

@haofei

OPEN STACK

SaaS

PaaS

IaaS

CLOUD COMPUTING

Elastic Compute Cloud

Simple Storage Service

AMAZON WEB SERVICES

Rackspace
NASA
Canonical
Dell
HP
Citrix
Cisco

CONTRIBUTORS

Eucalyptus -> Nebula -> OpenStack Compute

Cloud Files -> Object Storage

Found in 2010 July

HISTORY

Austin 2010 10/21

Bexar 2011 02/02

Cactus 2011 04/15

Diablo 2011 09/22

VERSION

Compute Infrastructure(Nova)

Storage Infrastructure(Swift)

Image Service(Glance)

MAIN SERVICES

Instance life cycle management

Management of compute resources

REST-based API

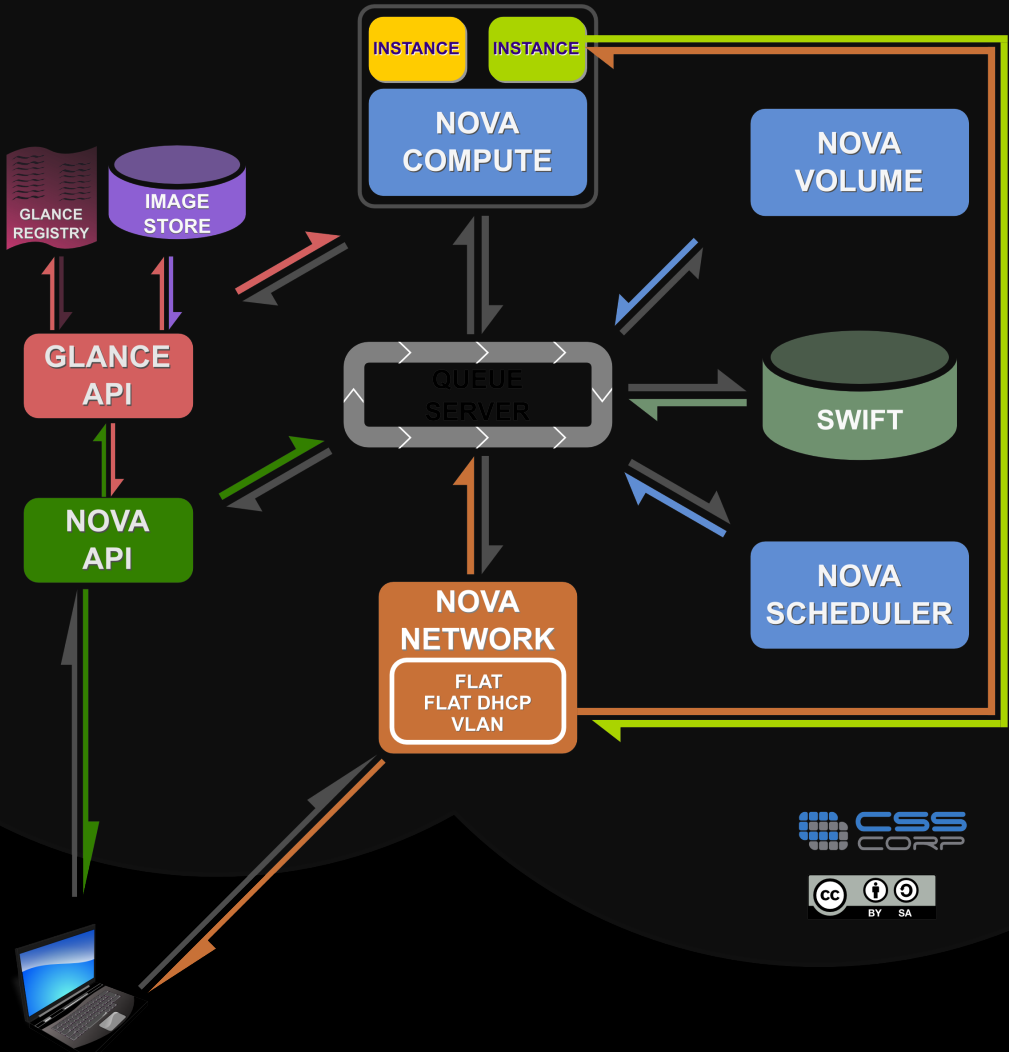
Hypervisor agnostic

NOVA

KVM, Xen, LXC, OpenVZ, VirtualBox, ESX, Hyper-V

LIBVIRT

OpenStack Architecture



Storage of large number of objects

Storage of large sized objects

Data Redundancy

Extreme scalability

SWIFT

Discovery, storage, retrieval virtual machine images

GLANCE

Keystone

Horizon

Billing

Log

Policy

FUTURE

<http://devstack.org>

DEVSTACK