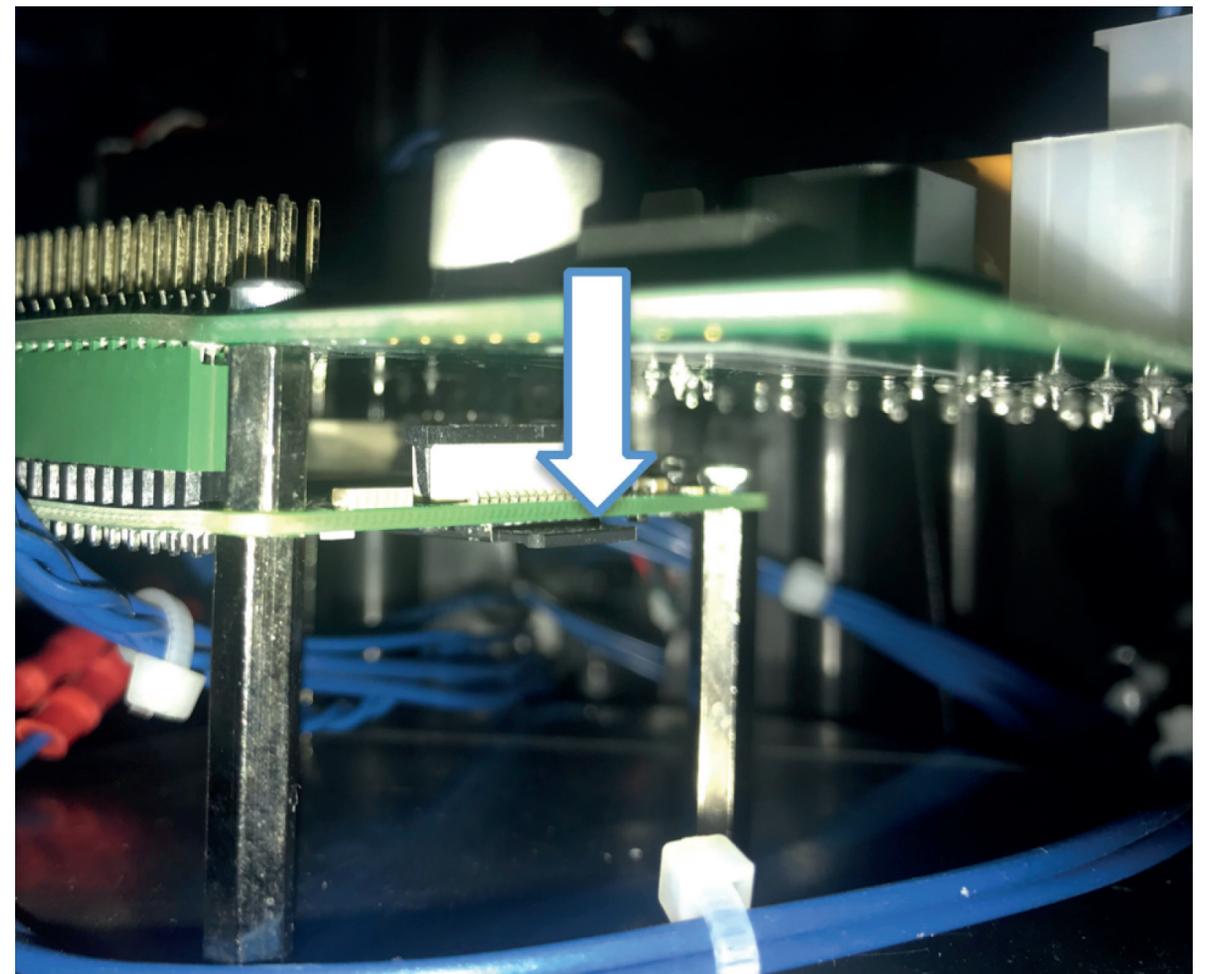


Open the base and remove the micro SD card

- 1 - Provide a size x allen key and remove the 4 screws on the side cover of the base, which is diametrically opposite the emergency stop button
- 2 - Remove the micro SD card (see photo) which is located underneath the Raspberry Pi (see photo) by taking it out



To carry out the procedure, you must be PC Administrator



Copy the new SW image to the SD card

- 3** - Insert the micro SD card into an SD card reader (use an adapter if necessary)
- 4** - From the internet, download the USB Image Tool program from the link <https://usb-image-tool.it.uptodown.com/windows>



- 5** - Extract the contents of the package

Nome	Tipo	Dimensione compr...
license	Documento di testo	1 KB
USB Image Tool	Applicazione	39 KB
USB Image Tool Helper.dll	Estensione dell'applicazio...	12 KB
usbit32	Documento di testo	2 KB
usbit32.dll	Estensione dell'applicazio...	97 KB
usbitcmd	Applicazione	103 KB

- 6** - Launch USB Image Tool

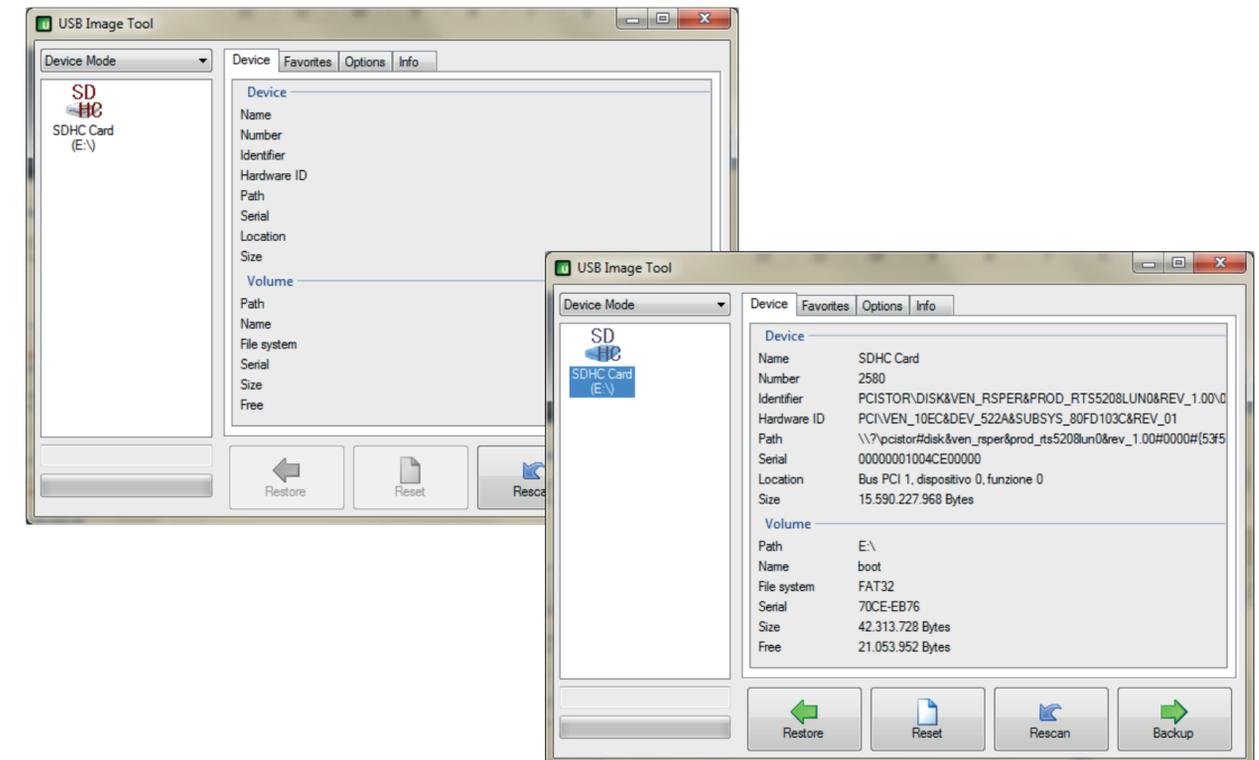
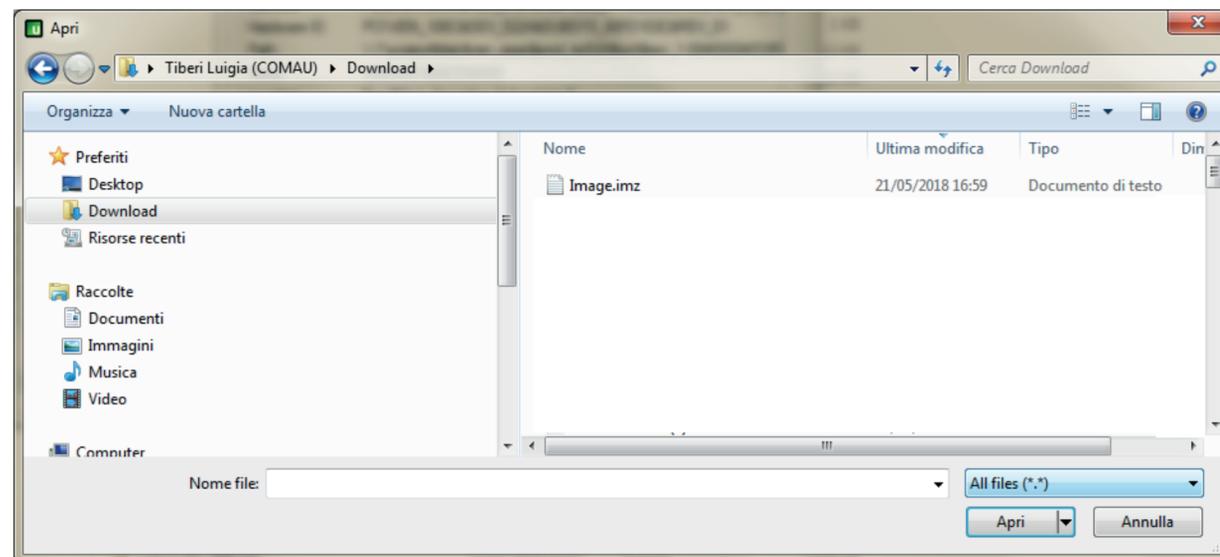
license	21/05/2018 16:46	Documento di testo	2 KB
USB Image Tool Helper.dll	21/05/2018 16:46	Estensione dell'ap...	32 KB
USB Image Tool	21/05/2018 16:46	Applicazione	97 KB
usbit32.dll	21/05/2018 16:46	Estensione dell'ap...	171 KB
usbit32	21/05/2018 16:46	Documento di testo	6 KB
usbitcmd	21/05/2018 16:46	Applicazione	183 KB



The SW to be downloaded is not the property of Comau, therefore the administrator is responsible for it

Copy the new SW image to the SD card

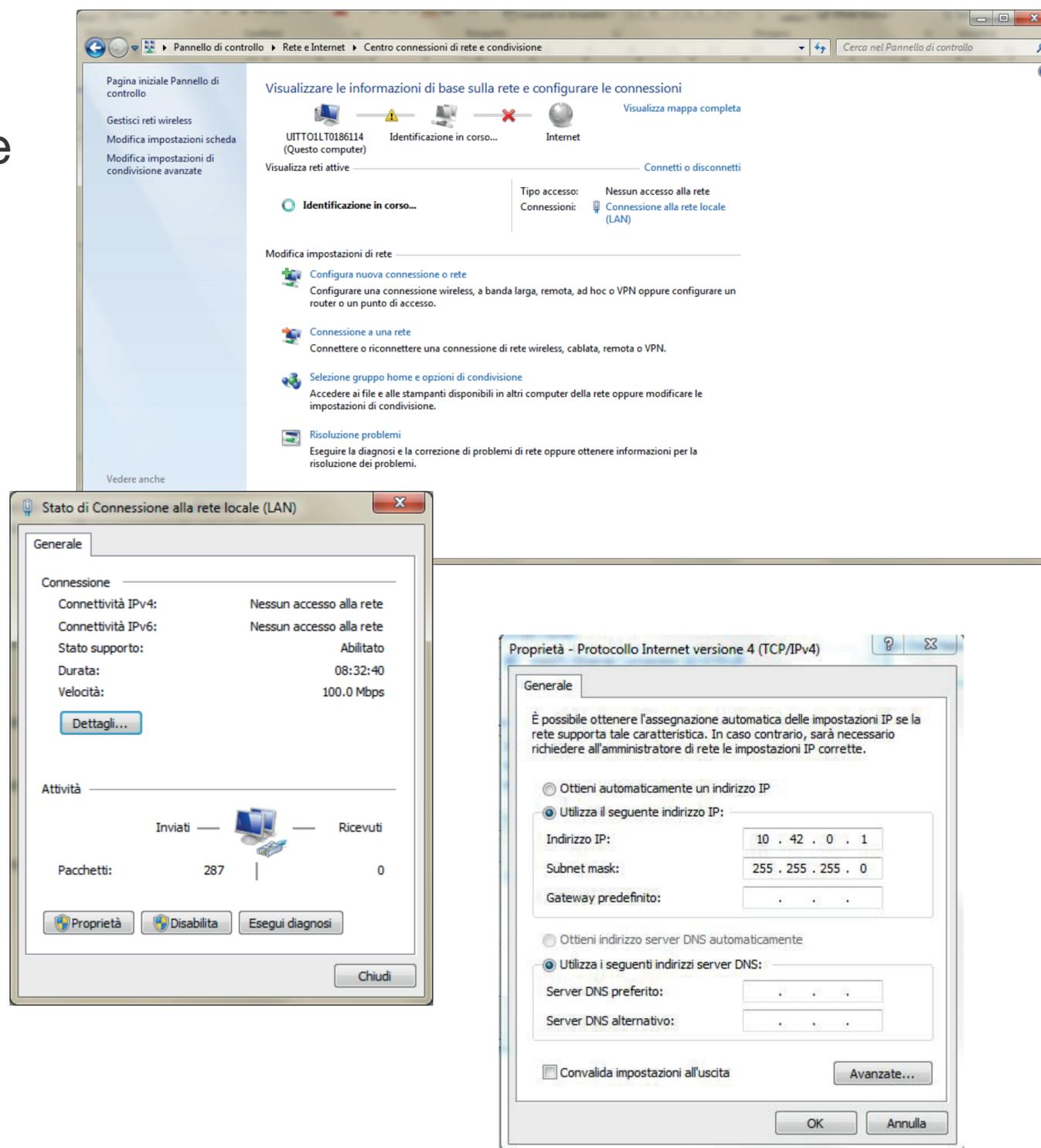
- 7 - Select the Device SDHC Card
- 8 - Click on Restore
- 9 - Open the file path, select the image and "Open"



- 10 - In the confirm panel under the "do you want restore image?" question, select YES
- 11 - Wait for the procedure to be completed and remove the micro SD
- 12 - Reinsert the micro SD card inside the base under the Raspberry Pi being careful about its correct side

Connection with e.DO

- 13 - Switch on e.DO using the green button
- 14 - Connect the PC to e.DO via ethernet cable
- 15 - Enter the control panel
- 16 - Select Network and Internet
- 17 - Click on Network and Sharing Center
- 18 - Select "Connection to the local network"
- 19 - Select "Properties"
- 20 - Setting the IP address



Download and install the SSH PuTTY

- 21** - Download the SSH PuTTY client from the link <https://www.putty.org/>

The screenshot shows the PuTTY website with a blue arrow pointing to the 'putty.exe' link under the 'Alternative binary files' section. Below the website, the PuTTY Configuration dialog box is shown with the following settings:

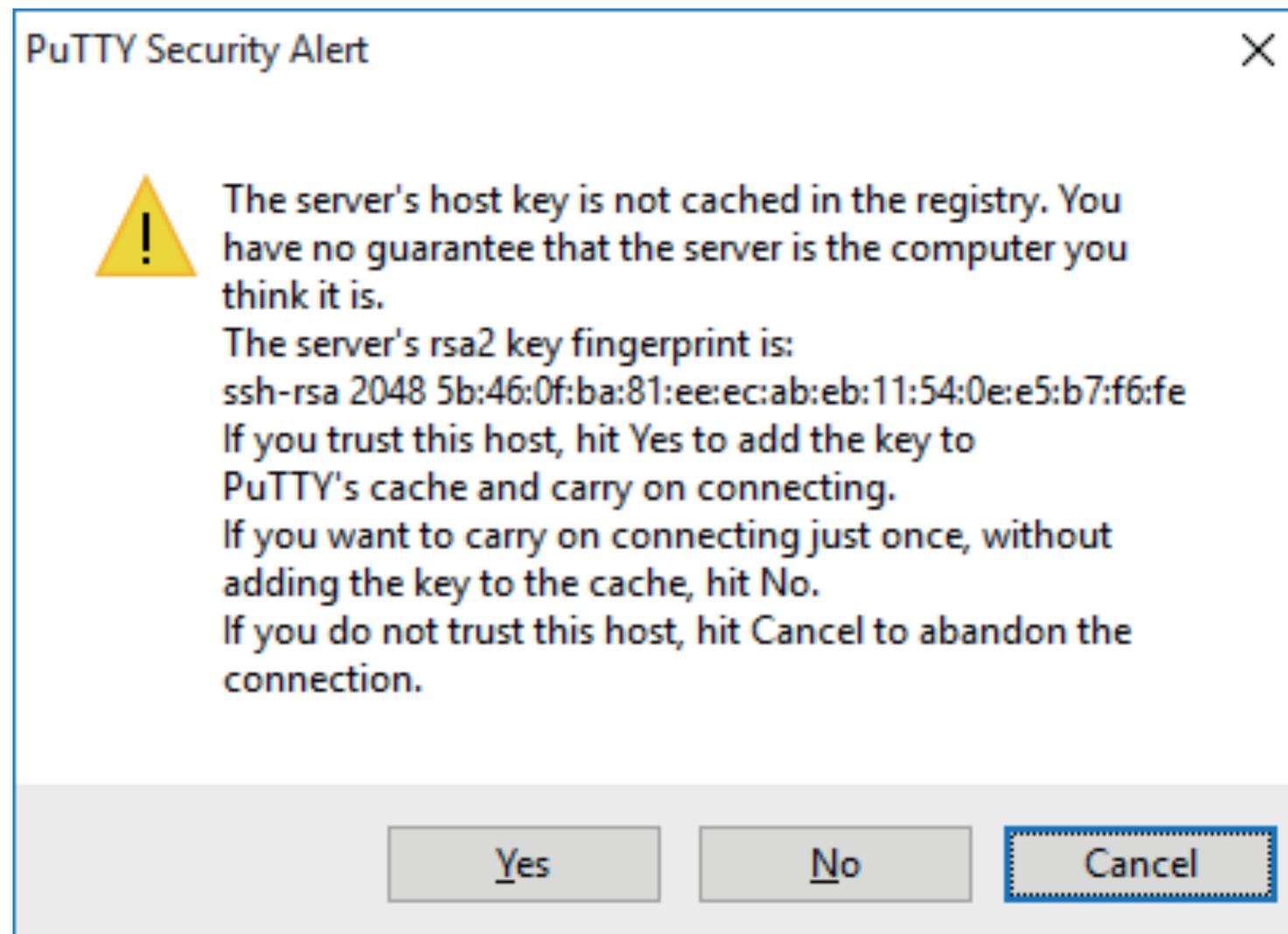
- Category: SSH
- Host Name (or IP address): 10.42.0.49
- Port: 22
- Connection type: SSH
- Close window on exit: Only on clean exit

- 22** - Launch PuTTY.exe and enter IP 10.42.0.49.
The default port is 22

- 23** - Select Open

Connection with PuTTY

- 21** - The first time you connect with PuTTY you will be asked to accept the SSH key. Accept the key by selecting yes



Access to the e.DO command line

25 - Once this is done, you can access the e.DO command line:

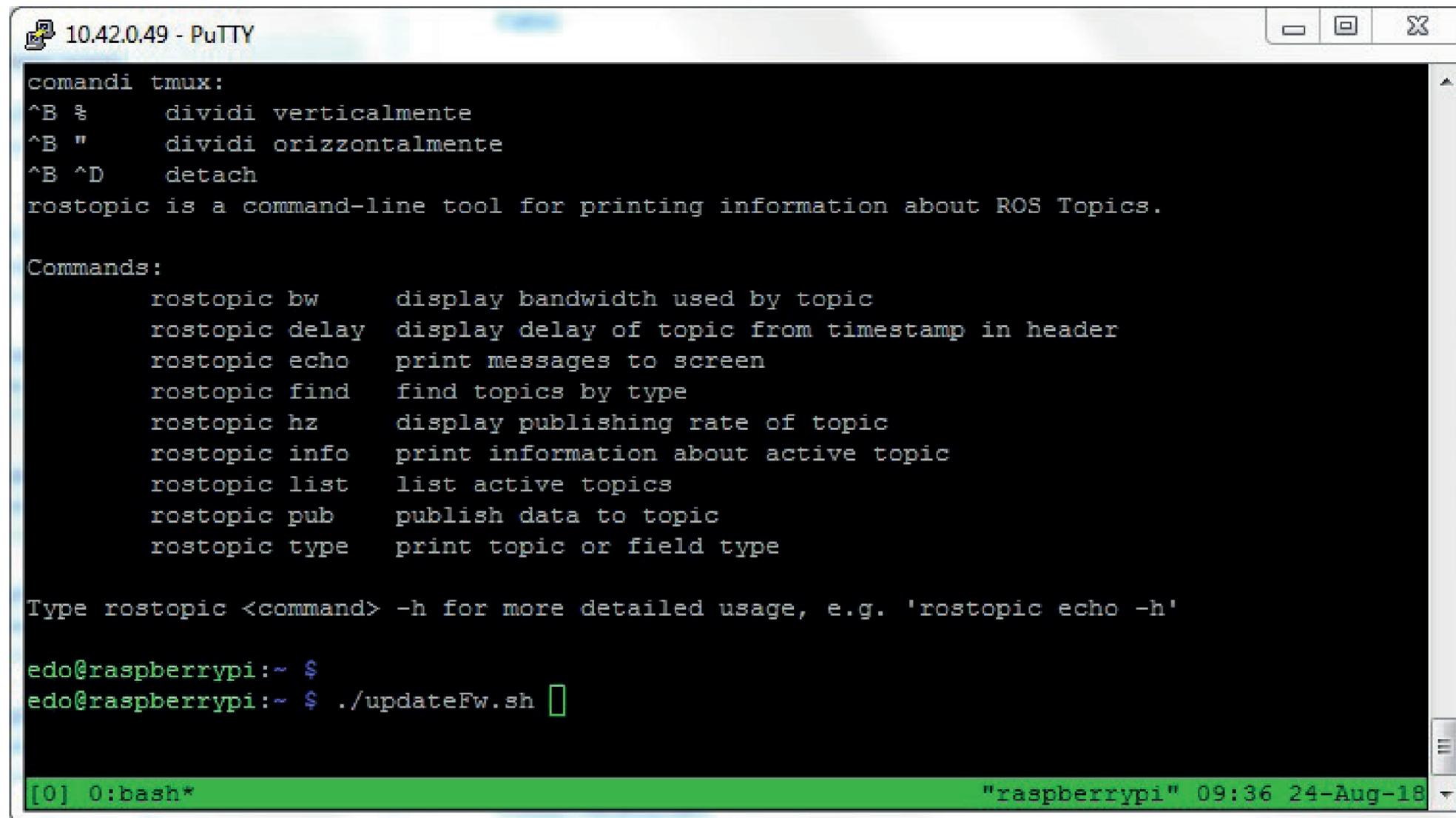
26 - Insert username: edo and password: raspberry

and enter the docker with the following command: `sudo docker exec -it edo bash`

```
login as: edo
edo@172.22.179.128's password: [ ]
```

Start the update

27 - Start the update with the following command: `./updateFw.sh`



```
10.42.0.49 - PuTTY
comandi tmux:
^B %   dividi verticalmente
^B "   dividi orizzontalmente
^B ^D  detach
rostopic is a command-line tool for printing information about ROS Topics.

Commands:
  rostopic bw      display bandwidth used by topic
  rostopic delay   display delay of topic from timestamp in header
  rostopic echo    print messages to screen
  rostopic find    find topics by type
  rostopic hz      display publishing rate of topic
  rostopic info    print information about active topic
  rostopic list    list active topics
  rostopic pub     publish data to topic
  rostopic type    print topic or field type

Type rostopic <command> -h for more detailed usage, e.g. 'rostopic echo -h'

edo@raspberrypi:~ $
edo@raspberrypi:~ $ ./updateFw.sh [ ]

[0] 0:bash* "raspberrypi" 09:36 24-Aug-18
```

28 - Wait until the firmware upload is complete and turn off e.DO.
The update procedure is complete



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