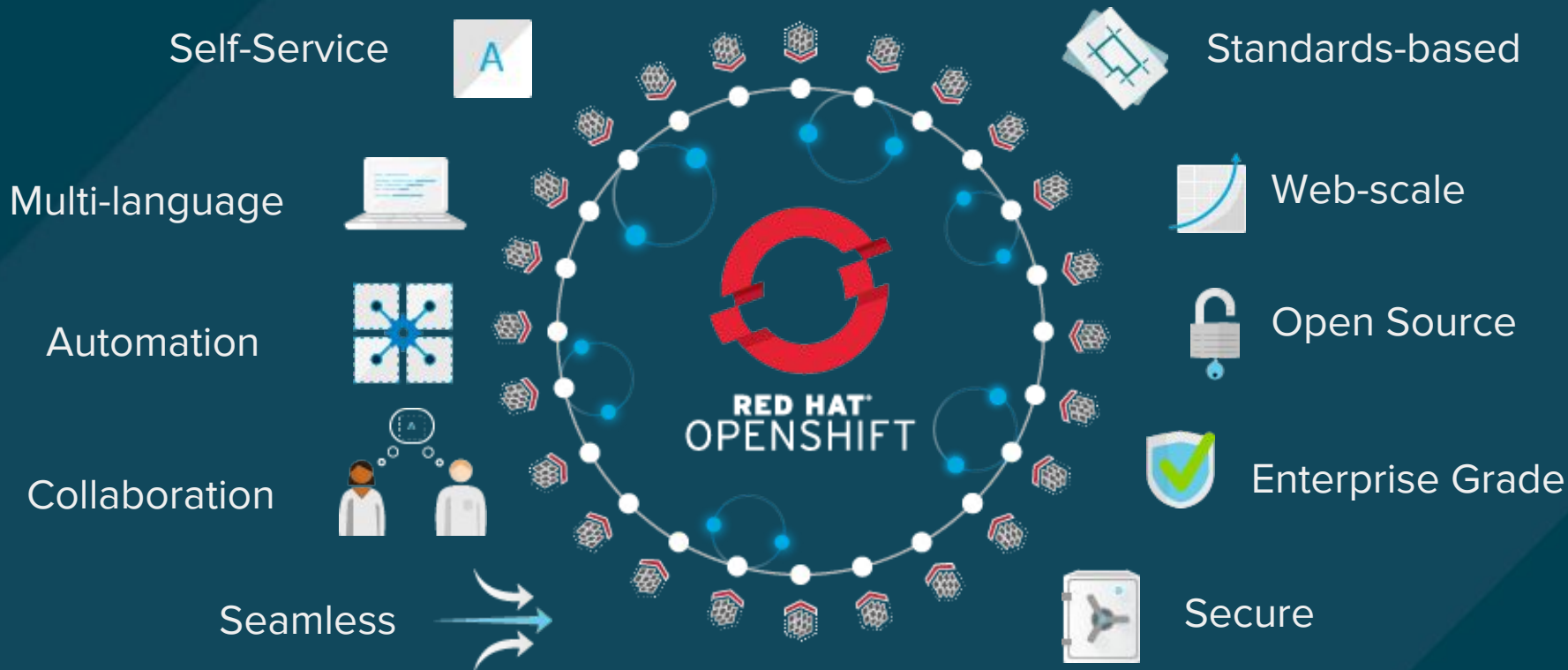


L100070

# OPENSIFT FOR OPERATORS

N. Harrison Ripps  
Erik Jacobs  
Jim Minter

# Critical features for both Dev and Ops



# Trusted Container OS



## Enterprise Container Host

Container Runtime & Packaging  
(Docker)

Atomic Host

Red Hat Enterprise Linux

Trusted by Fortune Global  
500 companies



# Enterprise Kubernetes



Container Orchestration & Cluster Management  
(kubernetes)

Networking

Storage

Registry

Logs &  
Metrics

Security

Infrastructure Automation & Mg



Enterprise Container Host

Container Runtime & Packaging  
(Docker)

Atomic Host

Red Hat Enterprise Linux



**kubernetes**  
**Cloudforms**  
**Red Hat Storage**

# Enterprise Container Platform



Self-Service

Service Catalog  
(Language Runtimes, Middleware, Databases)

Build Automation

Deployment Automation

OpenShift Application Lifecycle Management  
(CI/CD)



Container Orchestration & Cluster Management  
(kubernetes)

Networking

Storage

Registry

Logs &  
Metrics

Security

Infrastructure Automation & Cockpit



**Enterprise Container Host**

Container Runtime & Packaging  
(Docker)

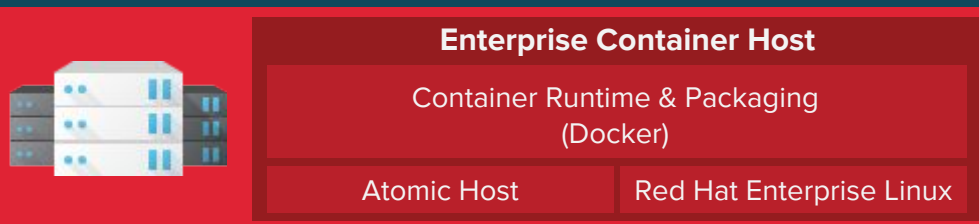
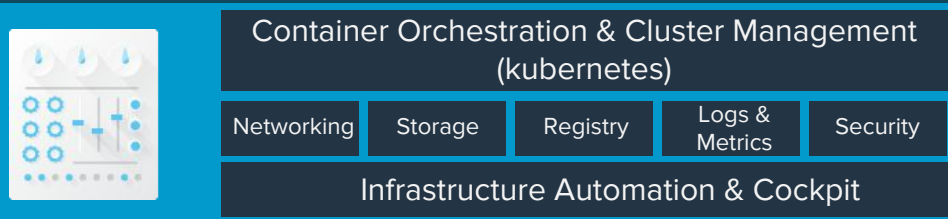
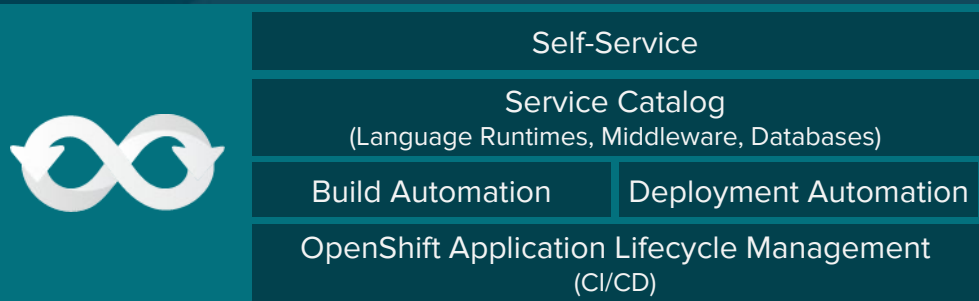
Atomic Host

Red Hat Enterprise Linux

**Source-2-Image  
Application Pipelines  
Dev Tools**

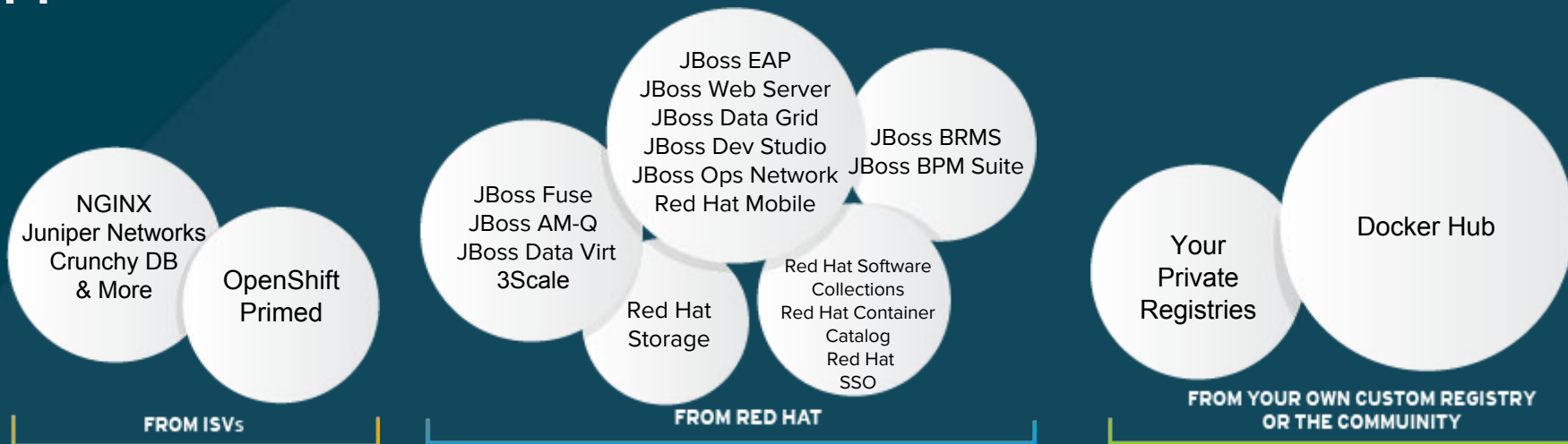
# Traditional, Stateful, and Microservices-based Apps

Business Automation	Integration	Data & Storage	Web & Mobile
Container	Container	Container	Container

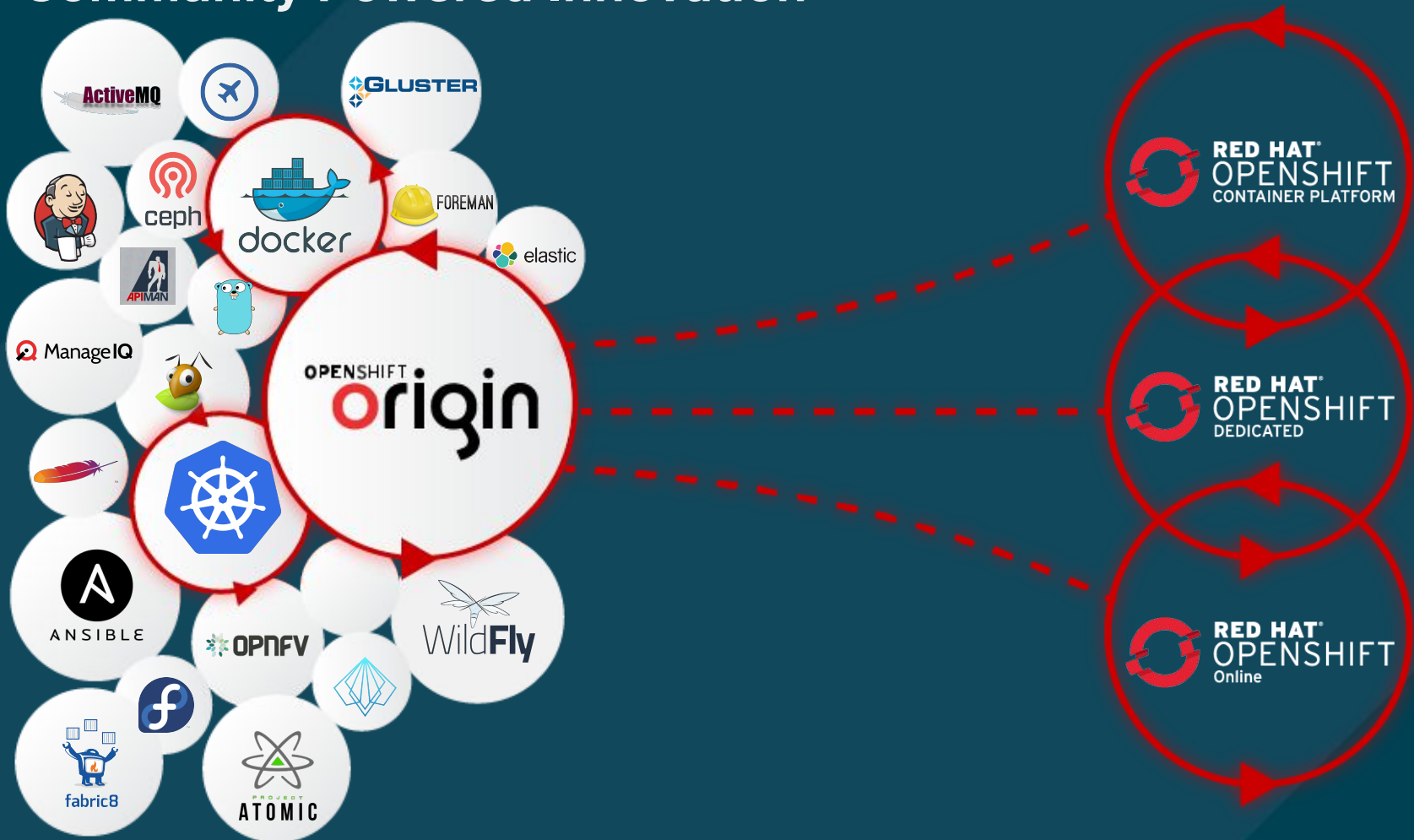


**JBoss EAP**  
**JBoss Data Grid**  
**JBoss Data Virtualization**  
**JBoss AM-Q**  
**JBoss BRMS**  
**JBoss BPM**  
**JBoss Fuse**  
**Red Hat Mobile**  
**3 Scale**

# Application Services



# Community Powered Innovation

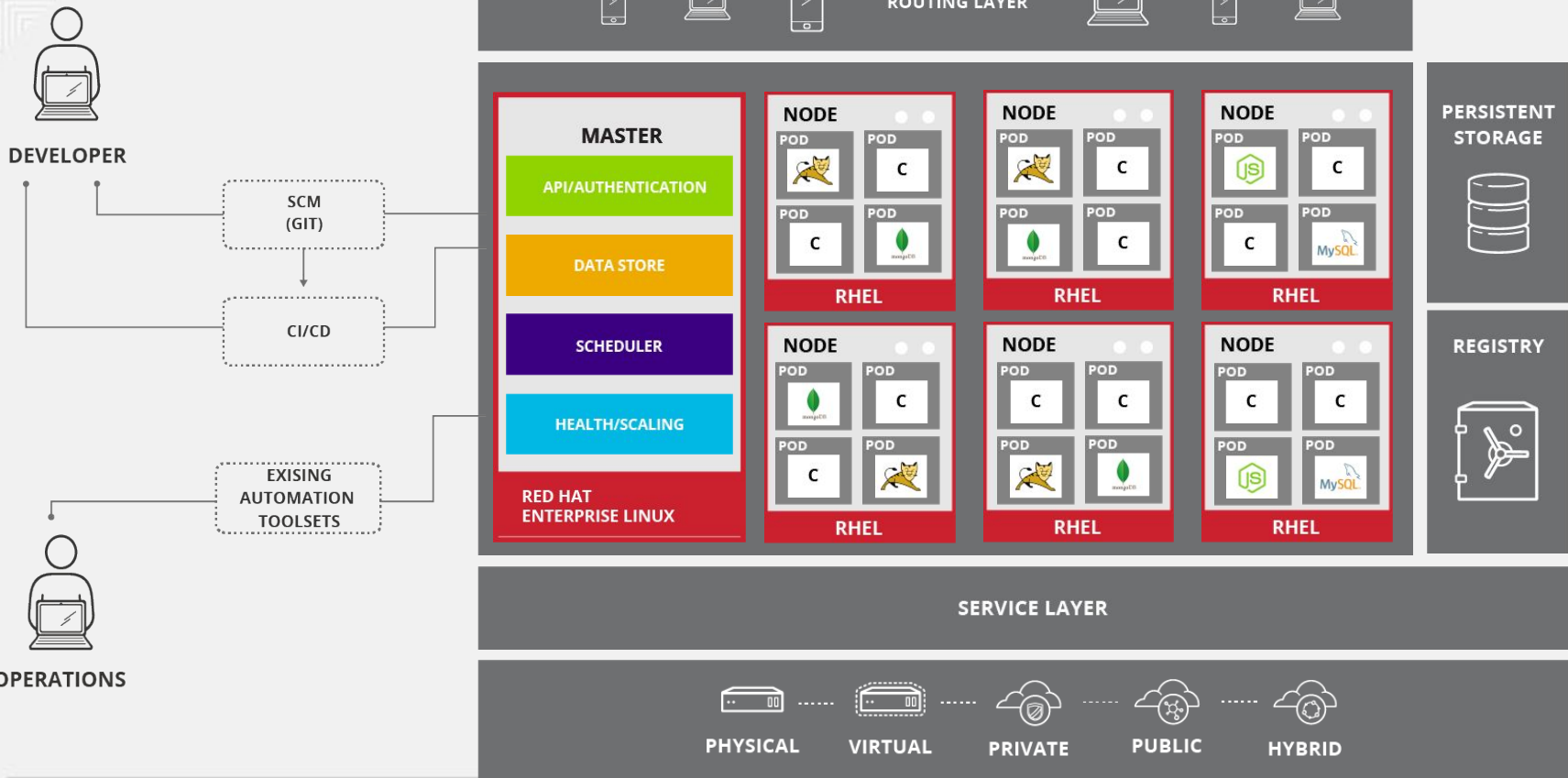




# OpenShift

Architecture Overview

# 10,000 foot overview



# OpenShift runs on your choice of infrastructure



PHYSICAL



VIRTUAL



PRIVATE

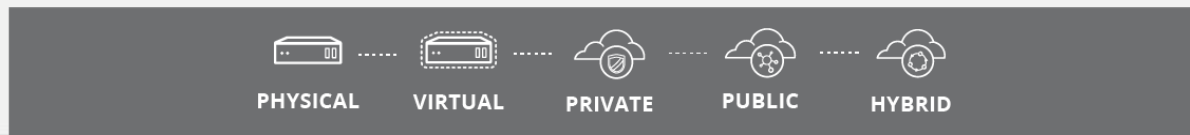
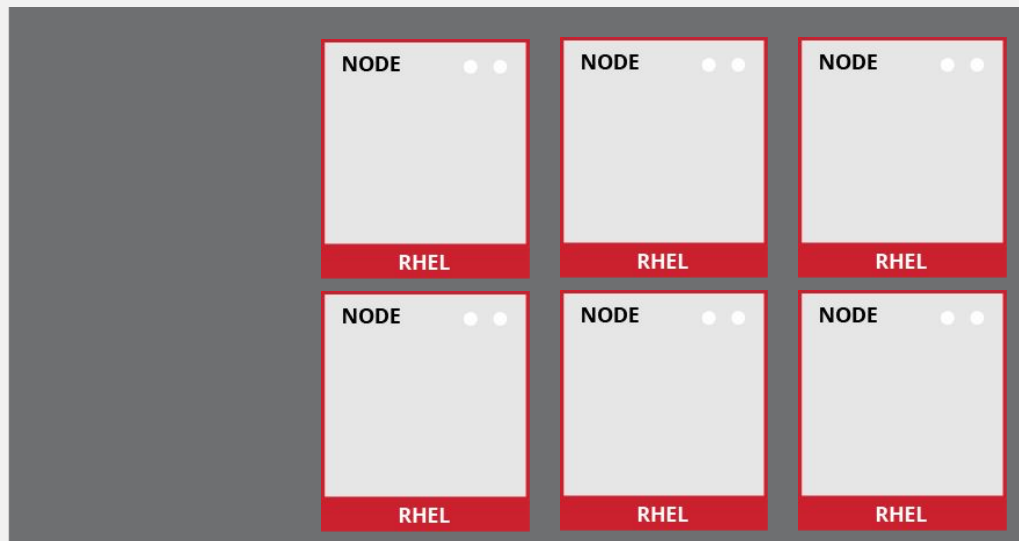


PUBLIC



HYBRID

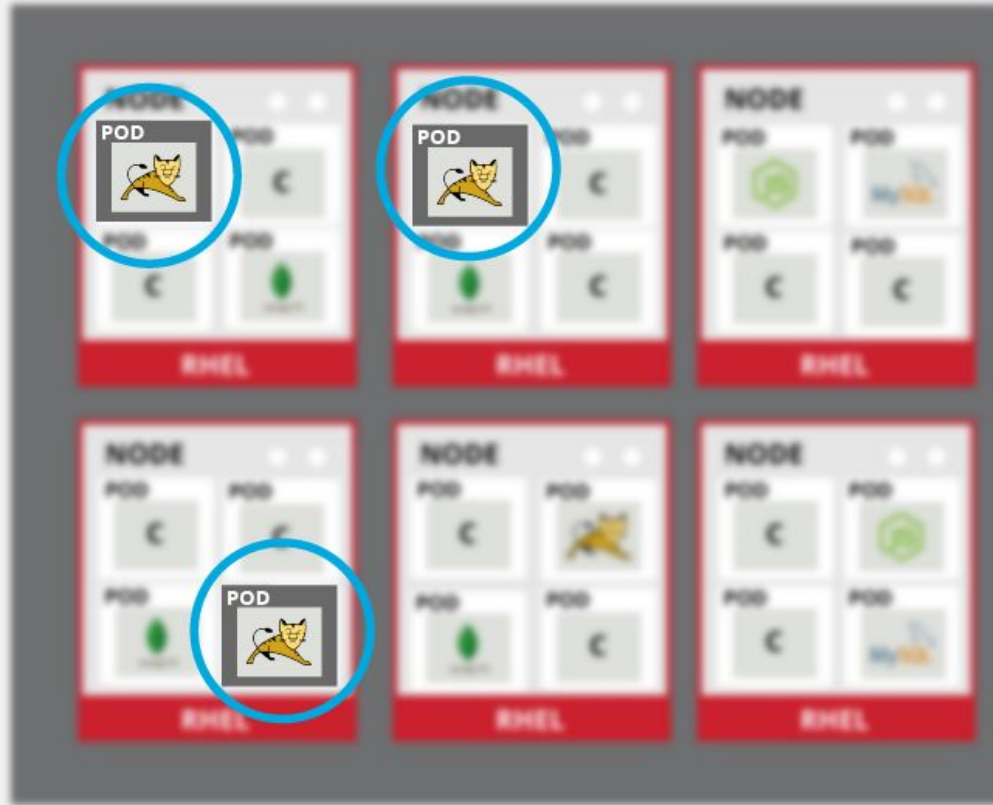
# Nodes are instances of RHEL where apps will run



# Apps and components run in containers

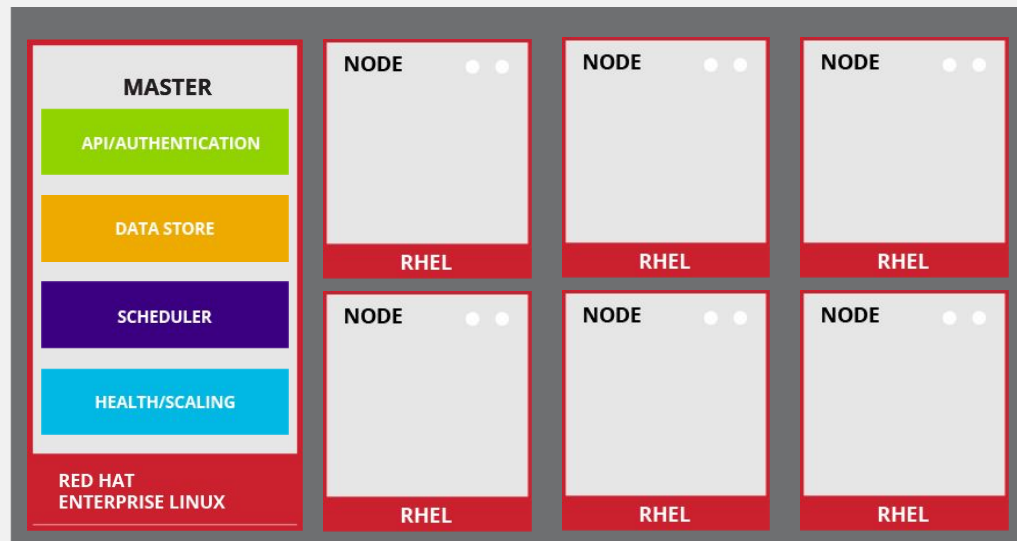


# Pods are the orchestrated unit in OpenShift

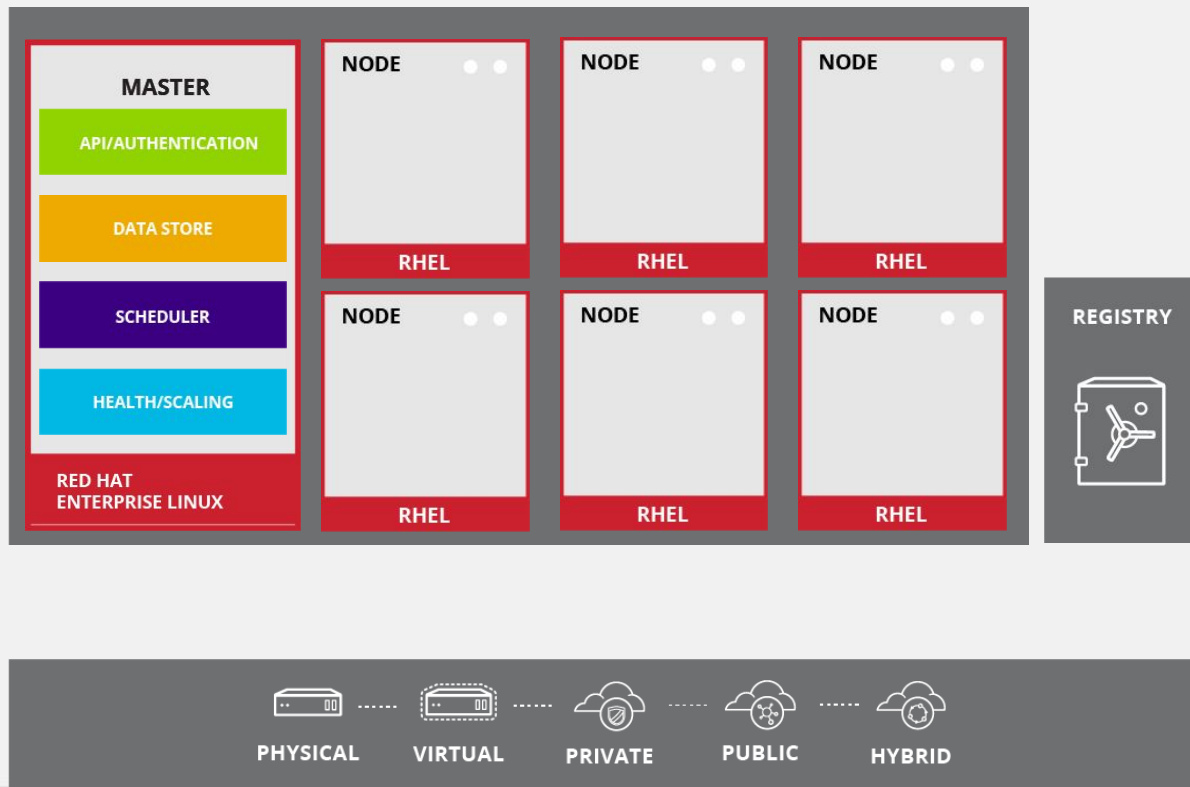




# Masters are the Control Plane

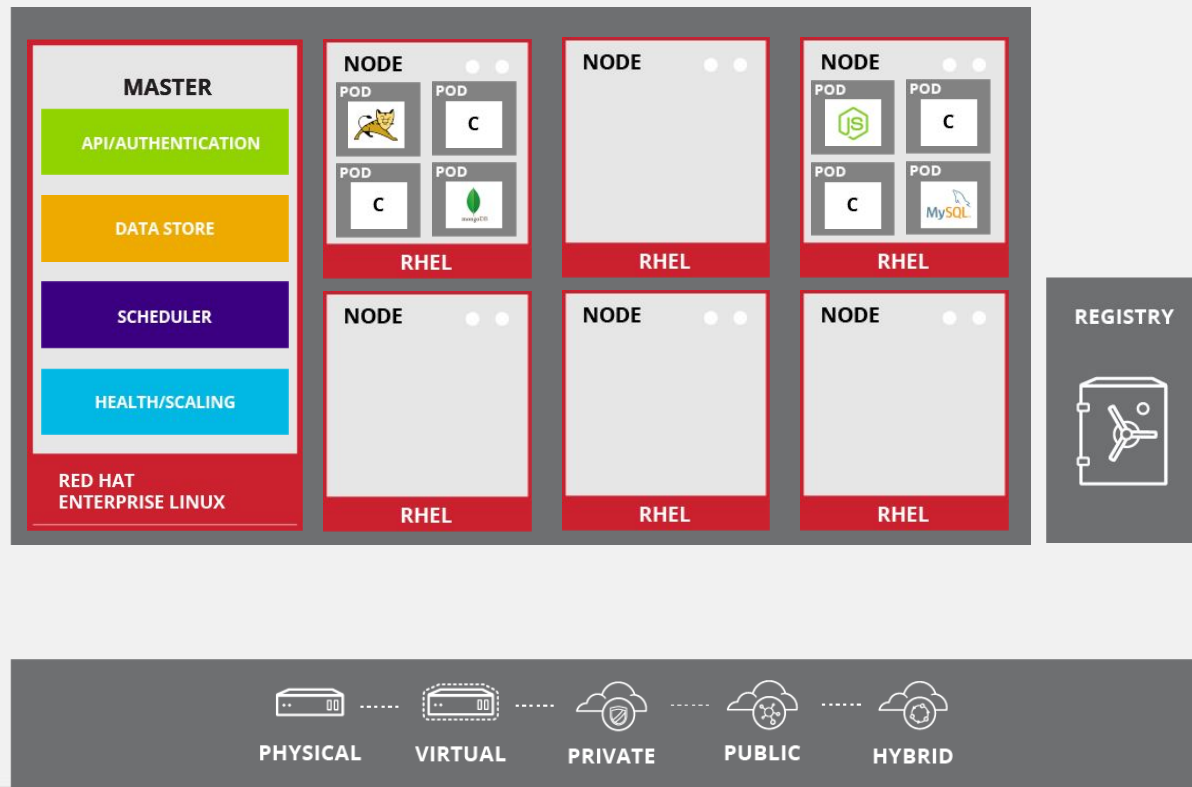


# Images are Pulled From The Registry

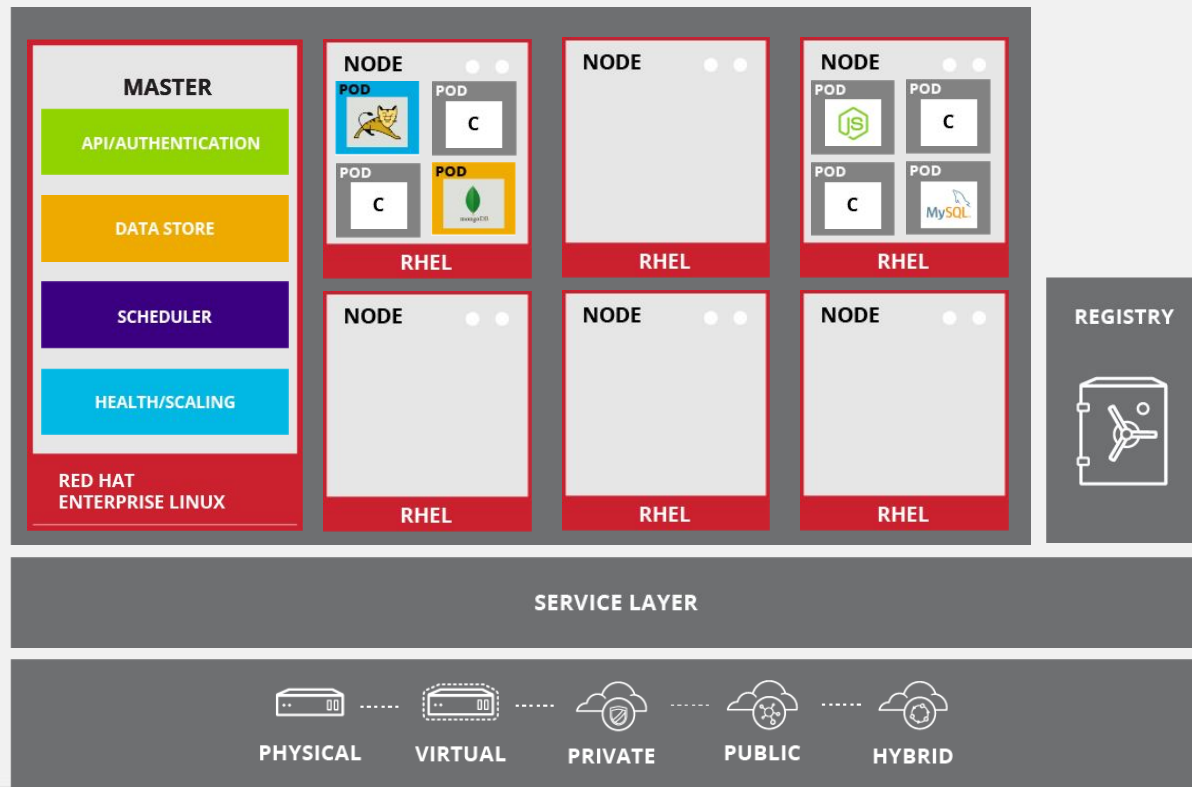




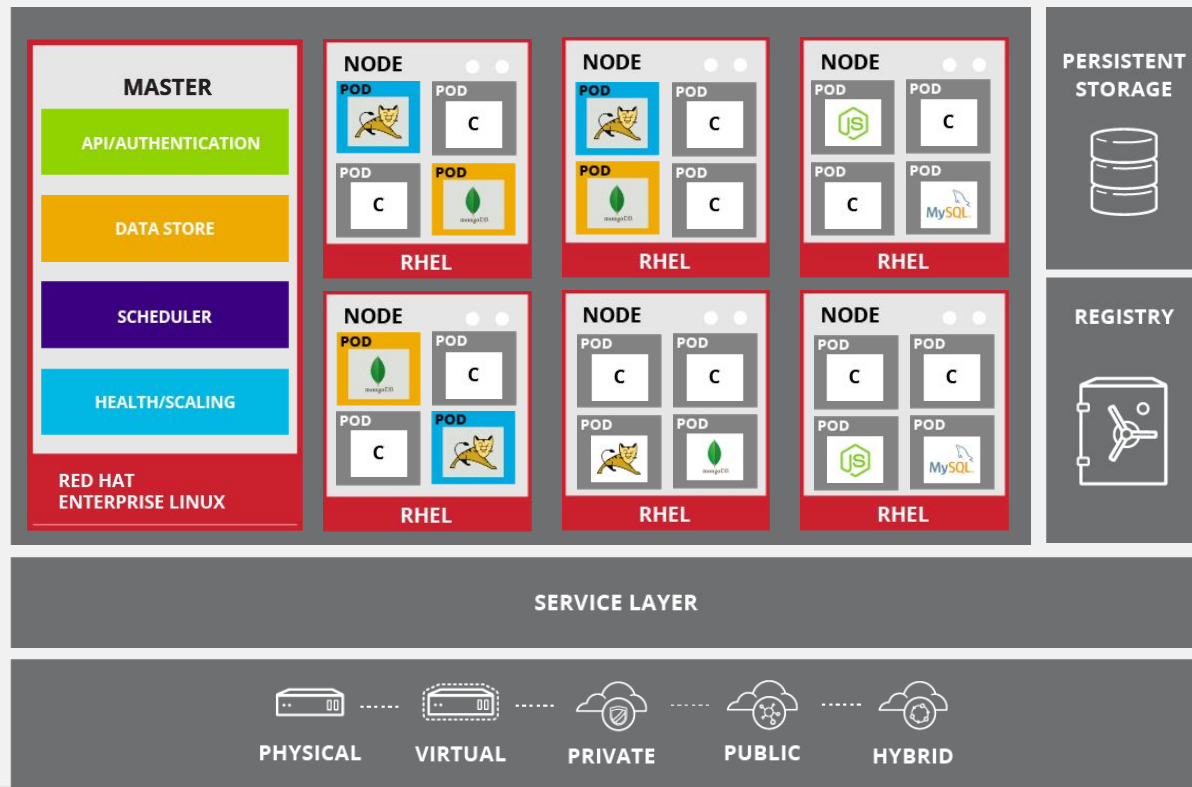
# Placement by Policy



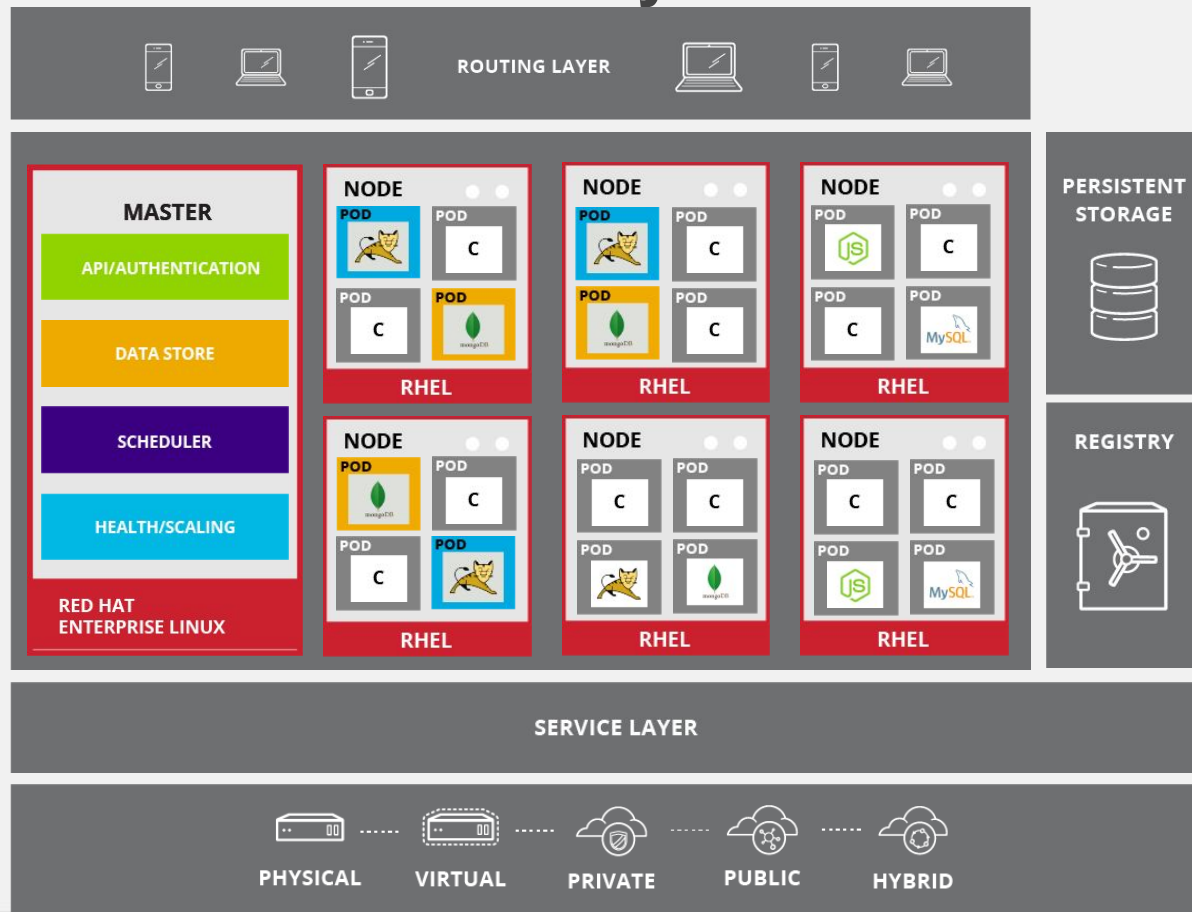
# Services connect application components



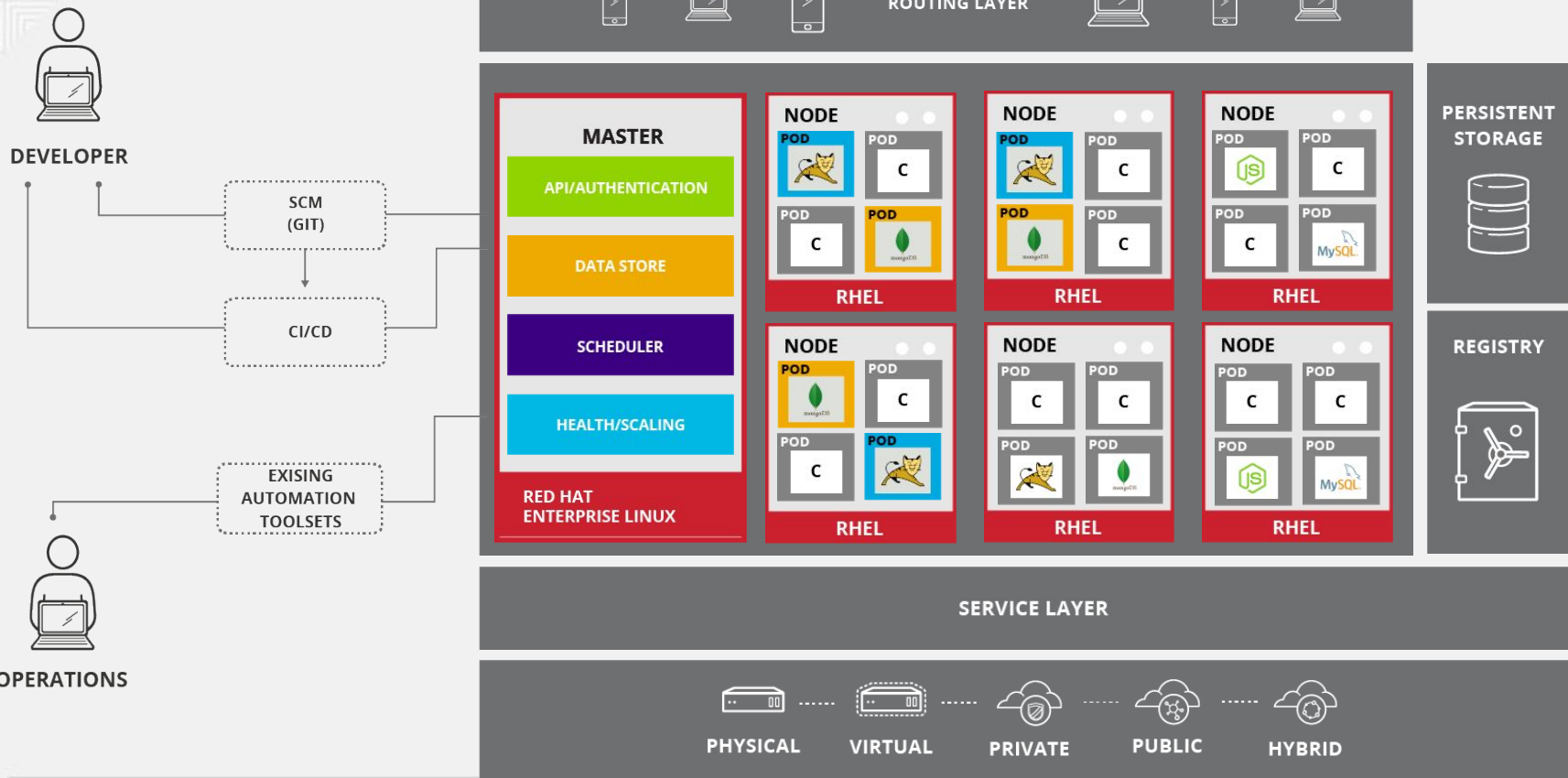
# What about app data?



# Routing layer for external accessibility



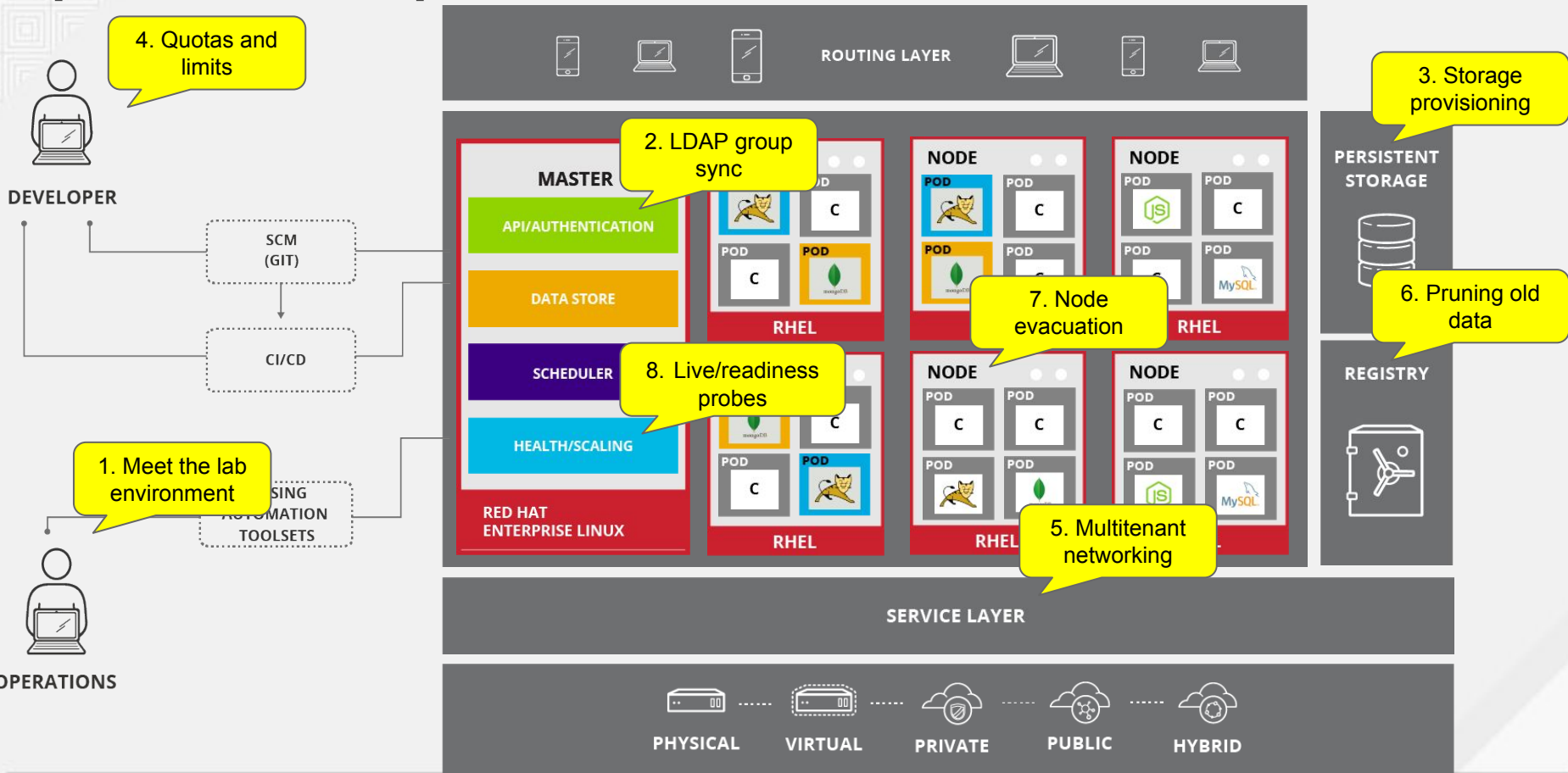
# Access via Web UI, CLI, IDE, API



# Labs Overview



# OpenShift for Operators



# Better... together!

- Lab guide on your desktop
- 4 VMs running on your workstation in a virtual subnet
  - Master + NFS
  - Node x2
  - LDAP
- We will do each lab together
  - Us on projector
  - You on your machine
- Feel free to move ahead
  - Only questions about “current” exercise