Blockchain Technical Notes

Introduction Virtualized Raspberry Pis

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PREPARATION FOR DISTRIBUTED COMPUTING RASPBERRY PI WORKSHOP

Thank you for participating!

Parts 1 and 2 are about setting up the virtual Raspberry Pis.

Parts 1 and 2 may take several hours depending on your internet speed.

LIMITATIONS

We limit our set up discussion here to Windows 10/11 and MacOS.

No Chromebooks

No tablets (iPads, Android)

Only MacOS and Windows 10/11, no Linux/Unix machines

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These systems may work fine for our virtualized systems here. However, we do not discuss their setups here.

SHOULD HAVE

Windows 10 (20H2) or Windows 11

MacOS BigSur

At least 15 Mb download speed

At 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 virtual Raspberry Pi image on QEMU

STRATEGY

Set aside a few hours to complete parts 1 and 2. Consider the system set up as a project of its own.

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

Once you complete Parts 1 and 2 you should be ready to build clockchains on virtual Raspberry Pis.