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# The High-Availability FermiCloud Infrastructure-as-a-Service Facility

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FermiCloud is an Infrastructure-as-a-Service private cloud built for the support of scientific computing at Fermilab. Within the past year we have deployed a facility capable of providing 24x7 service. We will present significant advances in monitoring and visualization, accounting, security, authorization, and user interface. We will also present our current plans for multi-cloud interoperability.

## Summary

FermiCloud has recently updated to a new version of OpenNebula and deployed the X.509 authentication features which were our contribution to OpenNebula. We have split our hardware between two different buildings such that we can survive the failure of either one.
We have deployed new monitoring and visualization of system usage and
availability. We have a proof-of-principle of XACML-based callouts
for X.509-based authorization as well.

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