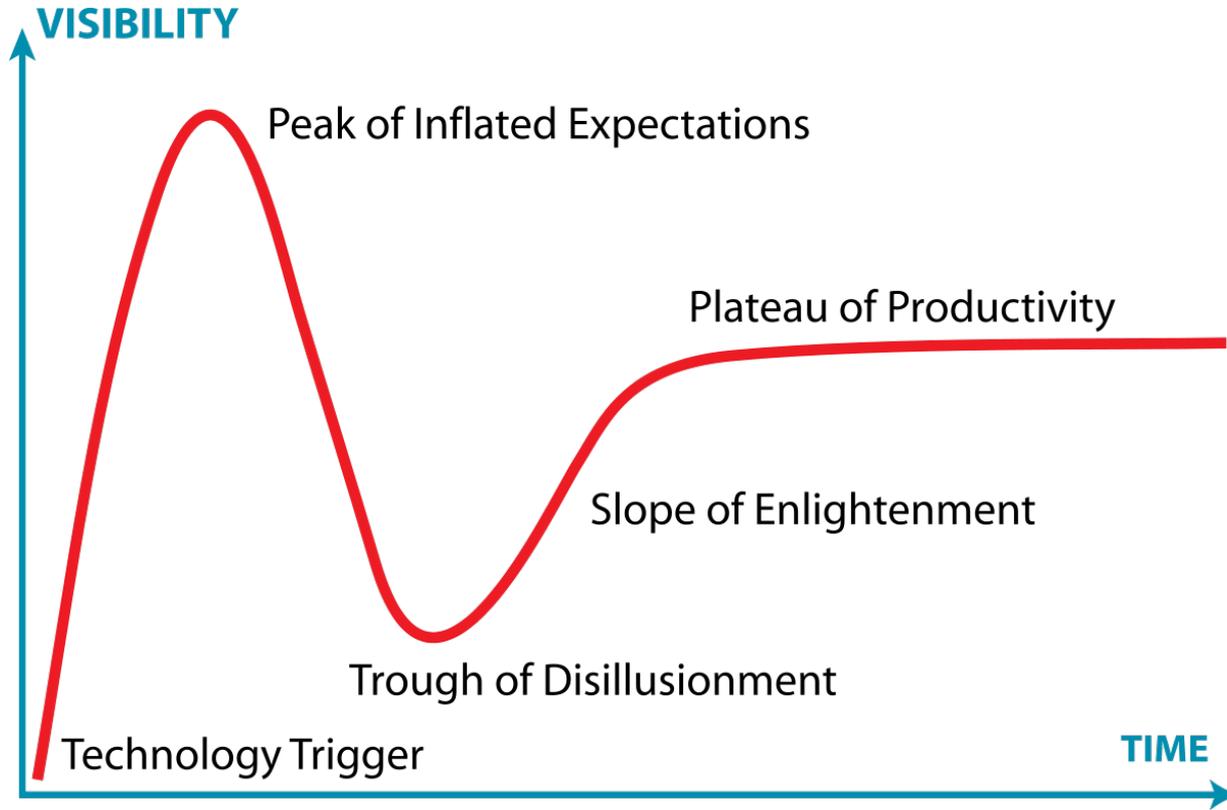


# OpenStack: Caught between Virtualization and Containerization

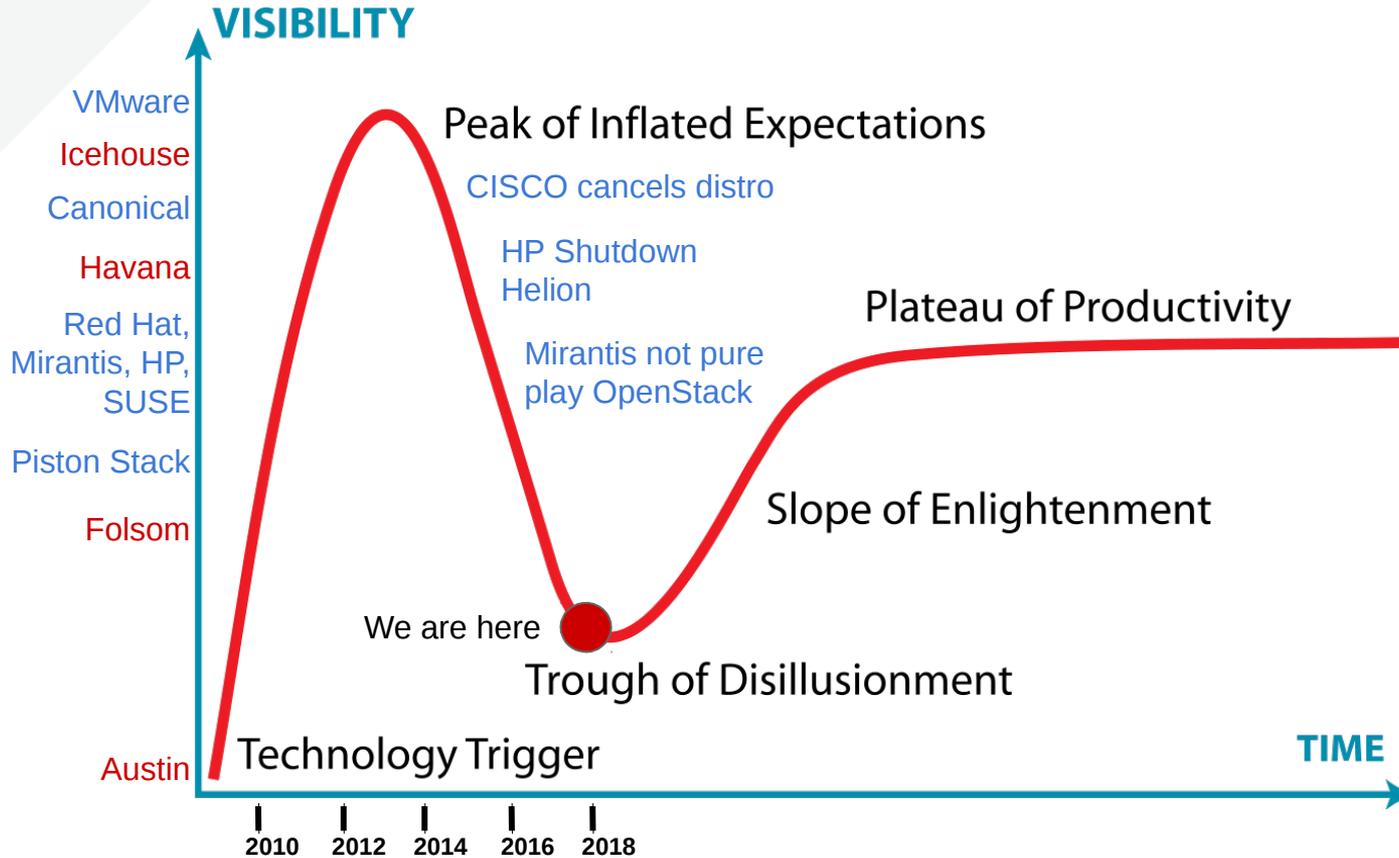
# Between a Rock and a Hard Place



# Technology Hype Cycle



# Technology Hype Cycle



# What if we skip OpenStack?



Google Cloud Platform



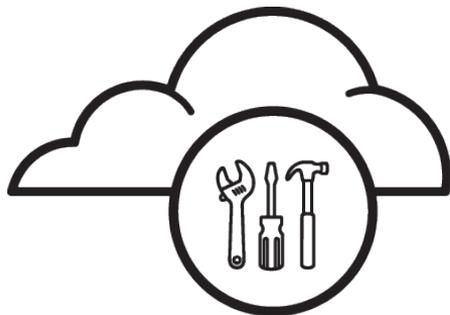
# What is the value of OpenStack?

- Infrastructure that services operators and developers
- Speed that meets developers expectations
- Scalability well beyond the 250 hypervisors virtualization platforms can handle
- Modular and flexible set of utilities
- Open Source
- Drive down cost through high degree of standardization
- Business agility, no change requests and waiting for resources
- API endpoint for the datacenter

# OpenStack Use Cases

3

Infrastructure for OpenShift and Container Platforms



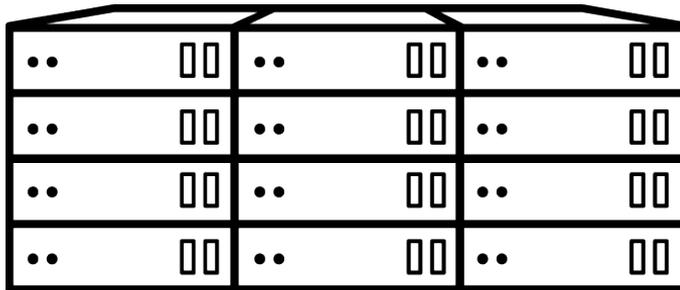
2

Virtual Machines running on traditional virtualization

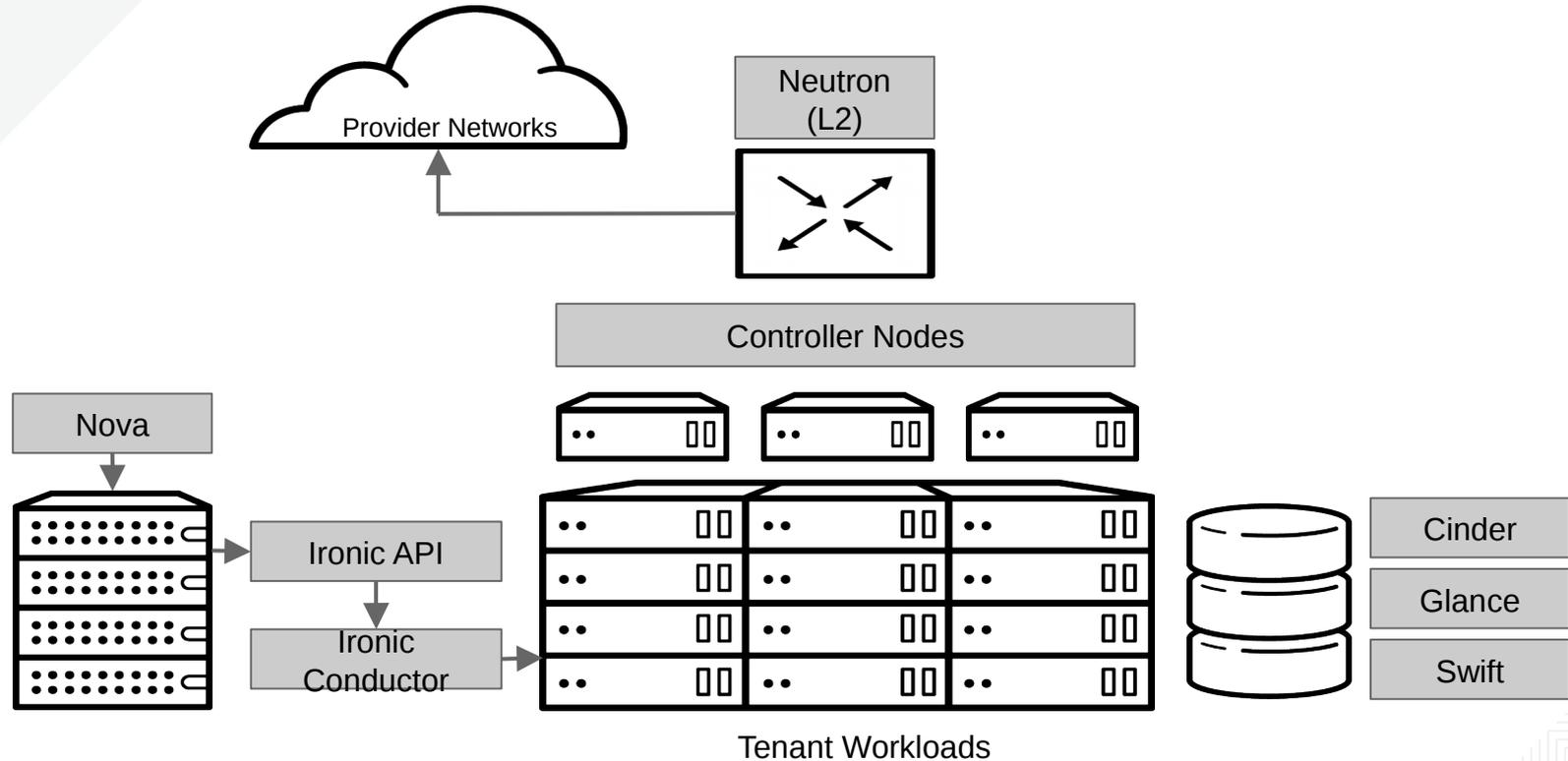


1

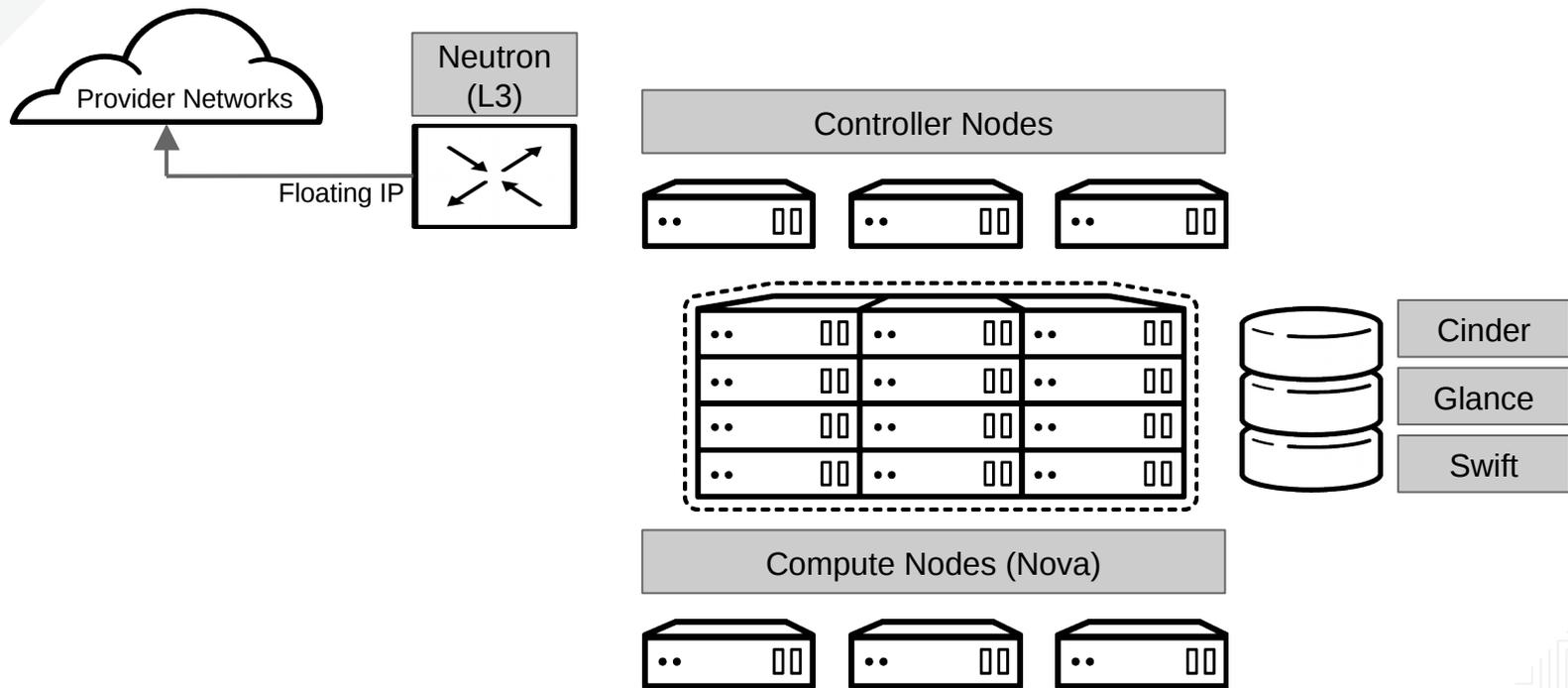
Optimize Baremetal Workloads



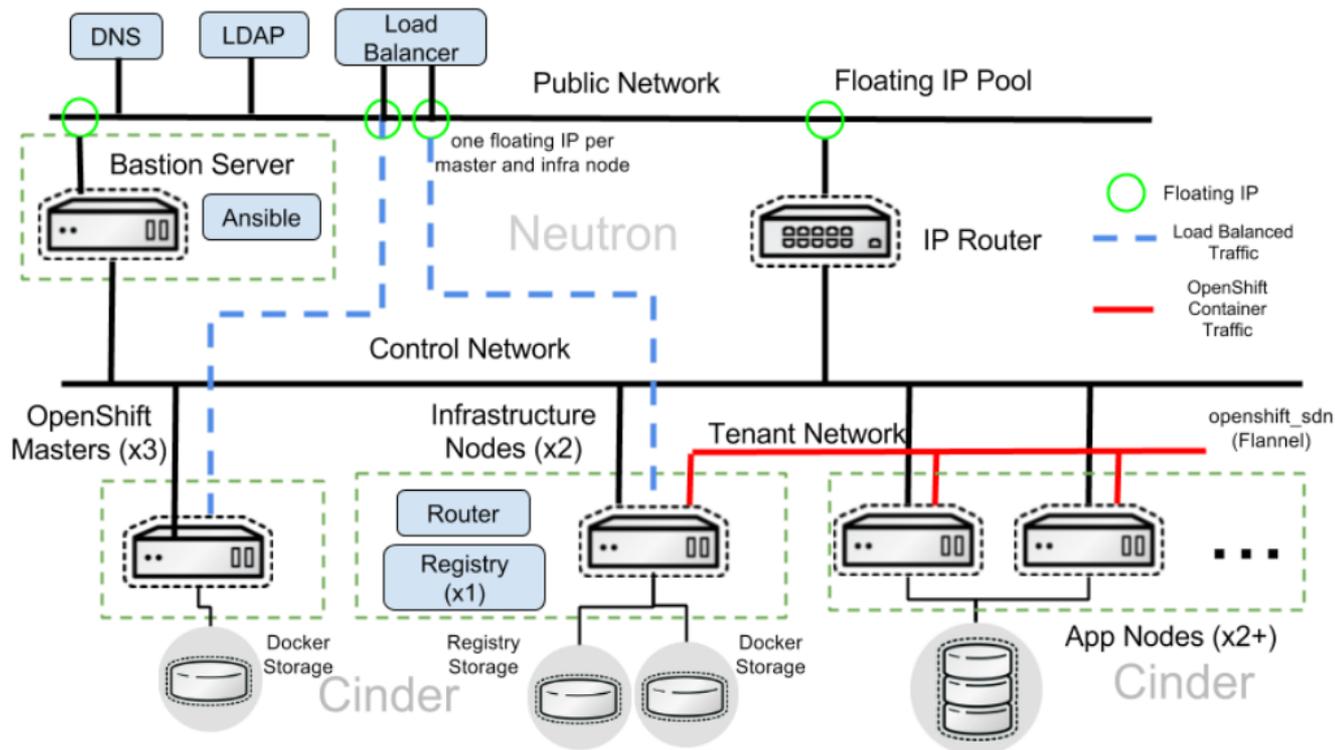
# Optimize Baremetal Workloads



# Virtual Machines from traditional platforms



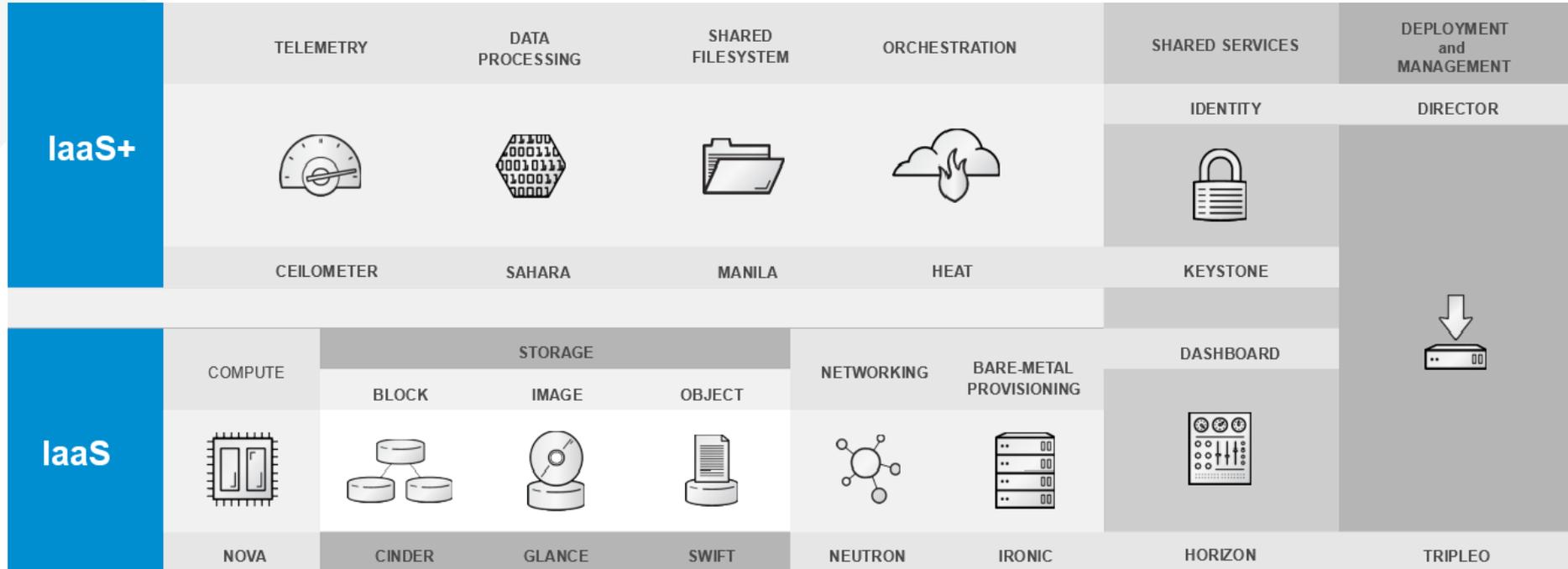
# Infrastructure for OpenShift and Container Platforms



# Some key areas of focus...

- [Nova v2 Cells](#) (Scalability)
- [TripleO + OpenStack Director](#) (Deployment, Lifecycle Management)
- Multi-site OpenStack (HA / Disaster Recovery)
- [Ironic](#) (Baremetal)
- [Kuryr](#) (OpenShift / Kubernetes Networking)

# Red Hat OpenStack 11 (Ocata)



# Red Hat OpenStack Support Lifecycle



## CUSTOMERS DESIRING LATEST FEATURES

## CUSTOMERS DESIRING LONGER LIFE VERSION

Customers moving to RHOSP 11

Customers staying on RHOSP 10

Offered on each release

Long life versions offered every 3rd release

Supported for 1 year

Offers standard 3-year lifecycle, with optional 1-2 years of ELS (extended lifecycle support)

Utilize director for automated upgrades and updates

Will offer long life > long life tooling for cloud migration

# Red Hat OpenStack Support Lifecycle

		Long life				Long life		
RHOSP 8 Liberty	RHOSP 9 Mitaka	RHOSP 10 Newton	RHOSP 11 Ocata	RHOSP 12 Pike	RHOSP 13 Queens	RHOSP 14 R...	RHOSP 15 S...	
3 years	3 years	3 years (+2 years)	1 year	1 year	3 years (+2 years)	1 year	1 year	

## Sequential Releases

- Every 6 month release of RHOSP is supported for 1 year
- No feature backports (Production Phase 2 from the start)
- In-place/online upgrades supported during this timeframe from n to n+1

## Long Life Releases

- Every 18 months, we elect an extended life support version (Long Life releases)
- Selected Backports available to Long Life releases
- In-place upgrades from N → N+1 from this release supported if done within
  - year 1 (with a 6 month buffer window)
  - Extension from 3 to 5 years at additional cost (ELS add-on)
- Upgrades from Long Life → Long Life will be done via parallel cloud migration.

# Getting Started with OpenStack

**<http://keithtzenzer.com>**

- [Ocata Lab Installation Guide \(RDO\)](#)
- [Red Hat OpenStack Platform 10 Lab Guide \(TripleO\)](#)
- [Integrating OpenStack with Ceph](#)
- [Integrating OpenStack Manila with Ceph](#)
- [Integrating OpenStack Swift with Ceph](#)
- [OpenStack Networking 101 with Examples](#)
- [OpenStack Keystone integration with LDAP and IPA](#)
- [OpenStack Heat and configuring auto-scaling](#)

DEMO TIME



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