XDC 2023 - CI workshop

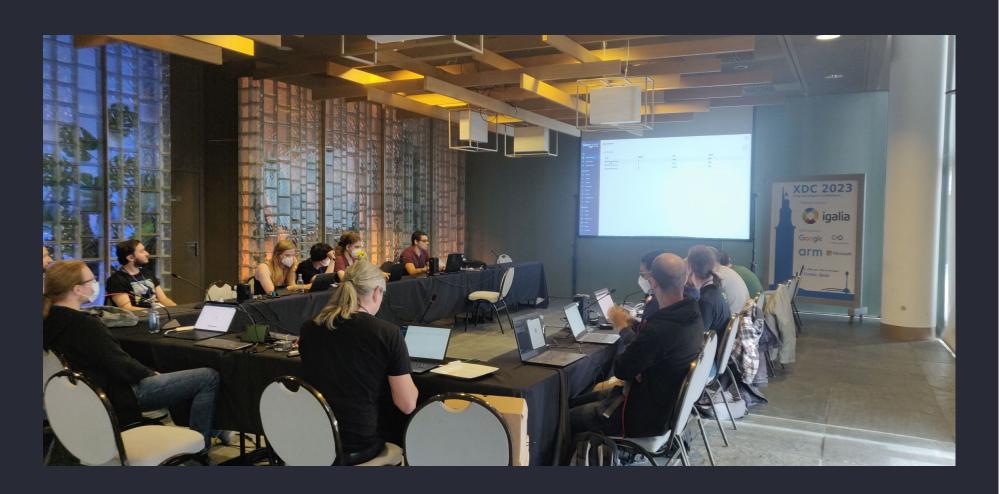
The plan, reality, and discussions

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The plan

- Provide an overview of the system
- Walk attendees through our instructions:
 - Setup the hardware PDU
 - Discover the DUT and expose it on GitLab
 - Use the DUT in GitLab CI
- Let attendees try their hands on the provided 3 gateways and 6 DUTs



Reality

- Provided an overview of the system
- Walked attendees (~15) through our instructions:
 - Setup the gateway / PDU
 - Discover the DUT and expose it on GitLab
 - Use the DUT in GitLab CI
- Let attendees try their hands on the provided 3 gateways and 6 DUTs

Discussion

Fastboot support

- Treat USB hotplugs like an PXE/iPXE request
- Try to use fastboot on every new USB hotplug
- Use fastboot to get the machine's serial ID, then send the boot config

Discussion

Apple M1/2 support

- Use m1n1 to control the boot process
- Shows up as a fixed USB device ID for the control channel and serial logs
- Use the machine's serial ID as a machine ID
- Will require adding support for more parameters (m1n1 binary, firmware version)

Discussion

Boot2container support for using unpartitioned space between partitions

- Needed for Asahi Linux (recovery partition is always at the end of the disk)
- Should be easy

