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# VOMS-aware identity service for Openstack

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## Impact

The main impact of this work is the integration of a well established grid framework (VOMS) into the authentication and authorization chain in the Openstack cloud middleware. This makes possible for the current EGI users and administrators to use an existing and well known tool for the authentication, authorization and group management. Moreover, the usage of VOMS opens the door to the integration and adaptation of existing Grid tools (job submission, data management, monitoring, etc.) so that they can be used against a Cloud testbed, making possible a better integration and federation of the cloud resources.

## Summary

Cloud testbeds are being deployed more and more by EGI resource providers, creating an heterogeneous ecosystem with different middleware stacks. The software used across the sites is normally non designed to be operated in a federated way, such as the EGI Grid testbed is currently used. In this work we present the implementation of a VOMS-aware Openstack identity service (Keystone) and the deployment in a federated testbed with different resource providers and middleware stacks.

## Description

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