

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**

Logged in as: [chris](#)

**Deployments**

[Deployments](#)

[Images](#)

[Sites](#)

[Logout](#)

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"/>

### GIInt | HEPRC Image Distribution Service

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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 Google, Microsoft and Nimbus Clouds