



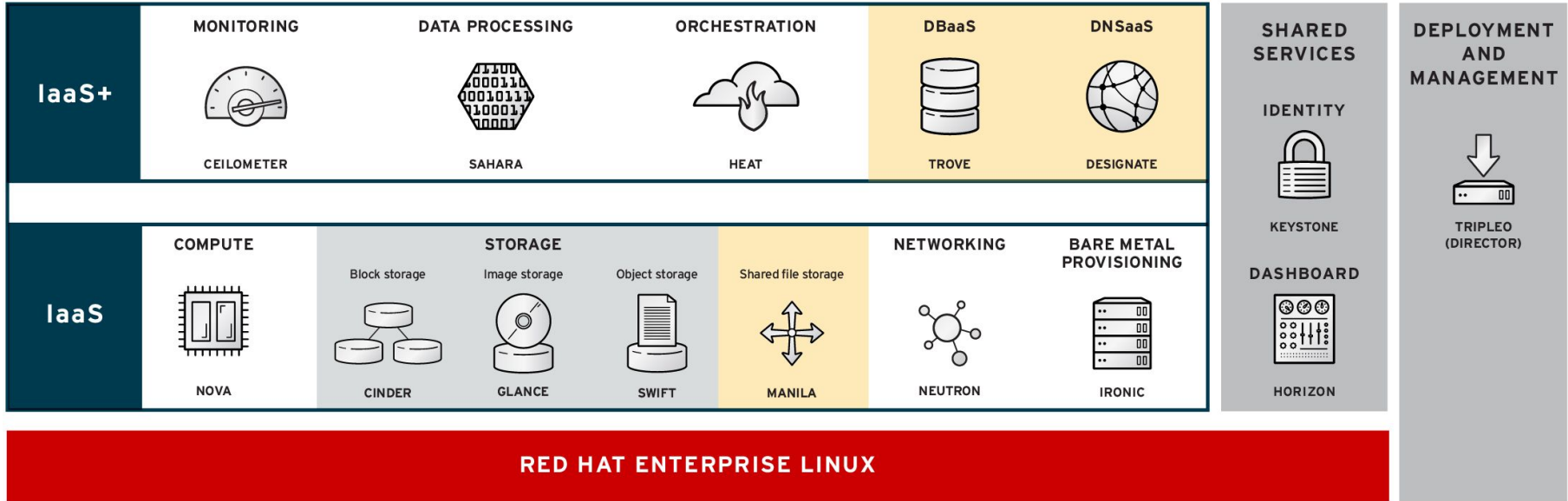
# Getting started on Openstack

Architecture, Installation and Containers

Marco Berube  
sr. Cloud Solutions Architect  
May 2016

Openstack is designed to scale

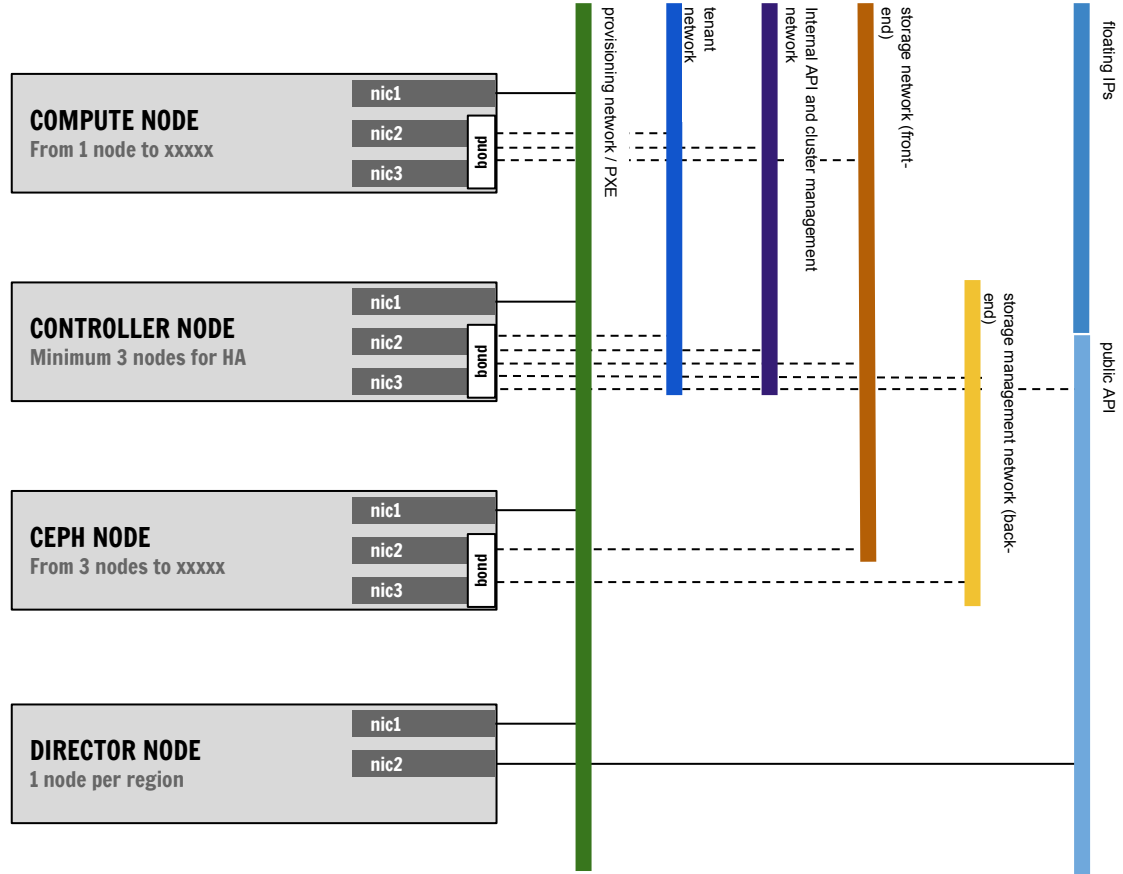
# Red Hat Openstack 8 - Core Components



Technology preview

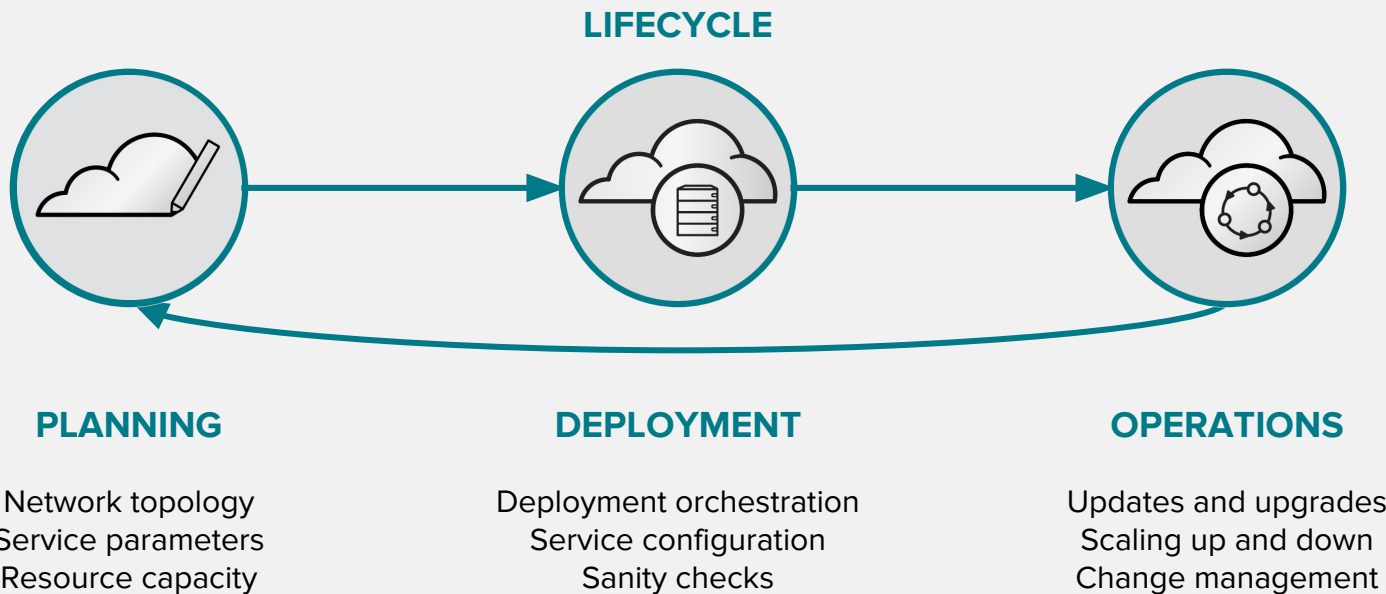


# openstack reference architecture

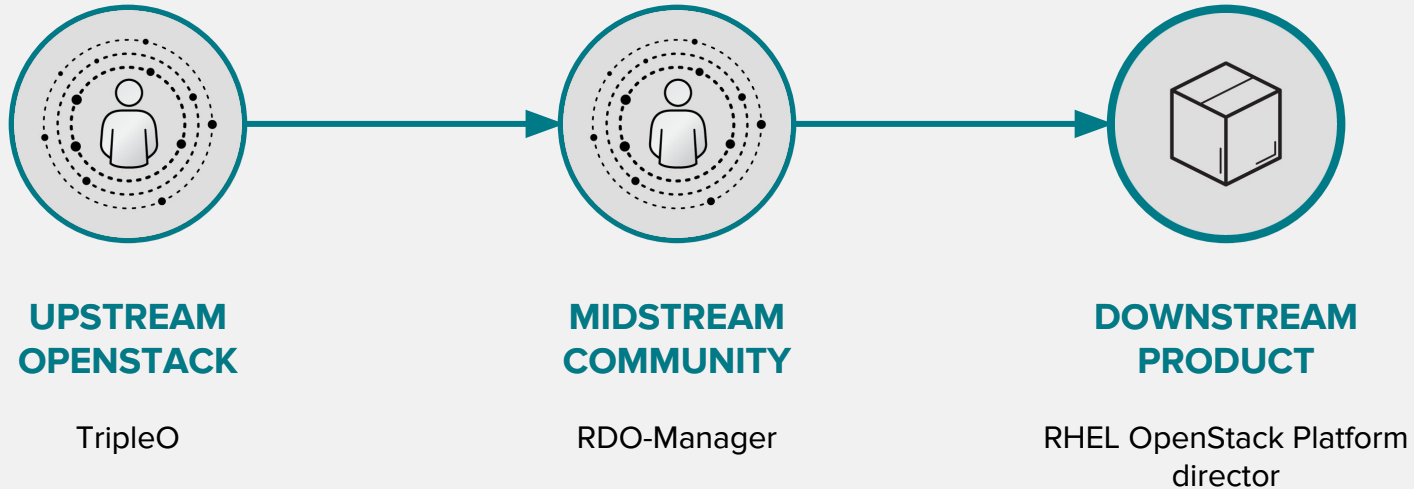


# OpenStack director

Project's Mission



# From Upstream to Product



# OpenStack director

## Key values



RHEL OpenStack Platform director is providing a solution which is:

- solving for complete OpenStack **lifecycle**,
- part of upstream OpenStack **community**,
- rich on **partner ecosystem**,
- solving for deployments in **scale**,
- strong in community & product **support**.

How can I get started without all this  
equipment?



Disclaimer :

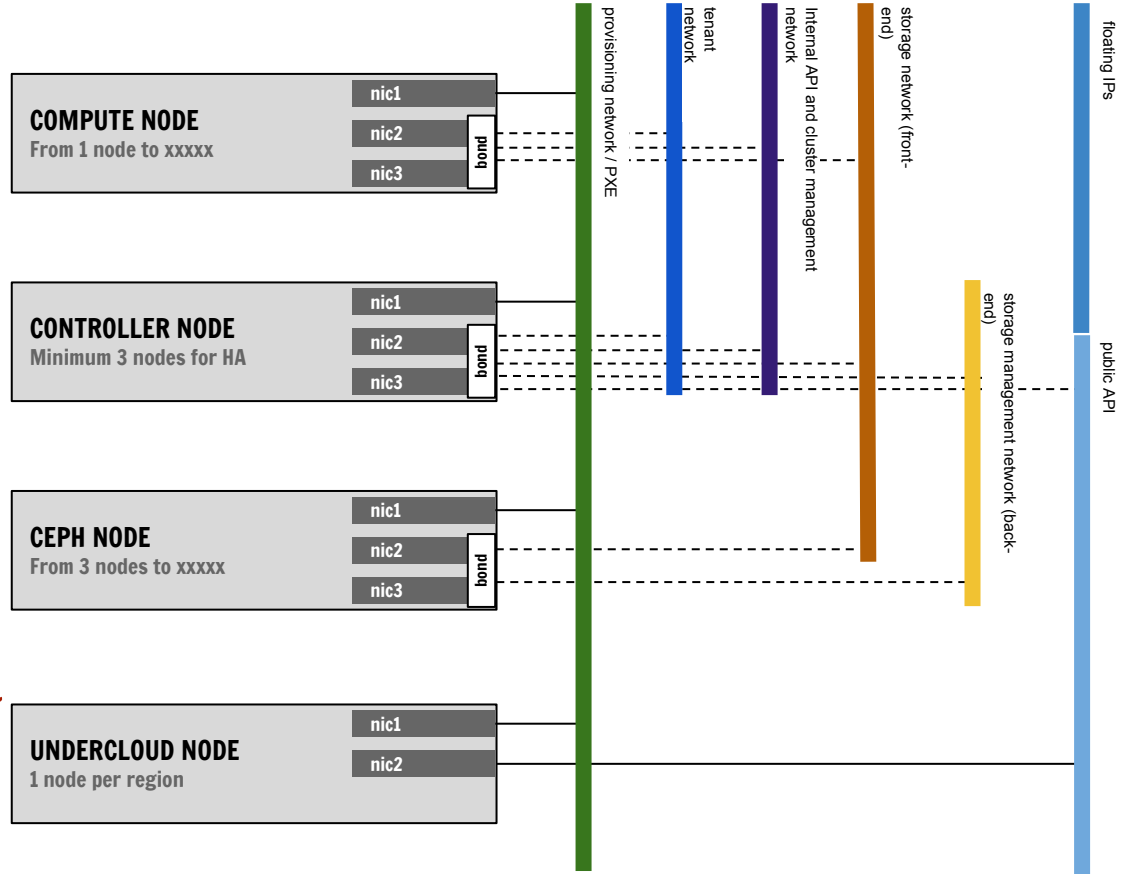
*The following network architectures  
are **not** best practices*

*\* but very common to get started with Openstack :-)*



# openstack reference architecture

Great for production but  
complex for a laptop, lab or  
a few test nodes!

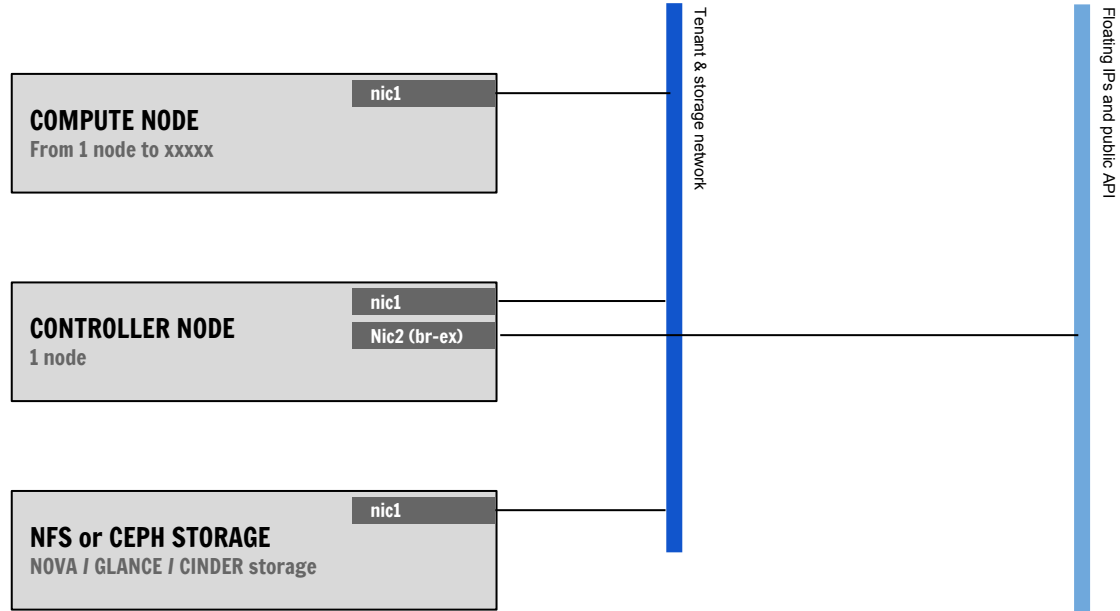




# openstack

## Lab architecture

Scenario 1:  
basic tenant networking

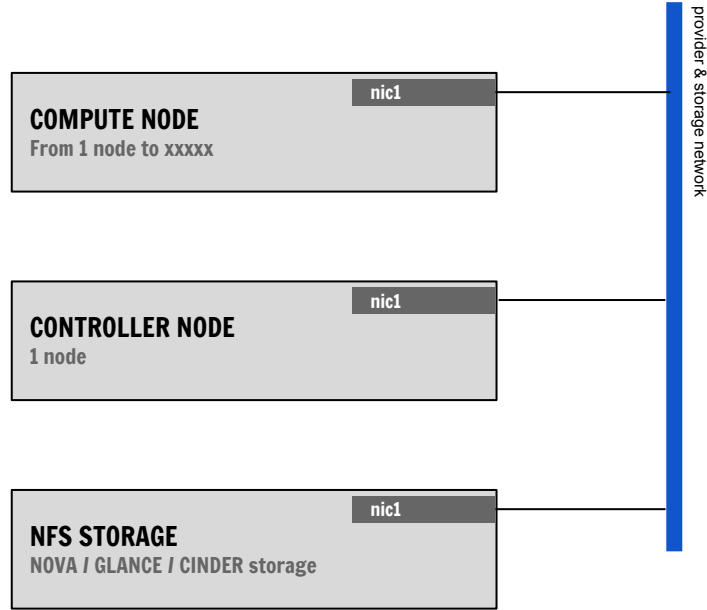




# openstack

## Lab architecture

Scenario 2:  
provider networks



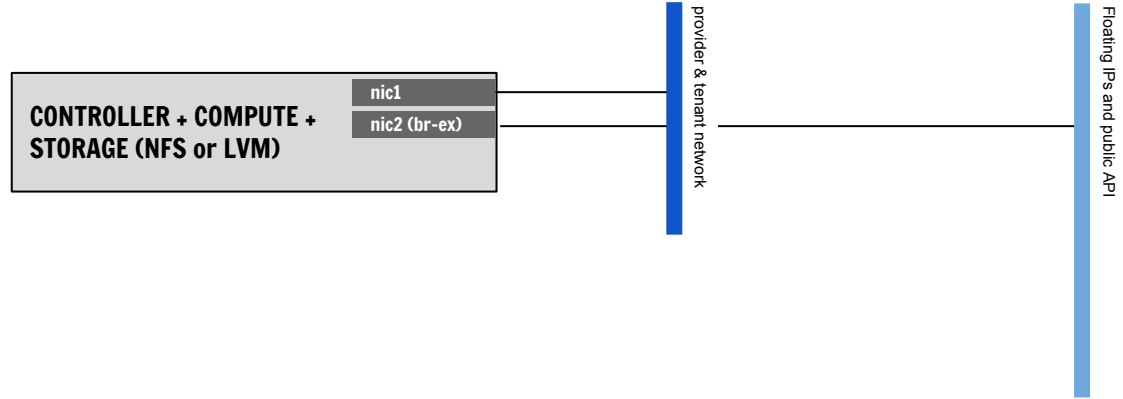
```
# /etc/neutron/dhcp_agent.ini  
  
enable_isolated_metadata=true  
enable_metadata_network=true
```



# openstack

## Lab architecture

Scenario 3:  
All-in-one + tenant network

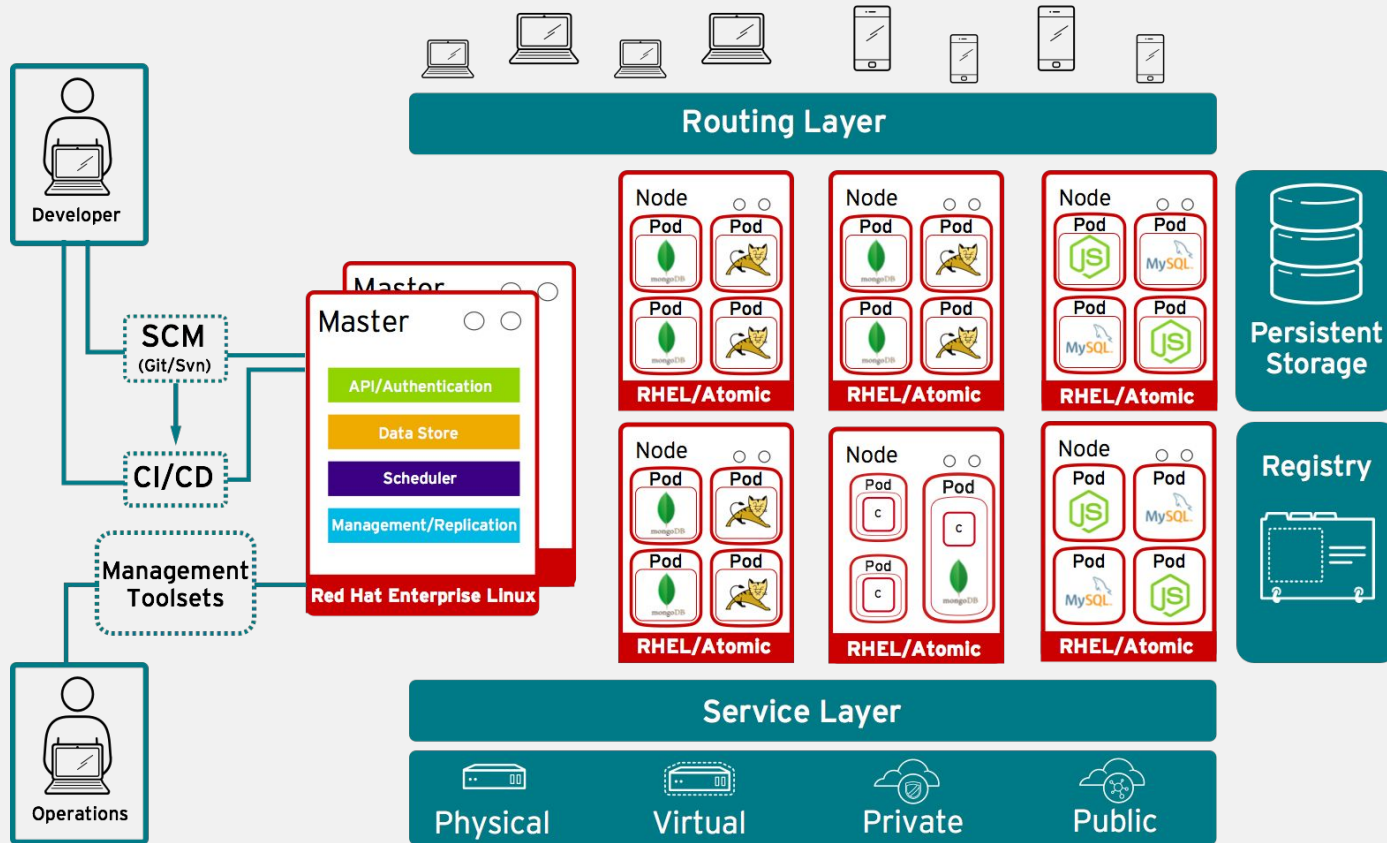


# Packstack installation

{ instructions at [www.marcoberube.com](http://www.marcoberube.com) }

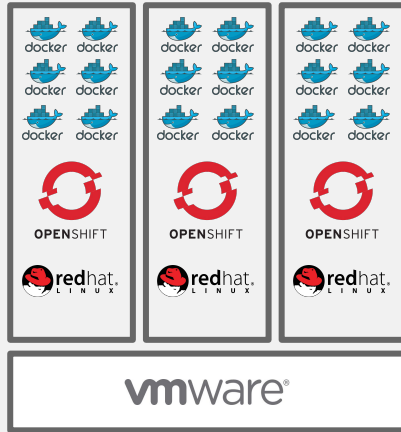
# Orchestrating containers

# Openshift high-level architecture

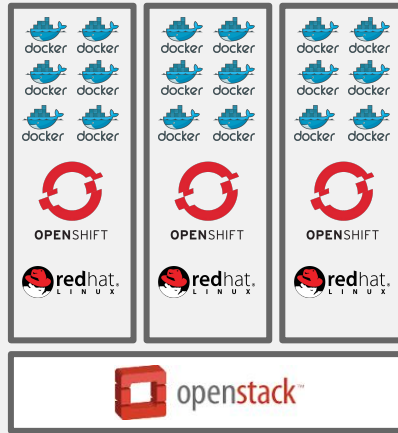




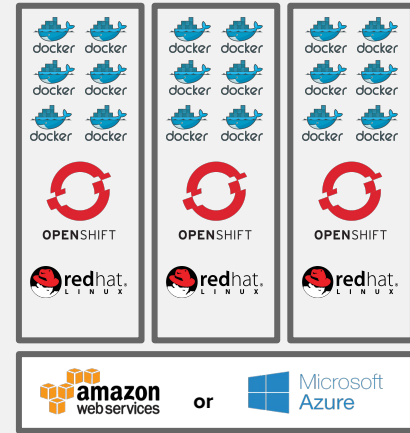
# Red Hat Open Hybrid Cloud



Traditional Virtualization



Private Cloud

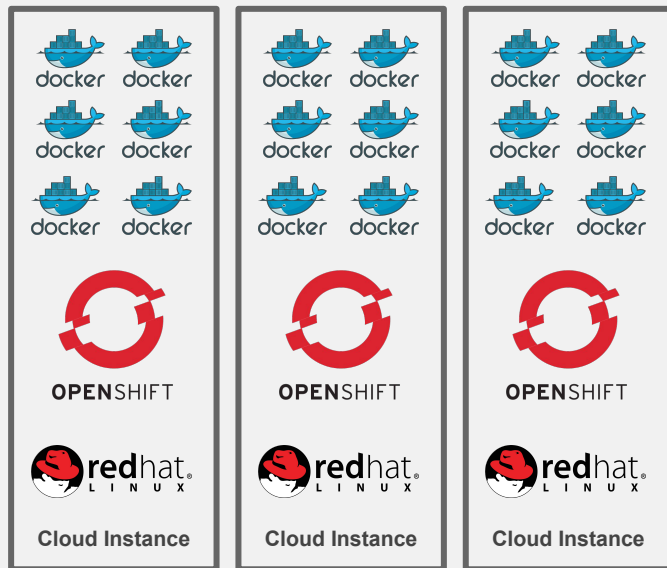


Public Cloud

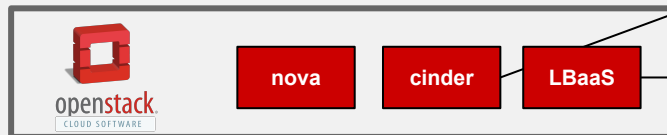
# Leveraging Openstack IaaS capabilities

Network and Storage orchestration

PaaS



IaaS





# THANK YOU



[plus.google.com/+RedHat](https://plus.google.com/+RedHat)



[facebook.com/redhatinc](https://facebook.com/redhatinc)



[linkedin.com/company/red-hat](https://linkedin.com/company/red-hat)



[twitter.com/RedHatNews](https://twitter.com/RedHatNews)



[youtube.com/user/RedHatVideos](https://youtube.com/user/RedHatVideos)