

The background image shows the ATLAS detector, a large particle detector at CERN. It features a complex structure of metal frames, pipes, and various components, with a prominent circular structure on the left side. The lighting is somewhat dim, highlighting the intricate details of the detector's construction.

ATLAS Cloud Computing Evolution

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For

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The background image shows the ATLAS detector, a large particle detector used in high-energy physics experiments. It features a complex structure of metal frames, pipes, and various components, with a prominent circular structure on the left side. The lighting is dramatic, highlighting the metallic surfaces and the intricate design of the detector.

Cloud computing in ATLAS

- ◆ ATLAS Collaboration has been interested in virtualization and cloud technologies for quite some time
- ◆ The goal is to understand how ATLAS can benefit from cloud technologies in computing
- ◆ This activity is still framed as R&D project, with several sites and groups already running on various IAAS platforms in production mode
 - ◆ PanDA monitoring page for ATLAS cloud queues
 - ◆ <http://pandamon-eu.atlascloud.org/vcloud>
- ◆ We have experience with various public, private and hybrid cloud platforms and providers
 - ◆ Many of these will be discussed in the next few days



Goals of the meeting

- ◆ To discuss current state of adaptation and usage of virtualization and cloud technologies by ATLAS Computing Facilities
 - ◆ Will have talks from facilities of all levels - T0, T1, T2 and T3
- ◆ To assess best cloud computing practices and technologies that are currently used in ATLAS and elsewhere.
- ◆ To facilitate exchange of information between people who are using cloud technologies for ATLAS computing and people who are interested in using them in their sites
- ◆ To understand what we can support and where we can help
 - ◆ Common solutions and tools.
- ◆ Determine future activities and R&D directions
- ◆ The plenary is rather tight today, but there is some time for discussion during the splinter meeting tomorrow and we invite interested people to attend