

# Geelong

linux.conf.au 2016

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# CLOUD CRAFTING PUBLIC / PRIVATE / HYBRID

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# HYBRID?



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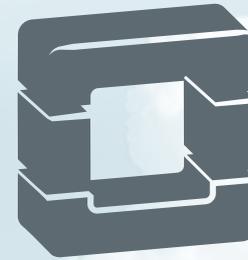
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**PUBLIC**



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openstack™

Google



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**PRIVATE**



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vmware®



RED HAT®  
ENTERPRISE  
VIRTUALIZATION

oVirt

CITRIX®  
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VM



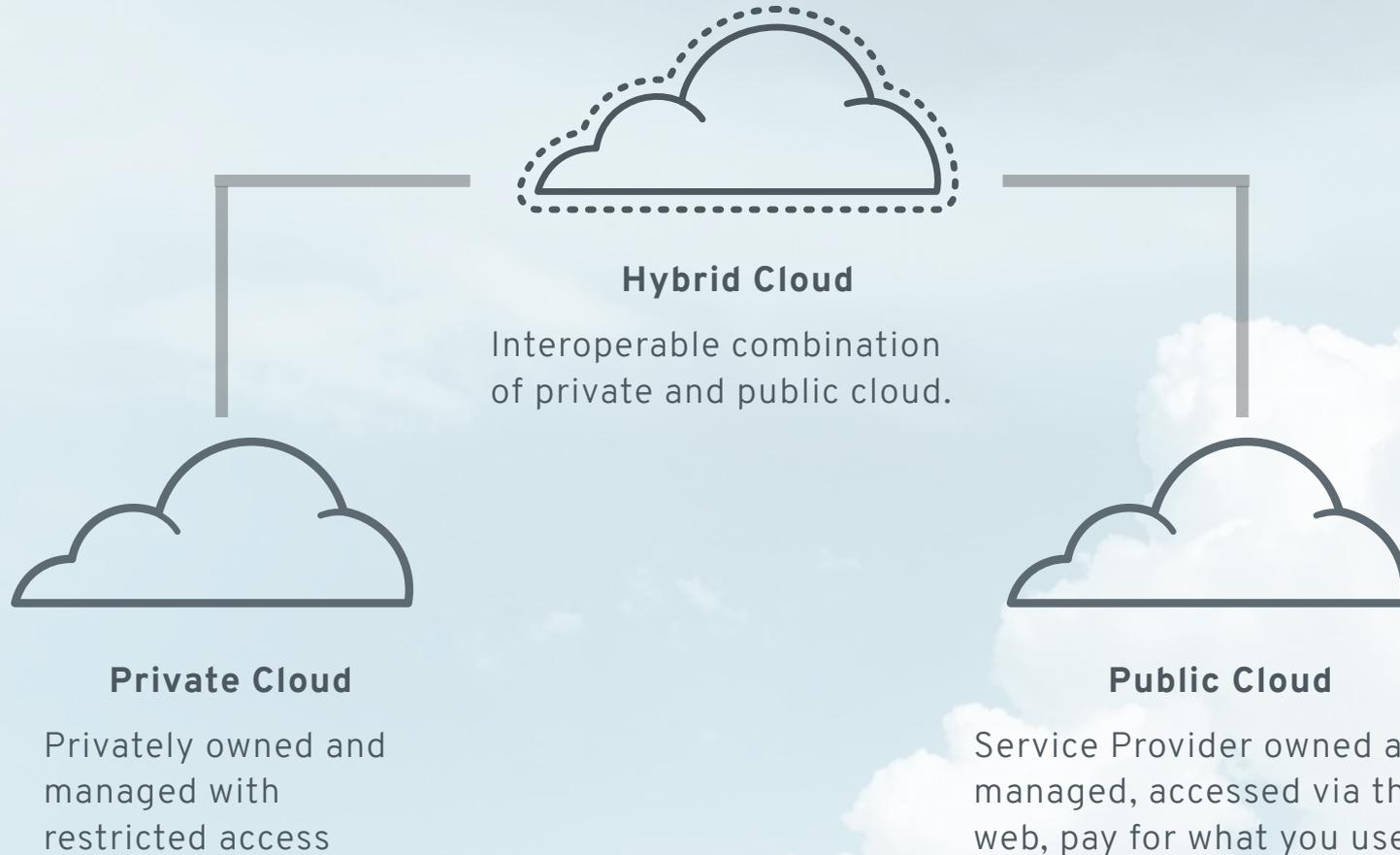
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# HYBRID?



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# CLOUD DEPLOYMENT MODELS



# ManageIQ

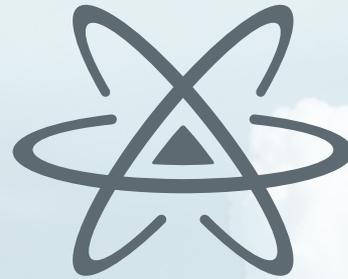


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# CONTAINERS



kubernetes



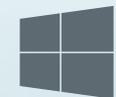
PROJECT  
ATOMIC

 **ManageIQ PROVIDERS**

**vmware**<sup>®</sup>

 **amazon**  
web services

 **Microsoft**

 **Windows Azure**

**RED HAT**<sup>®</sup>  
ENTERPRISE  
VIRTUALIZATION

**RED HAT**<sup>®</sup>  
ENTERPRISE LINUX<sup>®</sup>  
OPENSTACK<sup>®</sup> PLATFORM

**FOREMAN**

**oVirt**

 **OPENSIFT**<sup>®</sup>  
by Red Hat<sup>®</sup>

  
**kubernetes**

# ManageIQ CAPABILITIES

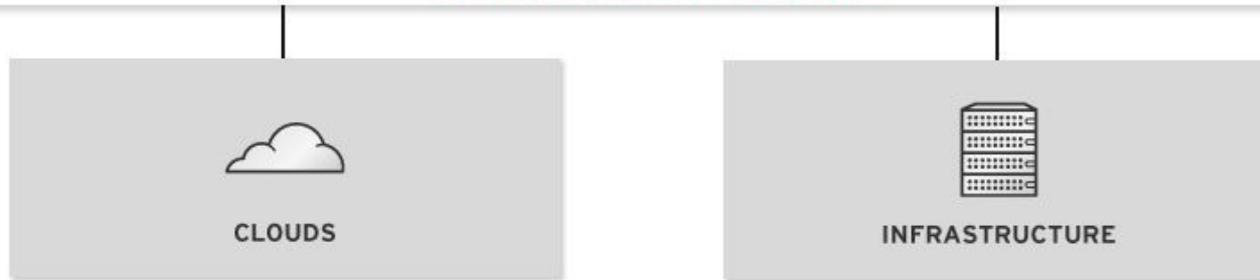
## INFRASTRUCTURE-AS-A-SERVICE (IaaS) CONSUMERS



## SINGLE PANE OF GLASS



## ADAPTIVE MANAGEMENT PLATFORM



# CORE PLATFORM

RHEL/CENTOS 7, APACHE, RAILS, RUBY,  
POSTGRESQL,

**SECURE, SUPPORTED, FASTER APPLICATION PLATFORM FOR MANAGEIQ/CLOUDFORMS**

**Increased Performance** - Better business response.

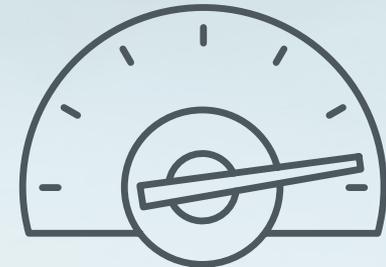
**Reduced Memory Usage** - Lower footprint cost.

**Latest/Greatest** - Better efficiencies to be harnessed.

**Upstream Bug Support** - Enlarging community contribution.

**Upstream Security Support** - Dependable and Secure.

**Eliminates Custom Patches** - Reduced maintenance.



# CLEAN WEB UI

Clear, concise, consistent, familiar, attractive, responsive and restful

The screenshot displays the ManageIQ dashboard interface. The top navigation bar includes the 'ManageIQ' logo and user profile icons. The left sidebar contains navigation links for 'Dashboard', 'My Services' (12), 'My Requests' (2), and 'Service Catalog'. The main content area is divided into four summary cards: 'Total Services' (12), 'Total Requests' (6), 'Services Online' (8), and 'Expiring Soon' (4). The right sidebar features a 'Notifications' section with five 'New Request' alerts, each with a green checkmark icon and a timestamp.

Category	Count
Total Services	12
Total Requests	6
Services Online	8
Expiring Soon	4
Denied Requests	4
Pending Requests	2

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3 Providers  🔄 1   ❄️ 2	52 Nodes   ❌ 3  1200 Pods   ❌ 35	300 Containers  2500 Services	4 Registries  2500 Images	510 Projects  300 Routes
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Utilization

CPU

50 Available of 1000 MHz



Last 30 Days

Memory

256 Available of 432 GB



Last 30 Days

Storage

0.5 Available of 1.6 TB



Last 30 Days

Network

200 Available of 1300 Gbps



Last 30 Days

Pods Creation vs. Deletion Trends

Last 30 Days



Image Creation Trends

Last 30 Days



Utilization By Nodes

CPU



Memory



Storage



Network



■ > 90%   ■ 80-90%   ■ 70-80%   ■ < 70%

■ Very Low   ■ Low   ■ High   ■ Very High

# ManageIQ COMMUNITY

website <http://manageiq.org>

docs <http://manageiq.org/documentation/>

 @ManageIQ

IRC #manageiq on freenode

forums <http://talk.manageiq.org/>

roadmap <https://trello.com/b/UeTqKlp3/manageiq-roadmap>

dual license: GPL v2 and Apache License v2



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# ManageIQ CONTRIBUTORS

Booz | Allen | Hamilton

**BBVA**



Cox AUTOMOTIVE™





# ManageIQ DEMO



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# QUICKSTART

Go to - <http://manageiq.org/download/>

Pre-built stable + nightly Centos 7.x based images for

- OpenStack
- oVirt + RHEV
- VMware



# QUICKSTART

I'm using OpenStack qcow image with libvirt+kvm.

Create a working snapshot

```
qemu-img create -f qcow2 \  
-o backing_file=manageiq-openstack-capablanca-2.qc2 \  
manageiq.qcow2
```

Initialise the VM

```
virt-install --import --name ManageIQ --ram 6144 --vcpus 2 \  
--disk path=/mnt/scratch/Images/manageiq.qcow2,format=qcow2,bus=virtio \  
--network bridge=virbr0 --graphics vnc
```

Default username / password= admin / smartvm





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**QUESTIONS?**

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# THANK YOU

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