

Highlights: On-demand provisioning of HEP compute resources on cloud sites and shared HPC centers

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on cloud sites and shared HPC centers

- Our institute runs a flexible computing system which is able to leverage resources from multiple sources:

Shared HPC System

- VM requests get scheduled alongside bare-metal jobs of other user communities
- up to 11k virtual cores, so far 5 million CPU hours

Local Opportunistic Resources : Docker

1&1 Internet Cloud Server

- Commercial Cloud provider, seamless integration at night
- Job and VM lifecycle management via:
 - HTCondor** - for job submission and management
 - ROCED** - for provisioning of remote resources
- This dynamic model gradually replaces our Institute's private HEP-only cluster in the basement: **both in ease of use and capacity**

