

Welcome to OpenShift Meetup!

OKD Introduction

Alessandro Arrichiello
Solution Architect
Red Hat
[@alezzandro1986](https://twitter.com/alezzandro1986)

March 6th, 2019 - OpenShift Meetup - Milan

Natale Vinto
Specialized Solution Architect
Red Hat
[@natalevinto](https://twitter.com/natalevinto)





Thank you to our Milan Meetup Sponsors!



CLOUD NATIVE
COMPUTING FOUNDATION

AGENDA

1. OCP/OKD Introduction - Alessandro & Natale
2. OpenShift 4 & Operators (English) - Tero
3. Pizza Break
4. KNative 101: Serverless and beyond - Giuseppe
5. Metriche & Prometheus in OpenShift - Andrea

OPEN SOURCE IS THE SOURCE OF TECHNOLOGICAL INNOVATION

Linux® kernel

KVM

1M+
projects

Fedora

OpenStack®

GNOME

OpenJDK

Kubernetes

Apache Project

Hyperledger

node.js



OpenShift Origin

TensorFlow

96M* REPOSITORIES
31M* DEVELOPERS
2.1M* BUSINESSES

*GitHub Oct 2018

OPEN SOURCE
OPEN COMMUNITIES
OPEN COLLABORATION

making connections that drive
continuous innovation



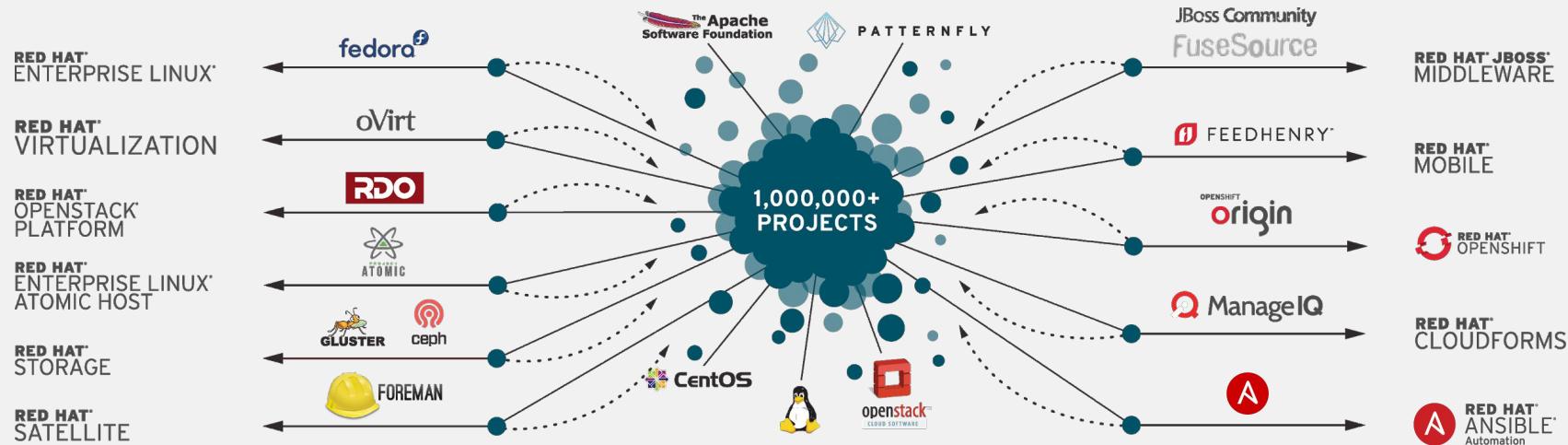
But before going in deep with..



What's the Red Hat value?

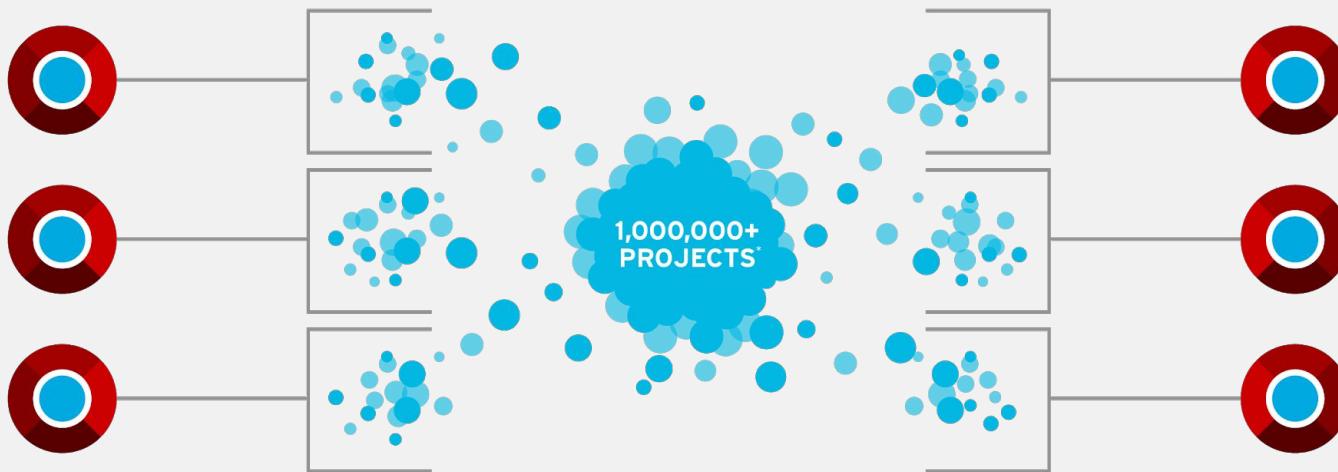
FROM COMMUNITY TO ENTERPRISE

We are building modern IT solutions



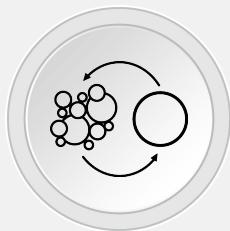
The OpenStack® Word Mark and OpenStack Logo are either registered trademarks / service marks or trademarks / service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community.

PRODUCT DEVELOPMENT MODEL



A RED HAT SUBSCRIPTION

DELIVERS CONTINUOUS VALUE EVERY DAY



CUSTOMER PORTAL



KNOWLEDGE



SECURITY



CERTIFICATIONS



SUPPORT



LIFE CYCLE



ASSURANCE

NO Premium features:



YOU GET THE WHOLE
PACKAGE!





The Origin Community Distribution of Kubernetes
that powers **Red Hat OpenShift**.

Built around a core of OCI container packaging and Kubernetes container cluster management, OKD is also augmented by application lifecycle management functionality and DevOps tooling. OKD provides a complete open source container application platform.

[DOWNLOADS](#)[USERS](#)[WHAT IS OKD?](#)[CONTRIBUTE](#)[OPENSHIFT COMMONS](#)[DOCUMENTATION](#)[★ Star](#)

Try Out The Latest **OKD** Release

```
$ oc cluster up
```

[GET STARTED](#)[DOWNLOAD OC](#)

Secure | <https://github.com/openshift/origin>

Logo Maker | Use... RHT Blog Tracker... [EARLY DRAFT] Re... GitHub Octoverse... Developer Experience... OpenShift Partner... Logo Maker | Use...

OKD: The Origin Community Distribution of Kubernetes

go report A+ godoc reference build passing Jenkins irc freenode: #openshift-dev license Apache-2.0

OKD is the Origin community distribution of [Kubernetes](#) optimized for continuous application development and multi-tenant deployment. OKD adds developer and operations-centric tools on top of Kubernetes to enable rapid application development, easy deployment and scaling, and long-term lifecycle maintenance for small and large teams. *OKD* is also referred to as *Origin* in github and in the documentation.

```
-- Installing router ... OK
-- Importing image streams ... OK
-- Importing templates ... OK
-- Login to server ... OK
-- Creating initial project "myproject" ... OK
-- Server Information ...
  OpenShift server started.
  The server is accessible via web console at:
  https://10.1.2.2:8443

  You are logged in as:
    User: developer
    Password: developer

  To login as administrator:
    oc login -u system:admin

  oc new-project example
  Now using project "example" on server "https://10.1.2.2:8443".

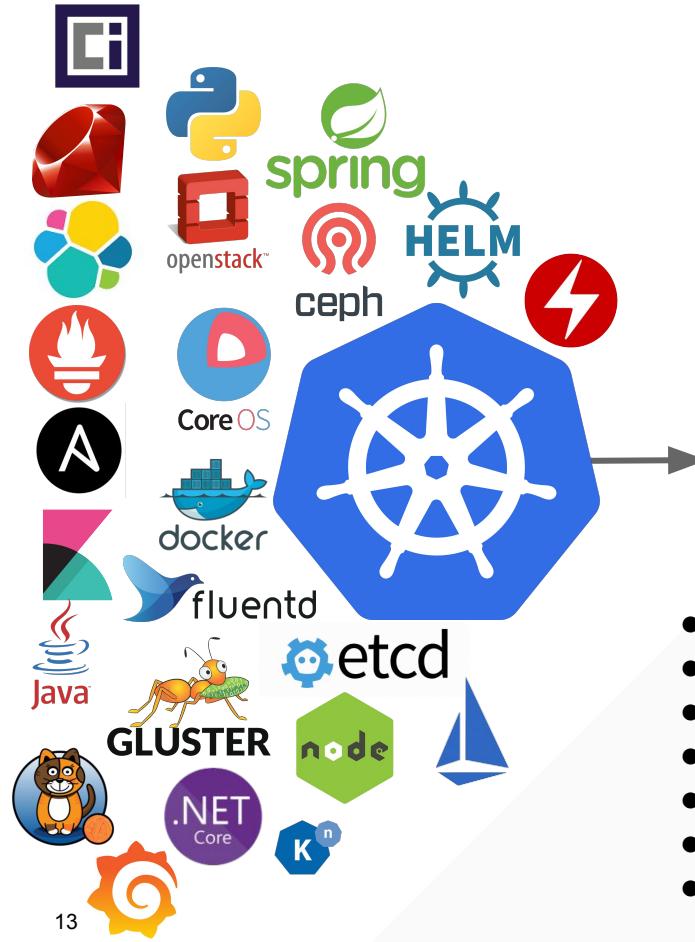
  You can add applications to this project with the 'new-app' command. For example, try:
    oc new-app centos/ruby-22-centos7~https://github.com/openshift/ruby-ex.git

  to build a new example application in Ruby.
  oc new-app -L | g
```



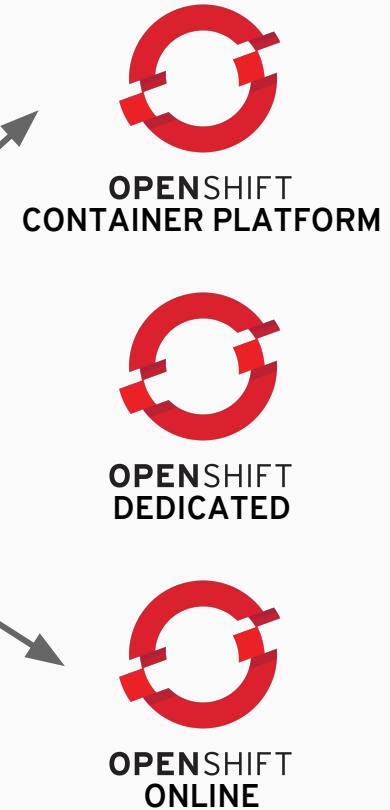
<https://github.com/openshift/origin>

Delivering OpenShift

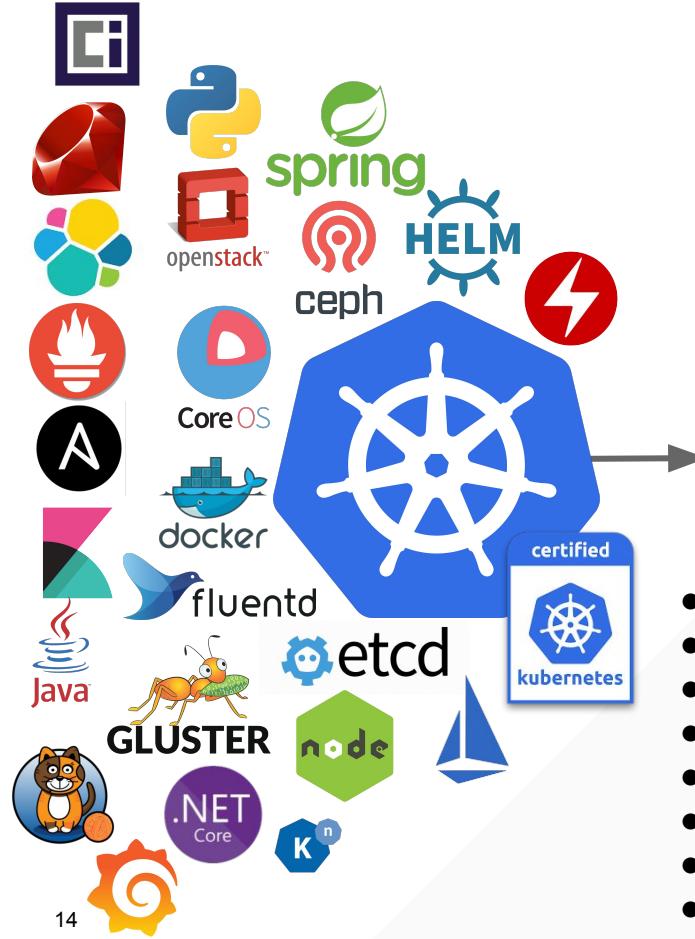


okd

- Community Kubernetes Distribution
- 100+ Integrations
- 40+ Community Operators
- Align time with OSS trunk
- Integrate OSS projects
- Partner integration platform
- No-cost validations for innovation

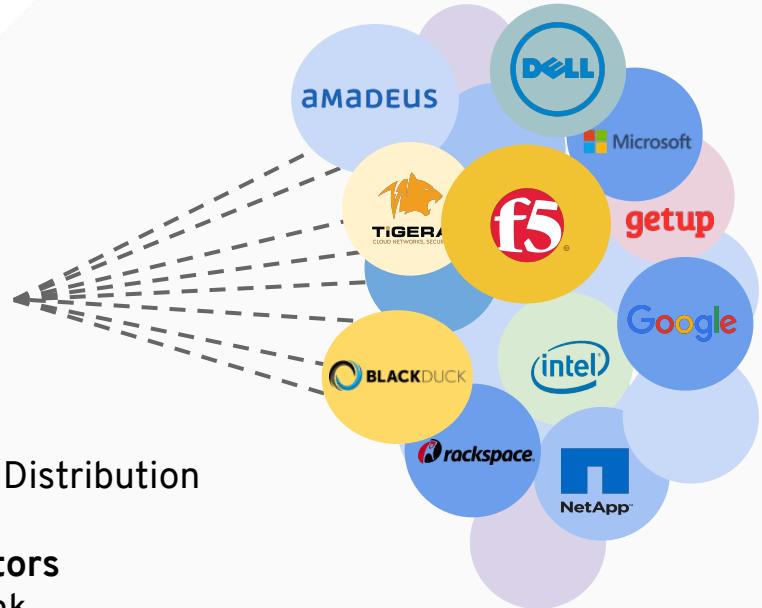


Who is OpenShift?



okd

- Community Kubernetes Distribution
- 100+ Integrations
- **40+ Community Operators**
- Align time with OSS trunk
- Integrate OSS projects
- Partner integration platform
- No-cost validations for innovation
- **OpenShift Commons**



**THE FUTURE IS ALL
ABOUT
CROSS-COMMUNITY
COLLABORATION**

Release
Stein

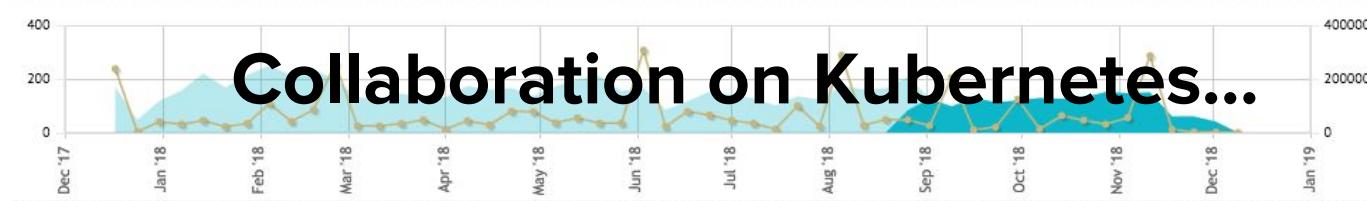
Project Type
Kubernetes

Module
kubernetes

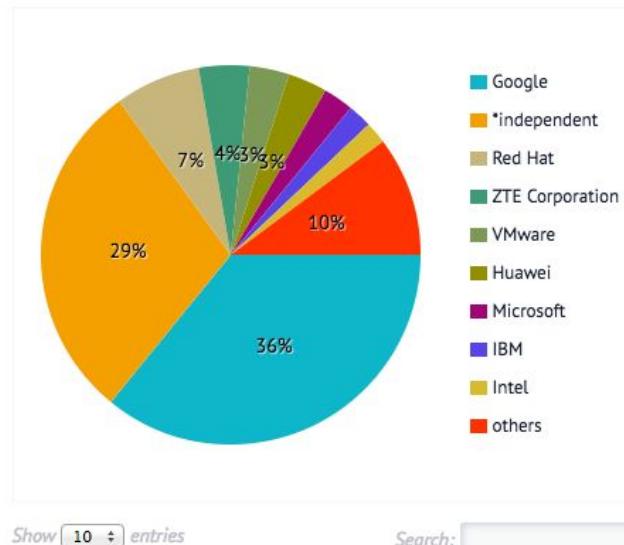
Company
Any company

Contributor
Any contributor

Metric
Commits



Contribution by companies



Kubernetes

Repo: <git://github.com/kubernetes/kubernetes.git>

Activity Log

 **Satyadeep Musuvathy (Google)**
 07 Dec 2018 23:30:47 UTC in **kubernetes**
 Commit "Include BGPConfiguration"
 Needed for calico 2.x to 3.x upgrade.
 +15 - 0

 **Antoine Pelisse (*independent)**
 07 Dec 2018 17:46:09 UTC in **kubernetes**
 Commit "apply: fix detection of non-dry-run enabled servers"
 Apply only checks that the server supports dry-run in the create path, not the update path, which is pretty bad.
 +7 - 6

 **Maciej Szulik (Red Hat)**
 07 Dec 2018 13:33:04 UTC in **kubernetes**
 Commit "Add failed and successful history limits to cronjob describe"

KUBERNETES SIGs & WGs- ENGINEERING LEADERSHIP

21 of 43
GROUPS

RED HAT LEAD or CO-LEAD

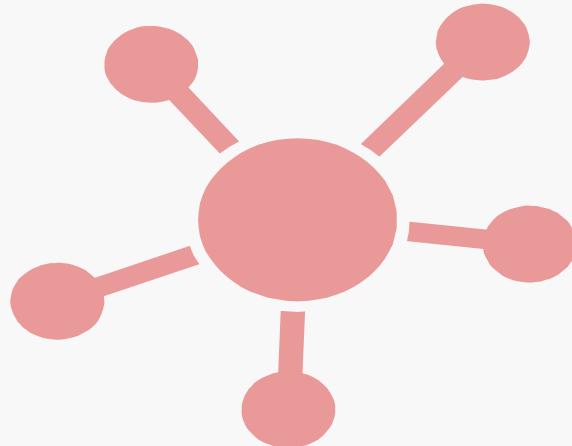
API MACHINERY	APPS	ARCHITECTURE	AUTH	AUTO SCALING	AWS
AZURE	BIG DATA	CLI	CLOUD PROVIDER	CLUSTER LIFECYCLE	CLUSTER OPS
CONTRIBUTOR EXPERIENCE	DOCS	GCP	IBM CLOUD	INSTRUMENTATION	MULTICLUSTER
NODE	OPENSTACK	PRODUCT MANAGEMENT	RELEASE	SCALABILITY	SCHEDULING
SERVICE CATALOG	STORAGE	TESTING	UI	VMware	WINDOWS
APP DEF	APPLY	COMPONENT STANDARD	CONTAINER IDENTITY	IoT EDGE	K8S INFRASTRUCTURE
KUBEADM ADOPTION	MACHINE LEARNING	MULTI TENANCY	POLICY	RESOURCE MANAGEMENT	SECURITY AUDIT*



**WE WANT TO HEAR YOUR VOICE!
JOIN US AT OPENSHIFT COMMONS**

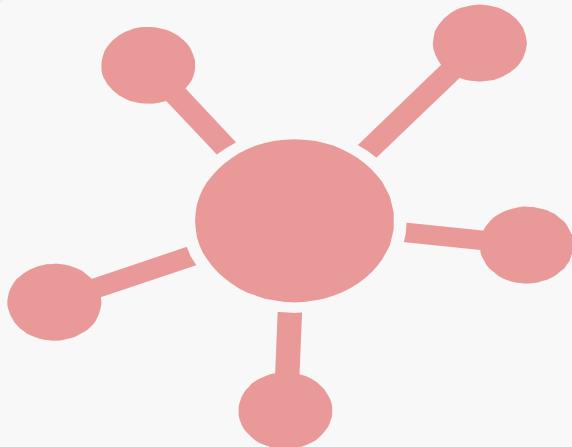
So What is OpenShift Commons?

New Community Model + Communications Channel



Commons as a Community Collaboration Model

New Community Model



Promote Peer-to-Peer Interactions



The video player displays a presentation slide with the following text:

Building Data Streaming Platforms
Using OpenShift and Kafka

Openshift @ Amadeus

Pierre Dor *Senior Architect*
Nenad Bogojević *Senior Expert*
Olivier Richard *Senior Manager*

At the bottom, there is a control bar with the Red Hat OpenShift logo, playback controls (rewind, forward, volume), and a timestamp of 0:00 / 19:40.

OpenShift Commons Gathering at Red Hat Summit 2018 Amadeus Kafka on OpenShift Case Study

What: Community-driven content generation ++

OpenShift Commons Gathering at Red Hat Summit

OpenShift - 1 / 28



OpenShift Commons Gathering at
Red Hat Summit 2018 Amadeus
OpenShift
19:41



OpenShift Commons Gathering Red
Hat Summit 2018 Community
OpenShift
11:00



OpenShift Commons Gathering at
Red Hat Summit 2018 UPS Case
OpenShift
20:54



OpenShift Commons Gathering at
Red Hat Summit 2018 Quay at Cisco
OpenShift
21:24



OpenShift Commons Gathering at
Red Hat Summit 2018 Syngenta
OpenShift
17:53



OpenShift Commons Gathering at
Red Hat Summit 2018 BMO Case
OpenShift
19:22

Red Hat Enterprise Linux

**START PLAYING:
NOW.**

MINISHIFT IS WAITING YOU

[Welcome to Minishift!](#)

[Getting started](#)

[Documentation](#)

[Community](#)

Welcome to Minishift!

Minishift is a tool that helps you run OpenShift locally by running a single-node OpenShift cluster inside a VM. You can try out OpenShift or develop with it, day-to-day, on your local host.

Minishift uses [libmachine](#) for provisioning VMs, and [OpenShift Origin](#) for running the cluster. The code base is forked from the [Minikube](#) project.

<https://github.com/minishift/minishift>



DON'T TRUST US:
LOOK.

STARTING MINISHIFT

WHAT'S INSIDE THE BOX?

OH, DON'T TELL ME:
ARE YOU LAZY?

learn.openshift.com

Foundations of
OpenShift

START COURSE

Building
Applications On
OpenShift

START COURSE

Subsystems,
Components, and
Internals

START COURSE

OpenShift
Playgrounds

START COURSE

Service Mesh
workshop with Istio

START COURSE

Serverless scenarios
with OpenShift
Cloud Functions

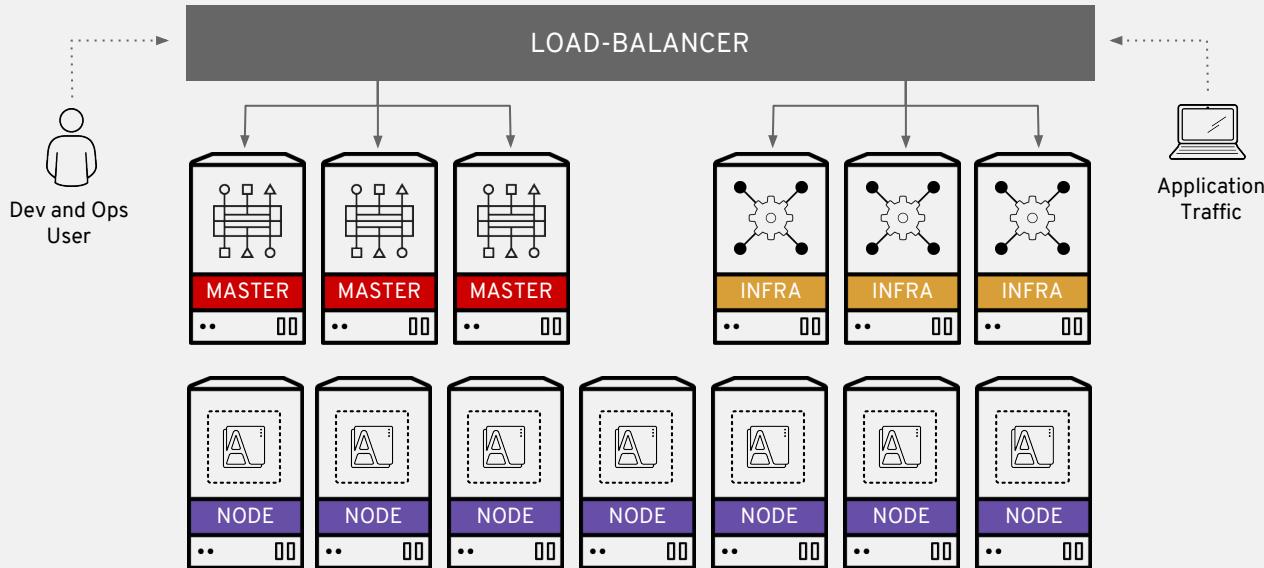
START COURSE

Interactive Learning Scenarios provide you with a pre-configured OpenShift instance, accessible from your browser without any downloads or configuration.



LAST SLIDE IS COMING

OPENSHIFT HA ARCHITECTURE



THANK YOU



plus.google.com/+RedHat



facebook.com/redhatinc



linkedin.com/company/red-hat



twitter.com/RedHat



youtube.com/user/RedHatVideos

<https://www.meetup.com/OpenShift-and-Cloud-Native-Milano>

