## **HEPiX Fall 2012 Workshop**



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## **CERN and Helix Nebula, the Science Cloud**

Thursday, 18 October 2012 17:00 (30 minutes)

Helix Nebula, the Science Cloud, is a collaborative effort of several European organizations, including CERN, ESA and EMBL, to engage with European industry in public-private partnerships to build a European cloud infrastructure capable of supporting the missions of these organisations.

During the initial pilot phase of Helix Nebula, the ATLAS experiment at CERN was selected as one of the flagship projects and a proof-of-concept phase was defined in order to demonstrate the feasibility of integrating commercial cloud facilities into the ATLAS distributed computing infrastructure.

This talk will outline the status of Helix Nebula and present the results of the ATLAS use-case in particular. Three commercial cloud providers with varied infrastructures were tested; all were successfully able to run ATLAS simulation jobs, though the paths to success at some providers were more difficult than others. We will give an insight into the lessons learned, the technical recommendations for the suppy side and some of the future work in the Helix Nebula partnership.

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