

Virtualized Raspberry Pis

Windows: Raspberry Pi image setup and sanity check

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Objectives

Download and setup the Raspberry Pi images on Windows 10/11

Sanity check the Raspberry Pi images using qemu-system-arm

Gain understanding of the qemu-system-arm commands

Methods and tools

Create a **workshop** directory on your machine

In the workshop directory git clone <https://github.com/wonder-phil/RPi>

Download Raspberry Pi OS Lite IMG file from:

<https://www.raspberrypi.org/software/operating-systems/>

Convert the IMG file to a QCOW2 file

Boot the virtual Raspberry Pi using qemu-system-arm

Websites

If you do not have git on your Windows 10/11 machine, then install it:

<https://github.com/git-guides/install-git>

Raspberry Pi OS IMG files:

<https://www.raspberrypi.org/software/operating-systems/>