Virtual Machine (VMware)

This is a generic guide to installing CubeOS on VMware, the host can be an old PC, or a MCU.

1. Preparation:

Download the CubeOS image

Visit this <u>repo</u> → to download the latest image. Please extract the image after downloading.

2 Install VMware

Download and install a virtual machine manager, with <u>VMware Workstation</u> being recommended.

- Have other virtual machine managers? The following steps can theoretically be used as well.
- Unfamiliar with virtual machines and owning a Raspberry Pi? You can choose to install CubeOS on a Raspberry Pi.
- If none of these options are viable, you can purchase an iHost with built-in CubeOS from the SONOFF official website or platforms like Amazon.

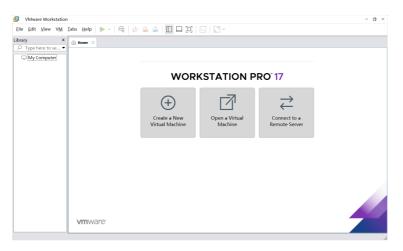
3 Zigbee Adapter (Optional)

If you need to add Zigbee devices, prepare a Zigbee Dongle. Tested Zigbee Dongles include:

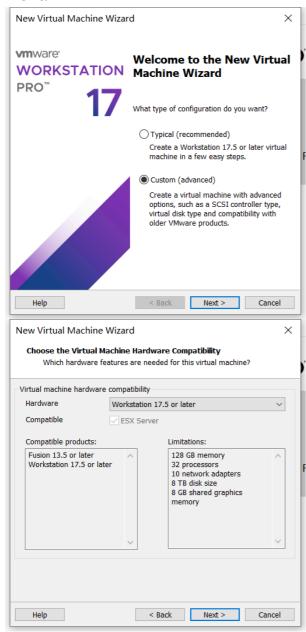
- SONOFF ZBDongle-E(Recommended)
- Easyiot ZB-GW04
- SMLIGHT SLZB-07
- SMLIGHT SLZB-06M
- i Visit How to Flash Dongle Firmware → for more details.
- For more information on Zigbee configurations and compatibility, please refer to this <u>guide</u>.

2. Create a Virtual Machine

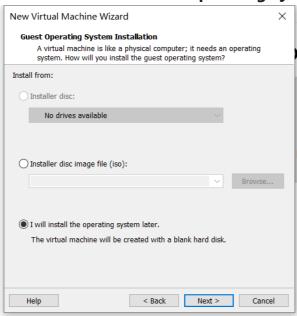
1 Launch VMware, Select "Create a New Virtual Machine" (+).



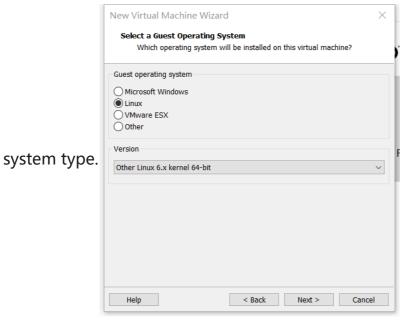
Choose **Custom**, click **Next**. Hardware-**Workstation 17.5 or later,** click **Next**.



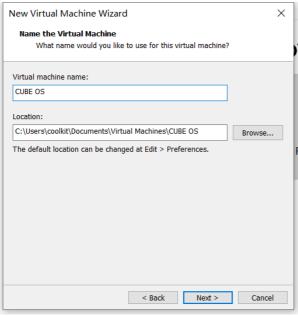
Choose I will install the operating system later, click Next.



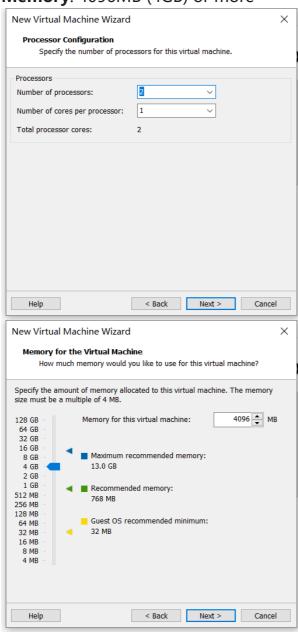
A Select Linux > Other Linux 6.x kernel (64-bit) as the guest operating



5 Name the VM as **CUBE OS** and choose a storage location.



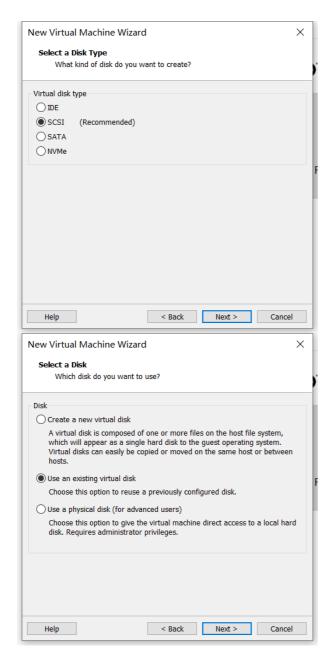
- 6 System Resources:
 - **Processors**: 2 cores
 - Memory: 4096MB (4GB) or more



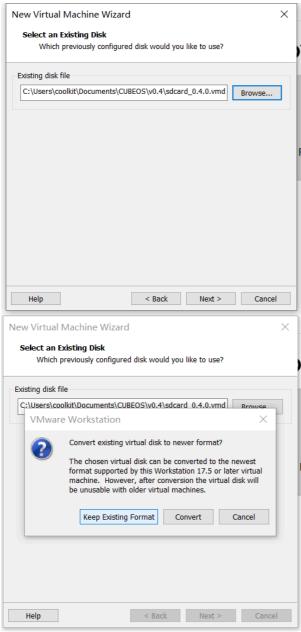
- 7 Network / I/O Controller Types:
 - Set Network Adapter to Bridged mode (important for LAN access and discovery).
 - Set Controller Type to LSI Logic (required for compatibility with the



8 Select a Disk Type SCSI(Recommended), Use an existing virtual disk.



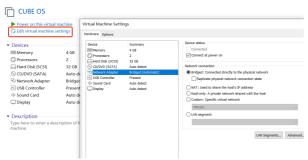
9 Click **Browse**, then select the CUBE OS .vmdk and **Keep Existing Format**.



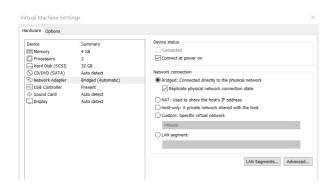
10 Click "Finish" to create the virtual machine.

3. Configure the Virtual Machine

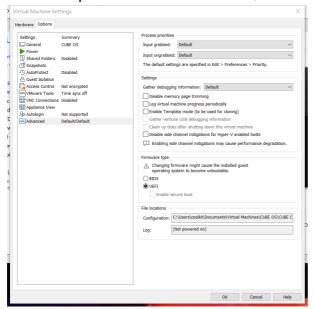
1 Select the created virtual machine and click the "Settings" 🕝 button.



Under the "Network" tab, confirm the network connection as "**Bridged**" and select **Replicate physical network connection state**.



3 Under "Options"-"Advanced" tab, set Firmware type to UEFI.



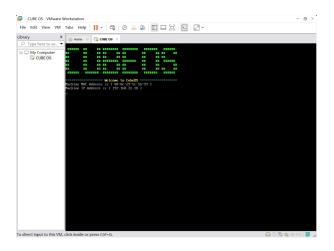
Optional: If using a Zigbee USB dongle, ensure USB Controller is added.
Under USB Controller, enable Show all USB input devices.



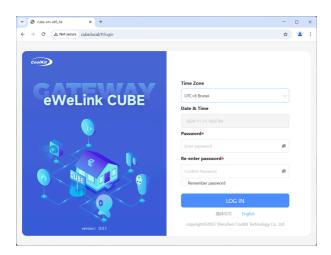
5 Click "OK" to save the configuration.

4. Boot CubeOS

- 1 Start the virtual machine.
- Wait a few moments for CUBE OS to initialize. Monitor the boot screen until the boot is complete.



Once completed, you will hear a series of chimes and see the CubeOS' IP displayed on the screen. Use this IP address or cube.local to access the CubeOS Web management page.



Upon successful access, a short ID can be viewed on the settings page.

Subsequently, access the CubeOS Web management page using cube
[short id].local, which is useful for differentiating multiple CubeOS instances on the same local network.

