# Reinstall Raspberry Pi OS Buster, BlueOS and ROS

Reinstall Raspberry Pi OS Buster and BlueOS

Reference:
https://github.com/discoimp/BlueOS-PlatformSwitch/tree/discoimp-Buster-BlueOS
https://www.tomshardware.com/reviews/raspberry-pi-headless-setup-how-to,6028.html
Backup to .img: https://all3dp.com/2/back-up-raspberry-pi-sd-card/

### SD-Card preparing

Insert your SD-card in your laptop/SD-Card reader.
Install Raspberry pi's image burner:

```
sudo snap install rpi-imager
```

run it and choose Raspberry Pi OS (other) and select Raspberry Pi OS Lite (Legacy) (Buster)

Click the settings button or hit CTRL + Shift + X to bring up the settings menu.


Set host name, SSH, WIFi.

Write to SD card.

### access BlueROV

Plug BlueROV through USB.

Open PuttY.
Hostname: raspberrypi.local

### BlueOS install

Methord 1:

```
sudo apt update
```

Install git

```
sudo apt-get install git
```

Install docker
https://docs.docker.com/engine/install/debian/

```
sudo su -
mkdir github
cd github
git clone https://github.com/bluerobotics/BlueOS-docker.git
cd BlueOS-docker/
sudo bash install/install.sh
```

Methord 2(Not working):

Now we can run the install script for BlueOS

```
sudo su -c 'curl -fsSL https://raw.githubusercontent.com/bluerobotics/blueos-docker/master/install/install.sh | bash'
```

Methord 3(Not working):

```
sudo nano install.sh
```

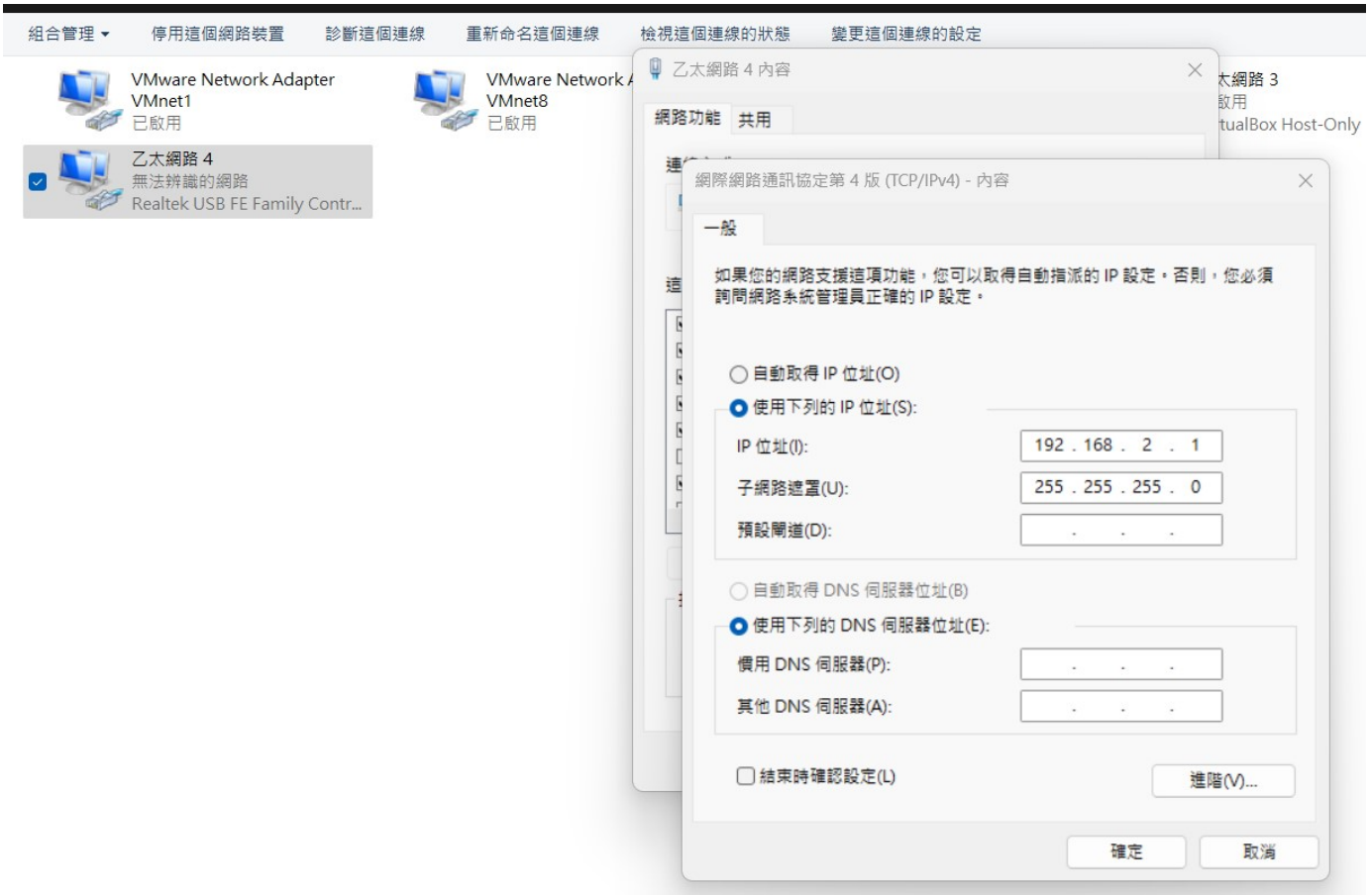
copy and paste install.sh code from the site: https://github.com/bluerobotics/BlueOS-docker/blob/master/install/install.sh

```
sudo bash install.sh
```

### Change IP address

The Pi should automatically restart.

Change IP address for BlueROV to 192.168.2.1 (Yes not 192.168.2.2)




and you can access it as BlueOS at 192.168.2.2.

### Backup your SD-card

Use Win32DiskImager
Choose the Device (USB)
CHoose the location and the name for .img
Press "Read"

### Install ROS

Follow the folow guide:
https://www.instructables.com/ROS-Melodic-on-Raspberry-Pi-4-RPLIDAR/