# GLINT

# VM IMAGE DISTRIBUTION IN A MULTI-CLOUD OPENSTACK ENVIRONMENT

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## Objective

Provide an image replication service managed through the command line interface (CLI) or OpenStack's Horizon dashboard, to aggregate image management over multiple cloud sites.

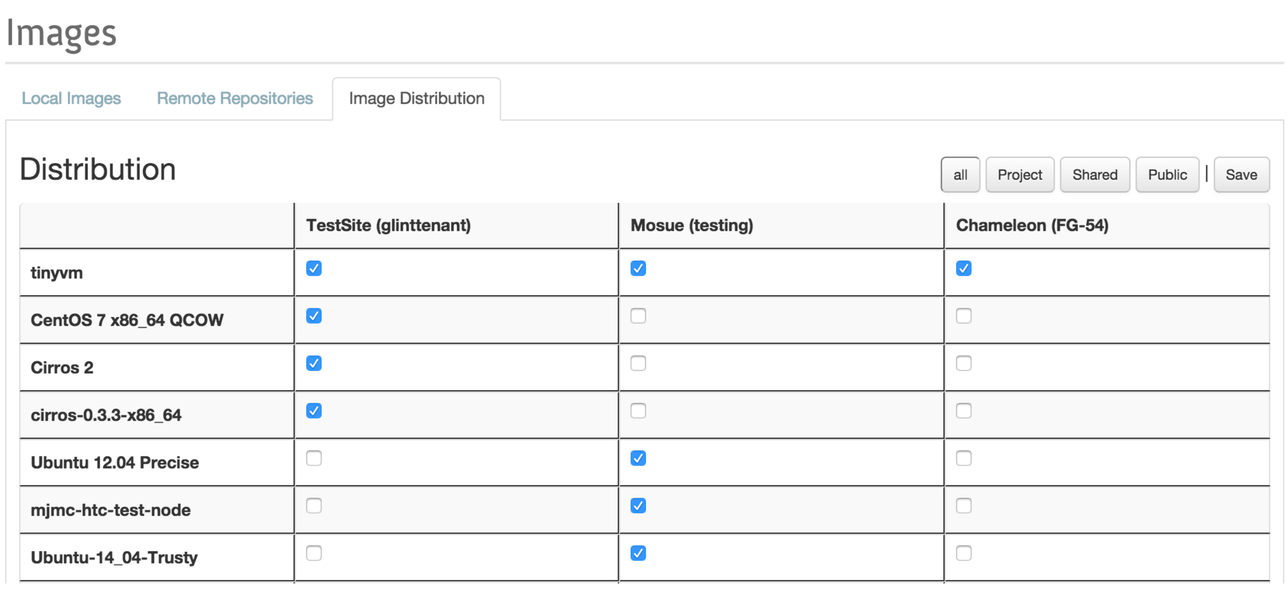
## Motivation

The popularity of cloud software (such as OpenStack) has increased the number of cloud providers. In order for users to utilize these clouds, they require credentials for each site. This results in an administrative burden when users want to manage VM images across many distributed clouds. For example, a user will need to login, and push/remove their images through the CLI or GUI at each site. Glint is designed to simplify the management of images on multiple clouds as well as minimize the likelihood of faults or human errors.

## Production

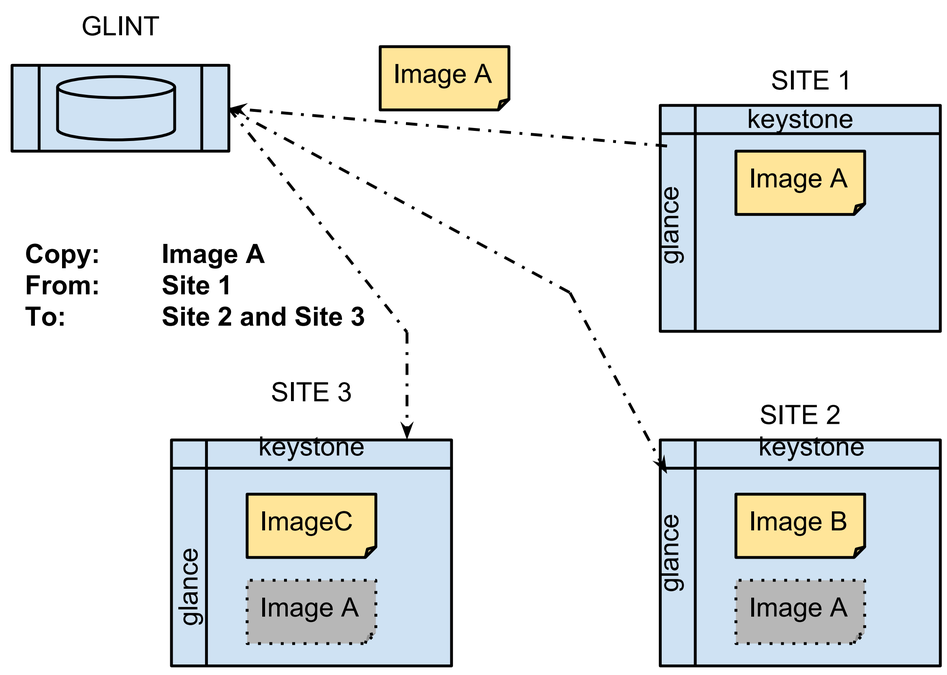
Glint is being used in a production environment as a support tool for ATLAS and Belle-II image management for sites used by CloudScheduler. The Glint project is managed through launchpad as required to be integrated with OpenStack.

## Simplified User Interface




## An OpenStack based Design

- To take advantage of OpenStack's Glance service for image distribution.
- To rely on OpenStack's Keystone service for user authentication.
- To use a secure mechanism to copy images.

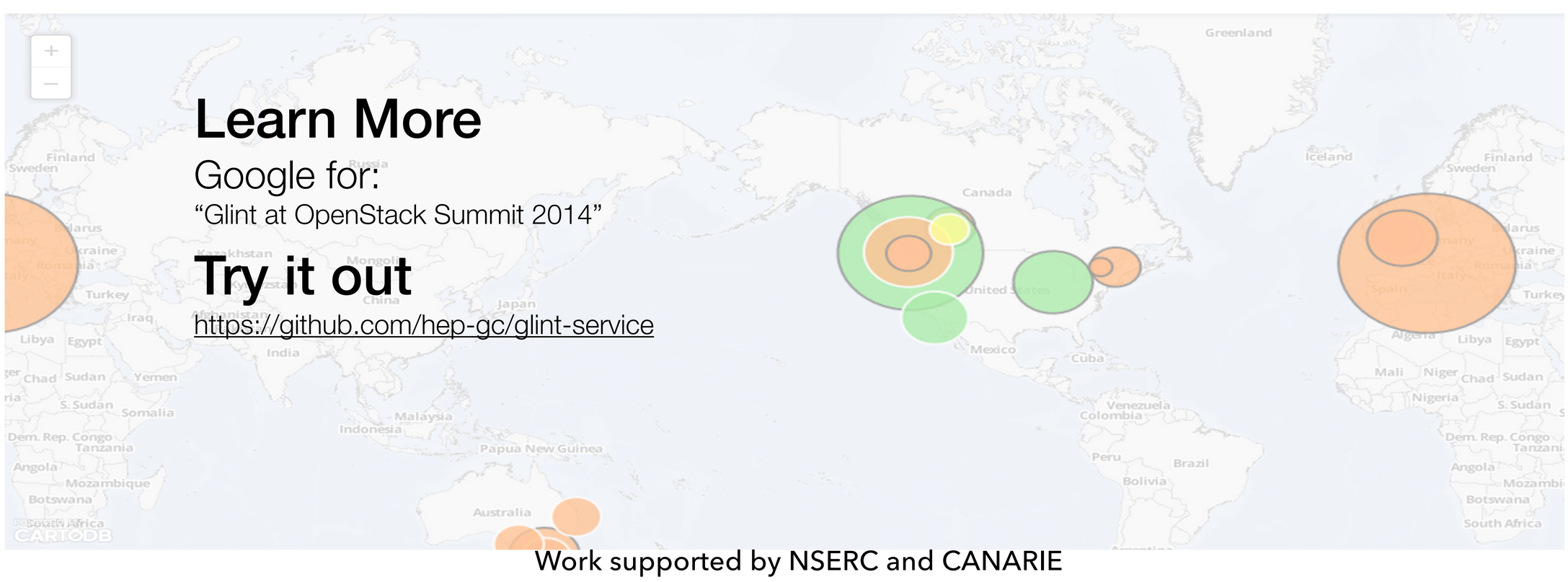



## Learn More

Google for:
"Glint at OpenStack Summit 2014"

## Try it out

https://github.com/hep-gc/glint-service

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