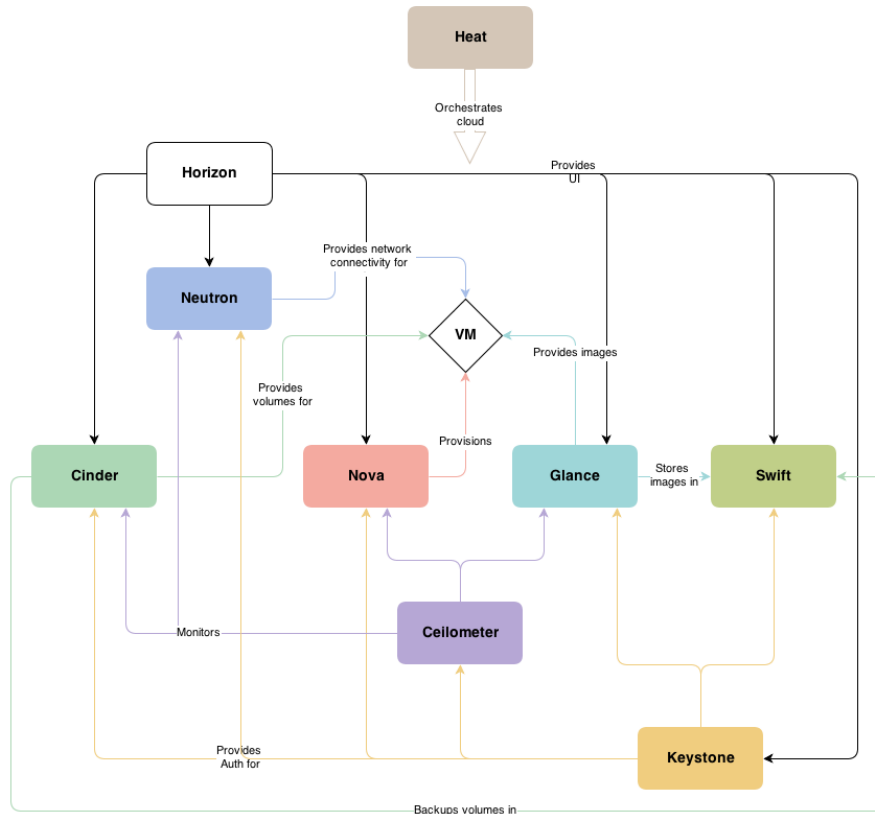


OpenStack Dashboard

Codename: Horizon



Horizon Overview



Horizon Architecture

- Built with Python using the Django framework
- Horizon directory holds the generic libraries and components
- `openstack_dashboard` directory contains a reference Django project that uses horizon
- Database backend
- Makes heavy use of the OpenStack APIs (keystone, nova, glance, etc.)
- Easy to customize the theme for rebranding

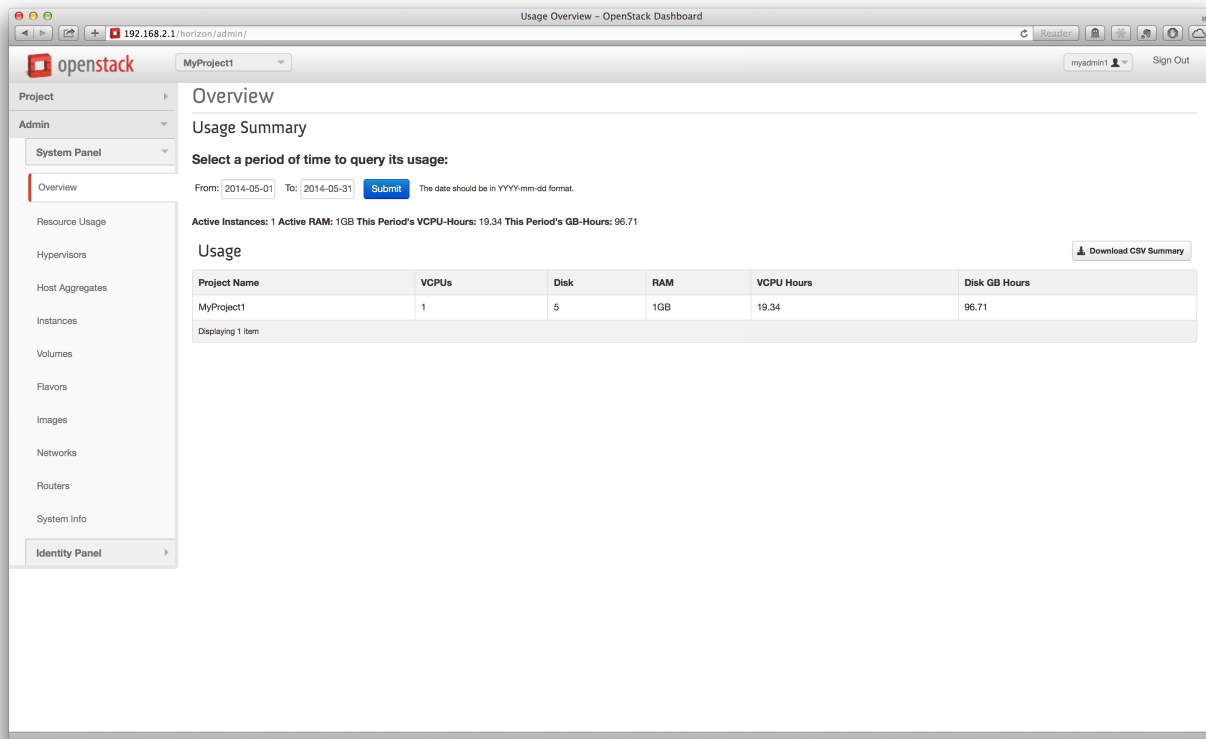
Horizon Features

- Extensible Architecture
- Integration with core projects
- Feature support for Nova
 - Volume snapshots
 - Boot from volume
 - Realtime updates of instance status
 - Pause/suspend instances
 - Instance power state
 - Manage floating IP allocation
 - Networking View (added in Folsom release)
 - Support for VNC browser client
 - Live Migration Support

Horizon Requirements

- Keystone
- Nova
- Glance
- Swift is supported, but optional

Horizon Admin Section

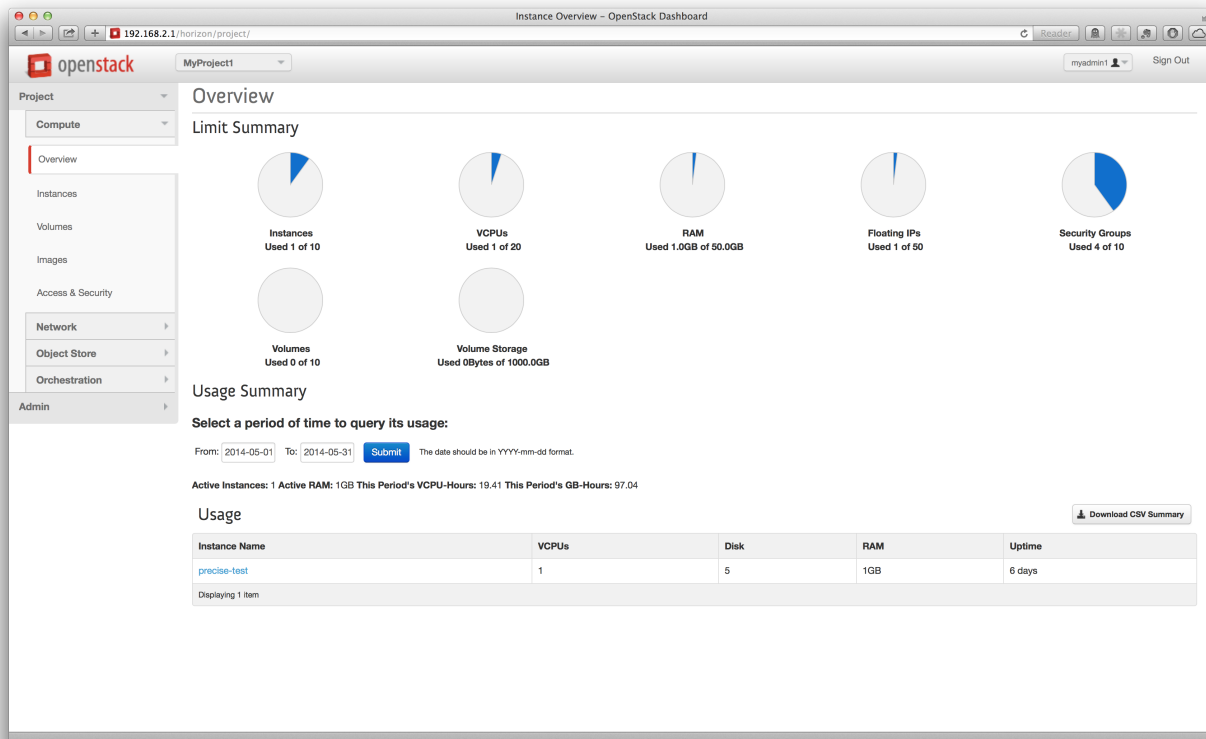


The screenshot displays the OpenStack Horizon Admin interface. The browser address bar shows the URL `192.168.2.1/horizon/admin/`. The page title is "Usage Overview - OpenStack Dashboard". The left sidebar contains a navigation menu with the following items: Project, Admin, System Panel, Overview (selected), Resource Usage, Hypervisors, Host Aggregates, Instances, Volumes, Flavors, Images, Networks, Routers, System Info, and Identity Panel. The main content area is titled "Overview" and "Usage Summary". It includes a section for "Select a period of time to query its usage:" with input fields for "From: 2014-05-01" and "To: 2014-05-31", and a "Submit" button. Below this, it shows "Active Instances: 1 Active RAM: 1GB This Period's VCPU-Hours: 19.34 This Period's GB-Hours: 96.71". A "Download CSV Summary" button is also present. The "Usage" table is displayed with the following data:

Project Name	VCPU's	Disk	RAM	VCPU Hours	Disk GB Hours
MyProject1	1	5	1GB	19.34	96.71

Below the table, it says "Displaying 1 item".

Horizon Project Section



Heat in Horizon

Heat is the OpenStack Orchestration service capable of launching multiple composite cloud applications based on templates in the form of text files that can be treated like code.



Ceilometer in Horizon

Ceilometer is the OpenStack Metering service capable of collecting measurements within OpenStack. It provides monitoring and metering.

