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FermiCloud update - enabling scientific workflows in the cloud

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In 2010, Fermilab initiated the FermiCloud project to deliver a dynamic and scalable Infrastructure-as-a-Service (IaaS) capability using open source cloud computing frameworks to support the needs of the Fermilab scientific communities. A collaboration of personnel from Fermilab and the Korea Institute of Science and Technology Information (KISTI) has focused significant work over the past 18 months to deliver improvements to the applicability and robustness of FermiCloud, together with specific accomplishments with respect to direct and indirect support of science.

The opportunities, challenges and successes of cloud computing at Fermilab will be presented, including:

- GridBursting to FermiCloud: extending the grid through the cloud
- Idle VM suspension
- FermiCloud interoperability

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