

NEP 101

Image Distribution Service

“GLINT”

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Objective

Provide users with a web portal to manage their images over a set of heterogeneous cloud types



User Objectives

From the Perspective of the User

- User Management
 - Upload an Image or URL to an Image
 - Add a Cloud Site to deploy images on
 - Add user/group specific credentials to use a Cloud Site
- Image Distribution Management
 - Distribute selected images to selected sites

Usage Example Rendering

Glint | HEPRC Image Distribution Service

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Deployments

[Deployments](#)

[Images](#)

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Save

cirros-test

Openstack-Dair Openstack-Alto EC2-Ireland EC2-N_Virginia EC2-N_California

launchpad-cirros

Openstack-Dair Openstack-Alto EC2-Ireland EC2-N_Virginia EC2-N_California

Image Distribution Management

- [Home](#)
- [Admin](#)
- [Your Images](#)
- [Your Sites](#)
- [Your Scripts](#)

info: 'save' Operation Inprogress ...

events:

Ubuntu Flon 1

Mouse ALTO DAIR Cloud ALTO

Cirros Flon 2

DAIR Cloud ALTO ALTO Mouse

Cirros Flon 1

ALTO ALTO DAIR Cloud Mouse

save

Administrative Example Rendering

Image Distribution Administration

Home > Image_dist > Site_infos > Add site_info

Add site_info

Site user id:	<input type="text" value="-----"/> <input type="button" value="+"/>
Site name:	<input type="text" value="ALTO"/>
Site url:	<input type="text" value="alto.cloud.nrc.ca"/>
Site type:	<input checked="" type="checkbox"/> Openstack <input type="checkbox"/> Nimbus <input type="checkbox"/> EC2 <input type="checkbox"/> Azure
Site state:	<input type="text"/>

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Images

- cirros-test -- chris/cirros-0.3.1-x86_64-disk.img -- bundled
- launchpad-cirros -- https://launchpad.net/cirros/trunk/0.3.0/+download/cirros-0.3

Bundle images:

This can only bundle image files; website addresses to images cannot be bundled. Images must be bundled before they can be deployed onto EC2 clouds

Add new image:

Image name:

Image file: No file chosen

Add new image:

Image name:

Image address:

Current Status

- An application prototype supporting image distribution for openstack and Amazon EC2 Clouds
- A Django development framework to support web portal development to wrap openstack's glance and EC2's AMI/CLI tools APIs.
- Provides security using openstack's Keystone service and EC2's security mechanism.

TODO

- Sanity Checking to ensure consistent state between GLINT and the participating clouds
- Support Microsoft and Nimbus Clouds