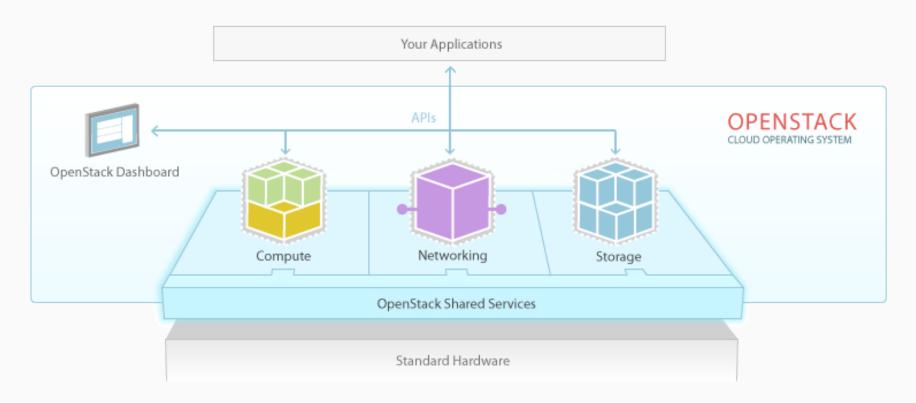


WHAT IS OPENSTACK?



Cloud operating system

WHAT IS RED HAT OPENSTACK PLATFORM?





INFRASTRUCTURE AS A SERVICE

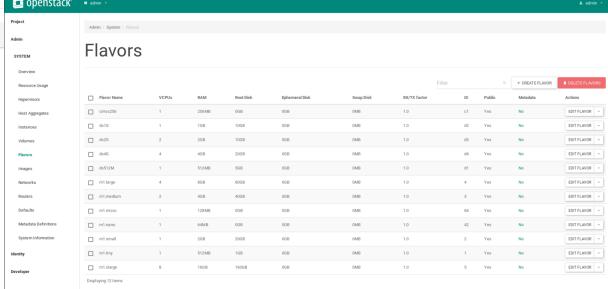
TRUSTED





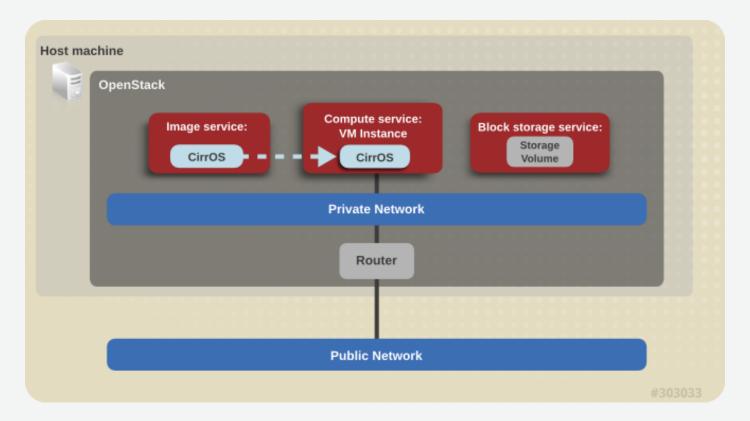


DEVSTACK

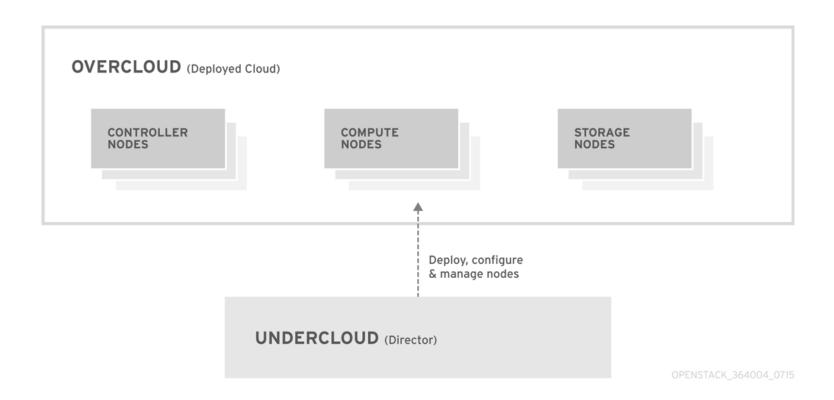




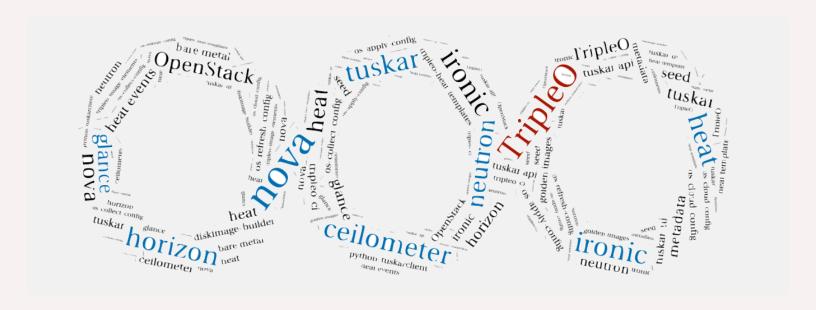
PACKSTACK



DIRECTOR

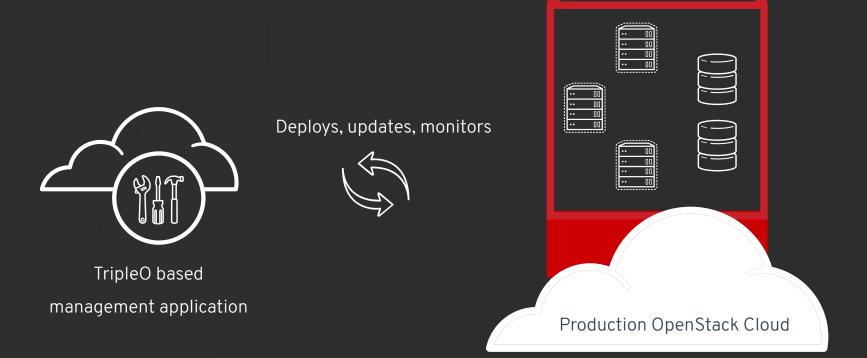


TRIPLEO

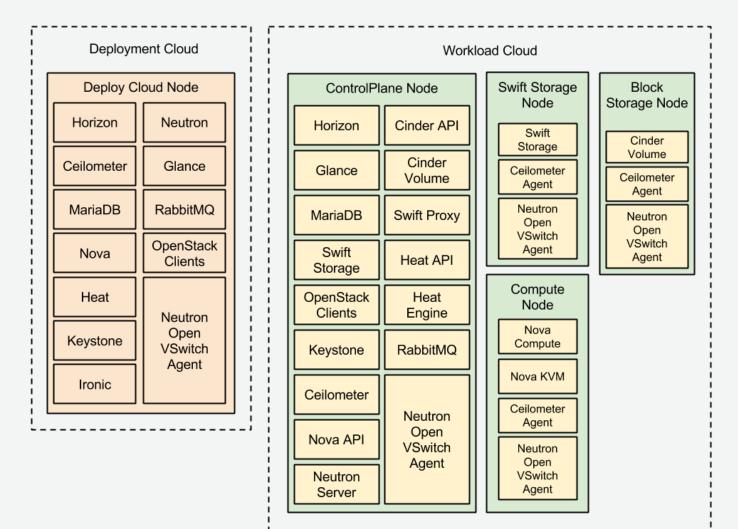


- * Friendly name for "OpenStack On OpenStack"
- * Allows you to deploy production cloud on bare-metal hardware
- * Undercloud: Subset of existing OpenStack components
- * Overcloud: Production OpenStack cloud

TRIPLEO OVERVIEW

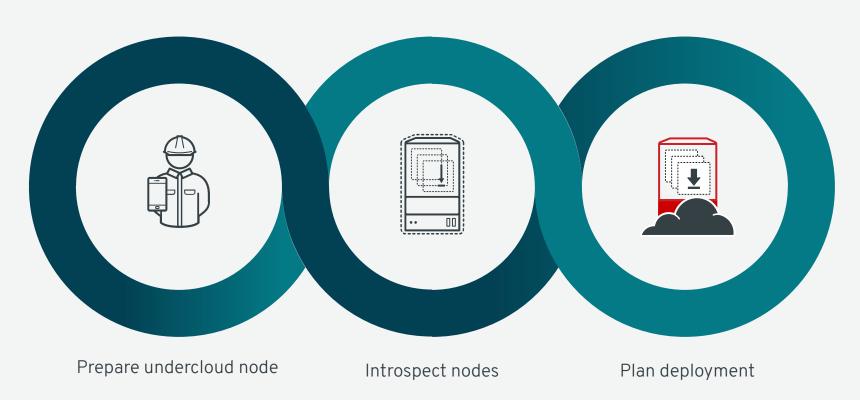


TRIPLEO PHYSICAL VIEW



TRIPLEO

Deployment workflow overview



TRIPLEO

Deployment workflow overview

Install undercloud node

Register nodes(Ironic)

Create images(build/download)

- 1 Introspect nodes
- 2 Profile matching (ironic-inspector)

- 1 Plan deployment
- 2 Deploy overcloud







OVERCLOUD

Requirments

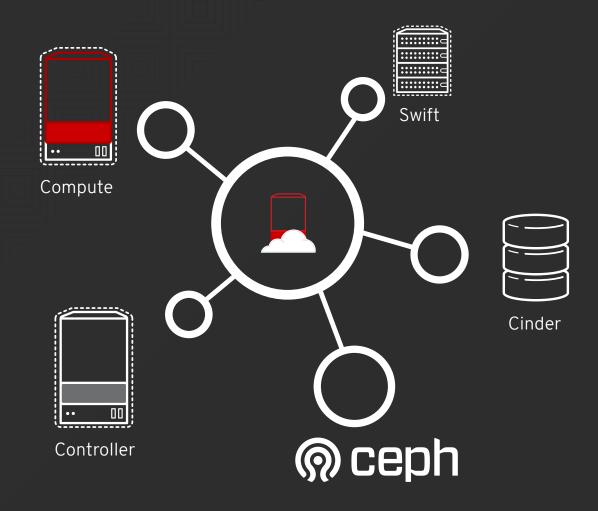
COMPUTE

	value		
Processor	64-bit x86 (Intel 64 or AMD64)		
Memory	minimum 6 GB of RAM		
Disk Space	40 GB available		
NICs	min. 1 Gbps, at-least 2 in production		
IPMI	IPMI functionality in motherboard		

CONTROLLER

	value		
Processor	64-bit x86 (Intel 64 or AMD64)		
Memory	min. 32 GB RAM, 64 GB recommended		

PLANNING YOUR OVERCLOUD

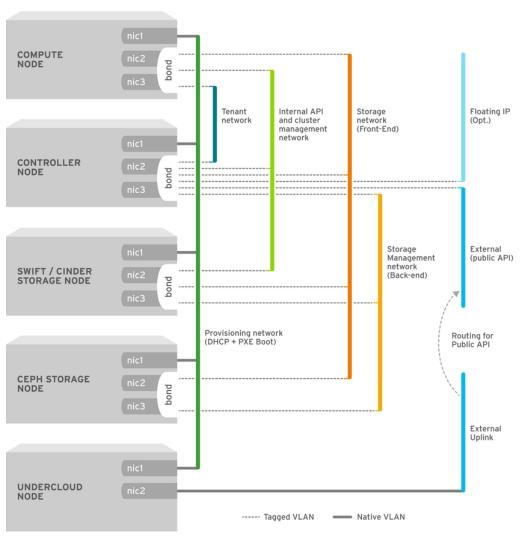


PLANNING YOUR OVERCLOUD

Overcloud	Controller	Compute	Ceph	Swift
Small	1	1	-	-
Medium	1	3	-	-
Medium with object storage	1	3	1	1
Medium(HA)	3	3	-	-
Medium(HA) with Ceph	3	3	3	1

Planning your Overcloud

PLANNING NETWORKS

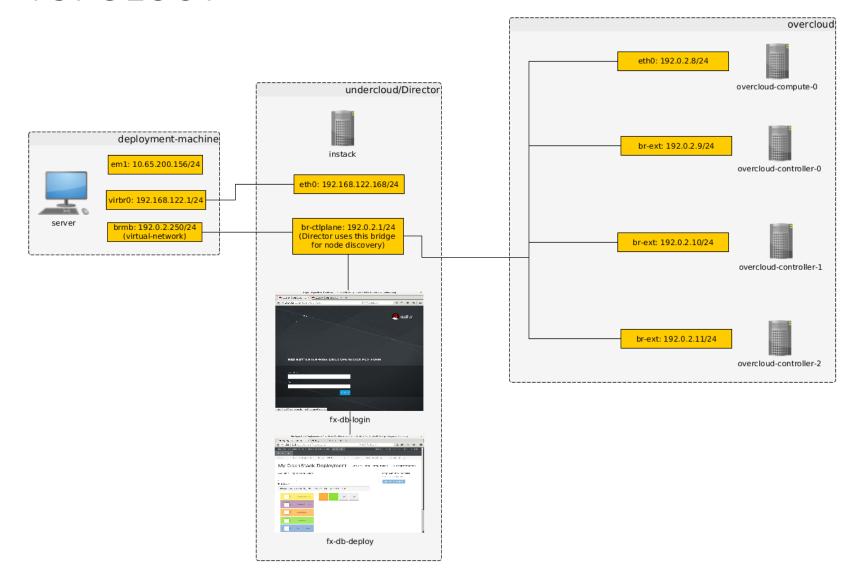


HEAT TEMPLATE

Understanding heat template

```
heat_template_version: 2013-05-23
description: > A very basic Heat template.
parameters:
   type: string
   default: lars
   description: Name of an existing key pair to use for the instance
  flavor:
   type: string
   description: Instance type for the instance to be created
   default: m1.small
   type: string
   default: cirros
   description: ID or name of the image to use for the instance
resources:
    type: OS::Nova::Server
   properties:
     name: My Cirros Instance
     image: { get_param: image }
     flavor: { get param: flavor }
     key_name: { get_param: key_name }
   description: Get the instance's name
```

TOPOLOGY



RED HAT® OPENSTACK PLATFORM

https://access.redhat.com/documentation/en/red-hat-openstack-platform

