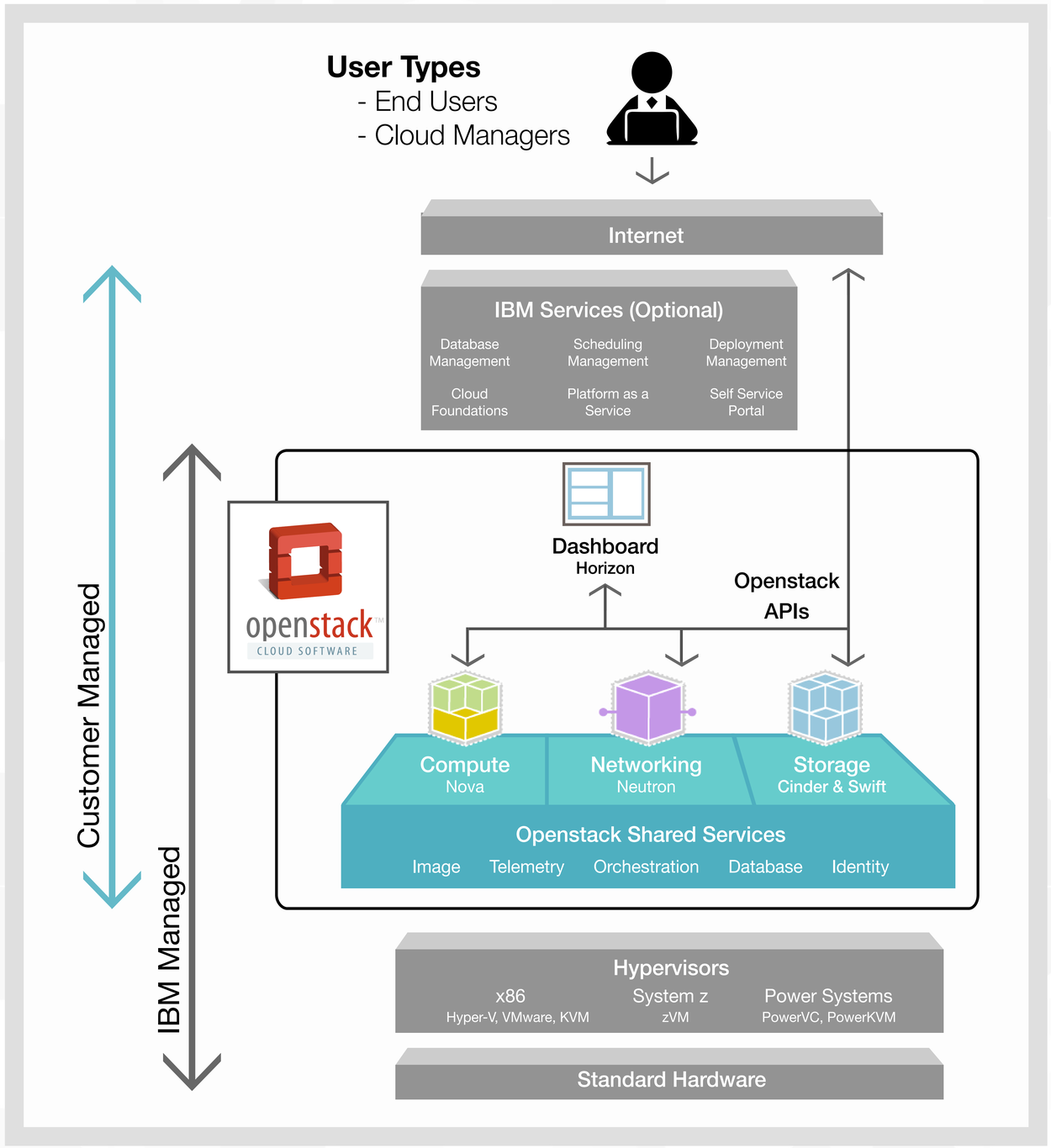
# IBM and OpenStack

## *Simple, Integrated, Everywhere*

**Deploy, manage, and move workloads to meet regulatory, cost and performance needs**




## *What is OpenStack?*

- An open source cloud operating system
- An active global community of thousands of developers
- A simple and massively scalable infrastructure as a service platform

*OpenStack strives to enable any organization regardless of size to create and offer cloud computing services running on standardized hardware*

## *Fast Facts*

- 6 month release cycle with frequent milestones
- Written in Python
- Apache License 2.0
- Simple UI to control large pools of compute, storage and networking resources throughout a datacenter

## *Platinum Sponsors*

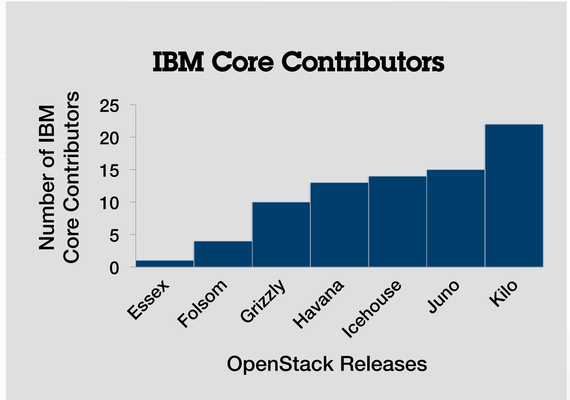
## *Gold Sponsors*

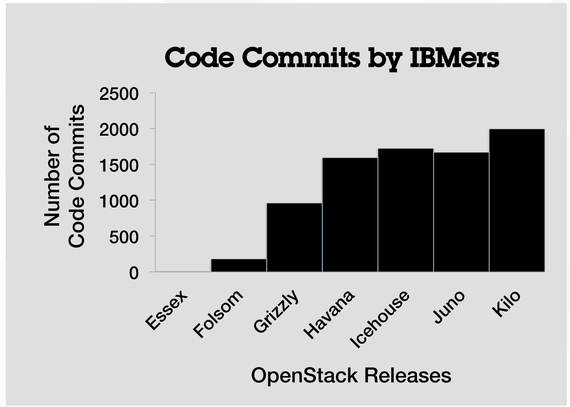
## *IBM, a Leading Contributor*

| COMPANIES | COUNTRIES |
|---|---|
| 483 | 149 |

**TOP 10 COUNTRIES**

United States, Russia, China, France, Great Britain, Ireland, Japan, Australia, Czech Republic, Ukraine




## *Stay Connected*

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- http://developer.ibm.com/opentech/blog

# IBM **Cloud Manager** with OpenStack

## *What is OpenStack?*

OpenStack is an open source cloud operating system that strives to enable any organization regardless of size to create and offer cloud computing services running on standardized hardware

**IBM Cloud Manager with OpenStack is an easy to deploy and use Private and Hybrid cloud management software offering based on OpenStack with IBM enhancements and world-class support**

## *Why IBM Cloud Manager with OpenStack?*

### Broad yet Simple Solutions

*#1 – Enables rapid IT response to ever-changing demands of businesses*

*#2 – Reduced infrastructure costs and improved application performance with intelligent VM placement and automated run-time resource optimization*

*#3 – Organizations and Managed Service Providers (MSPs/CSPs) can align service to expense*

*#4 – Supports production-grade cloud operations and interoperability at scale*

*#5 – Supports single point management across numerous systems including x/86, Power, and Z hypervisors (KVM, Hyper-V, PowerVM and more!)*

*#6 – Open computing cloud alternative to proprietary vendors with world-class support from IBM*

*#7 – Hybrid capability to IBM SoftLayer*

### Deploy Clouds with Ease!

**Login to the Self Service Portal**

↓

**Select an Image to Deploy**

↓

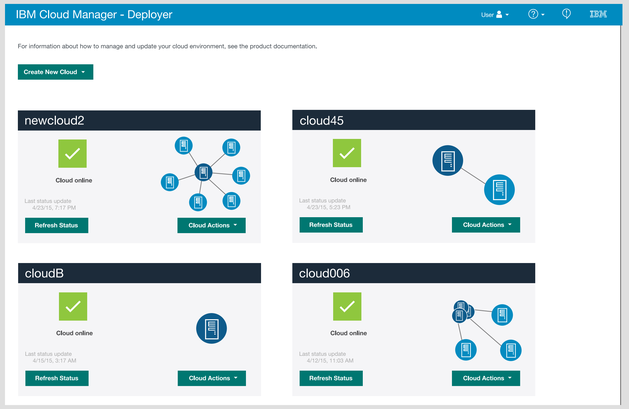
**Add custom Deployment information**

↓

**Deploy the Instance**

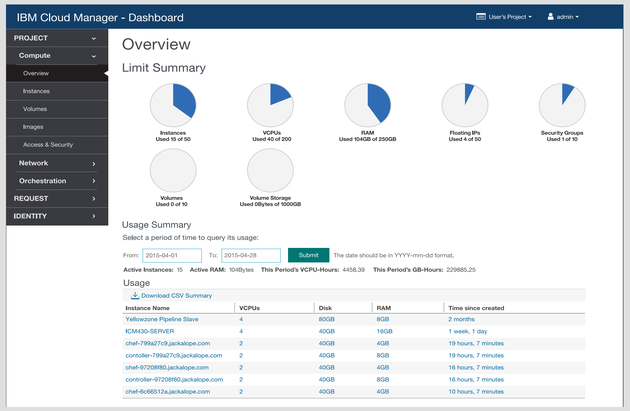
## *Exceptional User Experience*

### Design, Deploy, Scale, Repeat



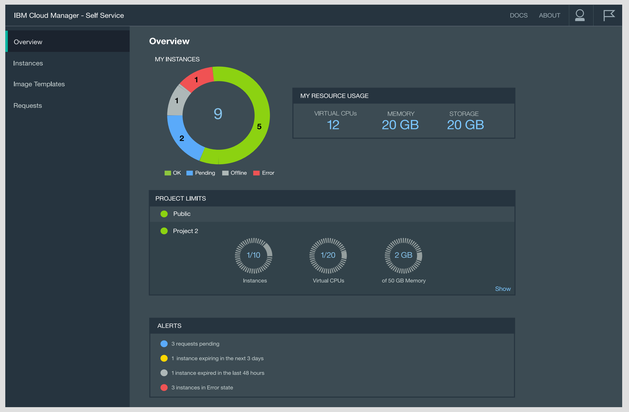

### IBM Cloud Manager – Deployer

- Intuitive and easy to use Graphical User Interface for deploying OpenStack
- Topologies supported out-of-the-box:
  - All-in-one Controller & Compute
  - One controller & N compute
  - Distributed DB
- Support for High Availability




### IBM Cloud Manager – Dashboard

- Based on OpenStack's Horizon Dashboard for administrators
- IBM value add enables administrators to manage requests and expiration policies
- Provides management for projects, image, security groups, and quota

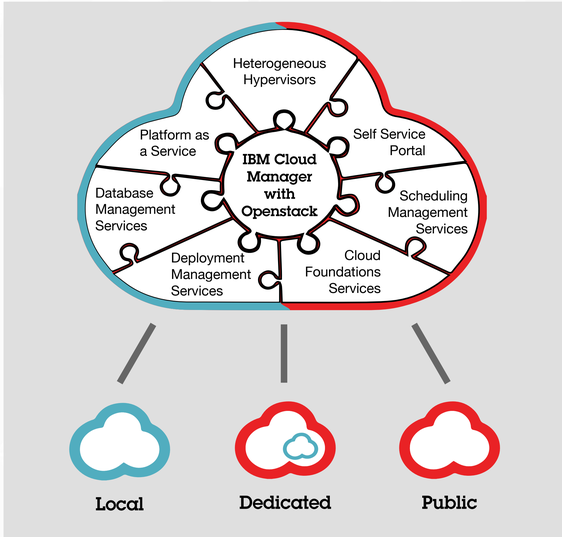



### IBM Cloud Manager – Self Service Portal

- Users can self provision virtual machines (VMs)
- VMs live within expiration limits specified and approved by the administrator
- Users can manage images and instances, and deploy services

## *Grow your Cloud Infrastructure!*

### Integrated, Open Technology




### Connect with over 40 Global Data Centers

**ICM allows you to connect with IBM's massive network of worldwide cloud hubs consisting of 40 data centers across 5 continents**

IBM has **cloud facilities in major geographies and key financial centers,** bringing greater flexibility, performance, compliance, control and transparency to clients

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