

Providing ARM and GPU resources in the CERN Private Cloud Infrastructure

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The CERN Cloud Infrastructure service has recently commissioned a set of ARM and GPU nodes as hypervisors. This presentation will cover all the steps required to prepare the provisioning of ARM based VMs: the creation of multi-arch docker images for our GitLab pipelines, the preparation of ARM user images, or adaptations to the PXE and Ironic setup to manage this additional architecture. There would be also presented an overview of Cloud GPU resources and explained the difference between PCI passthrough, vGPU and multi-instance GPU.

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