



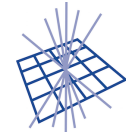
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Using container orchestration to improve service management at the RAL Tier 1

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GridPP
UK Computing for Particle Physics

Highlights

- At the RAL Tier-1 site there is a need to
 - reduce the effort required to manage services
 - have a more flexible environment for handling the needs for an increasing number of new experiments and communities
- One way to do this is to make two fundamental changes to the way services are deployed
 - run applications in containers
 - manage applications using a scheduler
- Setup at RAL
 - Apache Mesos
 - Marathon for managing long-running services
 - A custom framework for managing HTCondor worker nodes
- In this talk we will describe our experiences
 - Managing a Mesos cluster consisting of over 6000 cores
 - Running services on Mesos
 - Running real production jobs from all LHC experiments on Mesos