

IEEE UEMCON 2021 IoT Workshop

Introduction and Workshop preparation

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PREPARATION FOR DISTRIBUTED COMPUTING RASPBERRY PI WORKSHOP

Thank you for participating in this workshop!

Parts 1 and 2 should be completed a day or two in advance of the workshop. The workshop is Part 3.

LIMITATIONS

No Chromebooks

No tablets (iPads, Android)

Only MacOS and Windows 10, no Linux/Unix machines

We are experimenting with Apple Silicon (M1). We believe it will work fine.

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SHOULD HAVE

Windows 10 (20H2)

MacOS BigSur

Assuming at least 15 Mb download speed

Assuming 50 GB free of SSD or free hard disk

Ideally at least 8 GB of RAM

PART 1 AND PART 2 GOALS

1. Install QEMU
2. Sanity test QEMU for ARM images
3. Download Raspberry Pi image
4. Test Raspberry Pi image on QEMU

STRATEGY

Prepare your machine for the workshop well in advance. Parts 1 and 2 should be completed one or two days in advance.

TACTICS

Part1 has two major steps

	Windows	MacOS
Install QEMU	Video + Notes	Video + Notes
Sanity test QEMU		

Part 2 has two major steps

	Windows	MacOS
Download Raspberry Pi image	Video + Notes	Video + Notes
Test Raspberry Pi image on QEMU	Video + Notes	Video + Notes

Now you should be ready for the workshop in Part 3!