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## **Lxcloud: A Prototype for an Internal Cloud in HEP. Experiences and Lessons Learned**

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In 2008 CERN launched a project aiming at virtualising the batch farm. It strictly distinguishes between infrastructure and guests, and is thus able to serve, along with its initial batch farm target, as an IaaS infrastructure, which can be exposed to users. The system was put into production at small scale at Christmas 2010, and has since grown to almost 500 virtual machine slots in spring 2011. It was opened to test case users deploying CERNVM images on it, which opened new possibilities for delivering IT resources to users in a cloud-like way. This presentation gives an overview over the project, its evolution and growth, as well as the different real-life use cases. Operational experiences and issues will be reported as well.

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