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GridKa Tier1 Site Management

Monday, September 3, 2007 8:00 AM (20 minutes)

GridKa is the German Tier1 centre in the Worldwide LHC Computing Grid (WLCG). It is part of the Institut für Wissenschaftliches Rechnen (IWR) at the Forschungszentrum Karlsruhe (FZK). It started in 2002 as the successor of the "Regional Data and Computing Centre in Germany" (RDCCG)

GridKa supports all four LHC experiments, ALICE, ATLAS, CMS and LHCb, four non-LHC high energy physics experiments as well as an astrophysics experiment and geclipse, a project that concentrates on the development of tools for existing Grid infrastructures..

In this presentation we will give an overview of the site fabric management and fabric management tools. The usage of Rocks tool kit for worker node cluster installation is discussed.

Most of the grid middleware services are deployed in Xen-based virtual machines on a variety of physical machines.

We describe the integration of Yaim and Cfengine for installation and configuration of middleware services.

We will also show how tools like Nagios and Cfengine can be combined to initiate recovery actions to ensure functionality of middleware services.

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