

# INDEX

SAN FRANCISCO

Discover. Collaborate. Deploy.

## Developing and Deploying Microservices to IBM Cloud private

Get Lab Handout:

<http://ibm.biz/StockTraderLab>

Then follow handout instructions to get your  
Skytap environment.

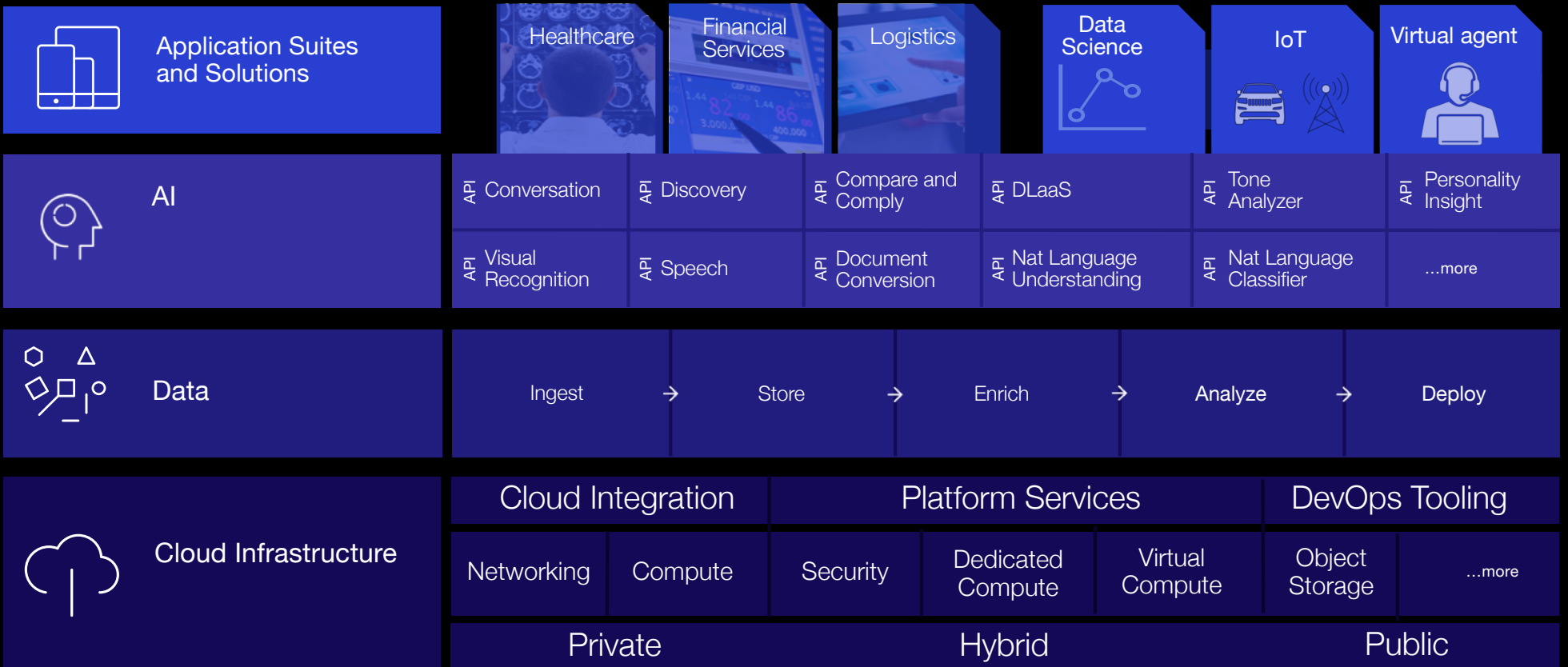
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# IBM Cloud



# IBM Cloud Private: A cloud native platform with Enterprise grade content



## IBM Middleware, Data, Analytics and Developer Services

Cloud enabled middleware, messaging, databases, analytics, and cognitive services to optimize current investments while rapidly innovating



Enterprise grade services for Middleware, Data, Analytics, DevOps



## Core Operational Services

Simplify Operations Management, Security, and Hybrid integration  
Provision infrastructure and apps across Multi-Cloud environments

Enterprise grade operations, across your Hybrid IT environment



## Kubernetes-based Container Platform

Industry leading container orchestration platform across private, dedicated & public clouds



CLOUDFOUNDRY

## Cloud Foundry

For prescribed app development & deployment

Open by design, preventing vendor lock-in

Runs on existing IaaS:

vmware



System Z



IBM Spectrum

CMS

Leverage existing investments

Third Party alliances:

Dell

Cisco

NetApp

Lenovo

Canonical ...

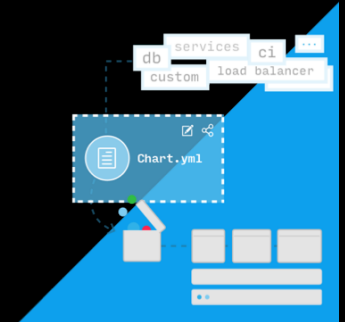


# What is Kubernetes?

- Container orchestrator
- Runs and manages containers
- Supports multiple cloud and bare-metal environments
- Inspired and informed by Google's experiences and internal systems
- 100% Open source, written in Go
- Manage applications, not machines
- Rich ecosystem of plug-ins for scheduling, storage, networking

# Helm – Introduction

*Helm helps you manage Kubernetes applications — Helm Charts helps you define, install, and upgrade even the most complex Kubernetes application.*



## Why Teams ❤️ Helm



### Manage Complexity

Charts describe even the most complex apps; provide repeatable application installation, and serve as a single point of authority.



### Easy Updates

Take the pain out of updates with in-place upgrades and custom hooks.



### Simple Sharing

Charts are easy to version, share, and host on public or private servers.



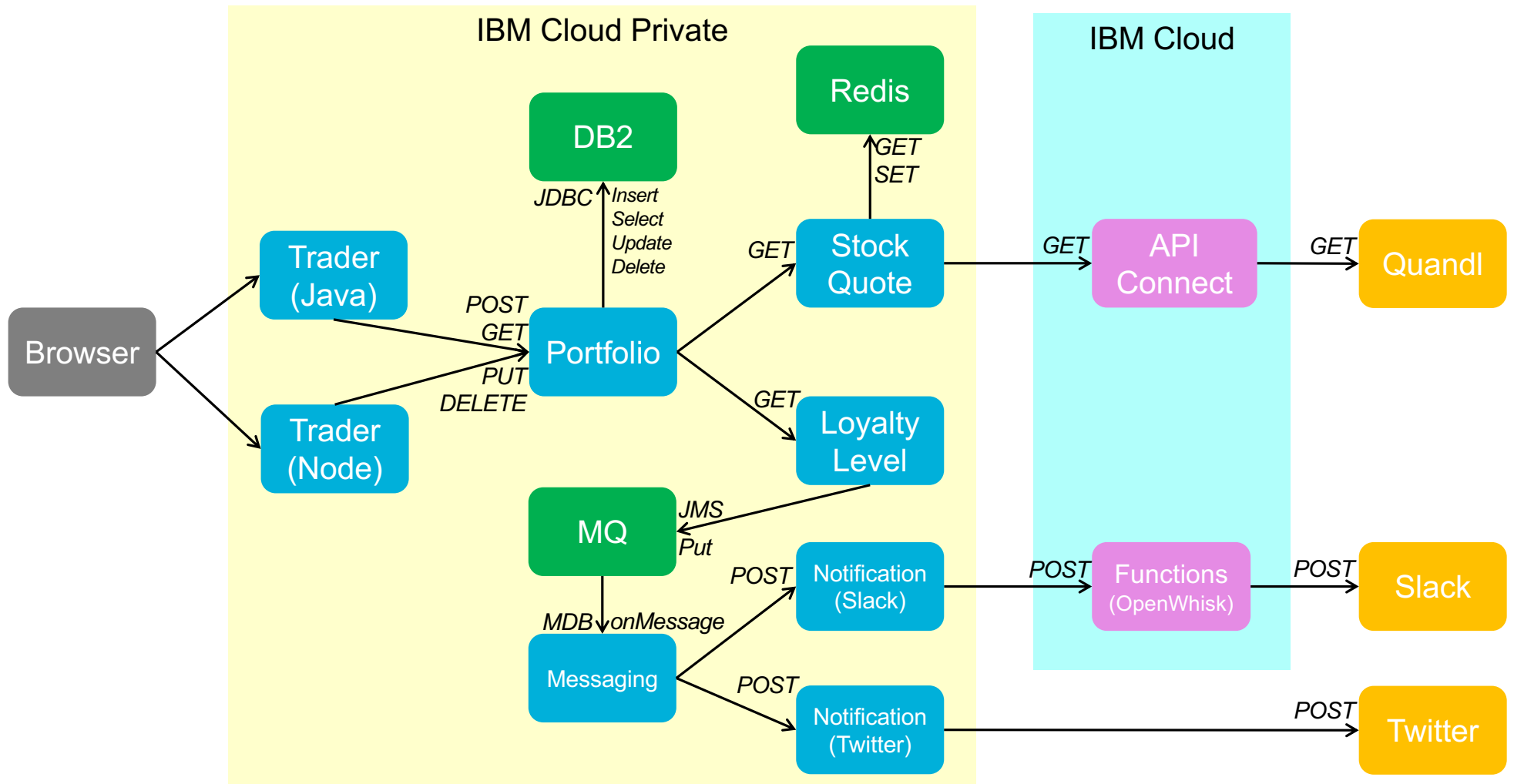
### Rollbacks

Use `helm rollback` to roll back to an older version of a release with ease.

# Understanding the Lab

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## Stock Portfolio sample for IBM Cloud Private



# Lab Flow

- Introduction to StockTrader
- Introduction to IBM Cloud Private UI
- Using the Kubernetes CLI
- Scaling StockTrader
- Deploying Your Own Instance of MQ Messaging Service
- Edit Code and Deploy a New Version of a StockTrader Micro-Service

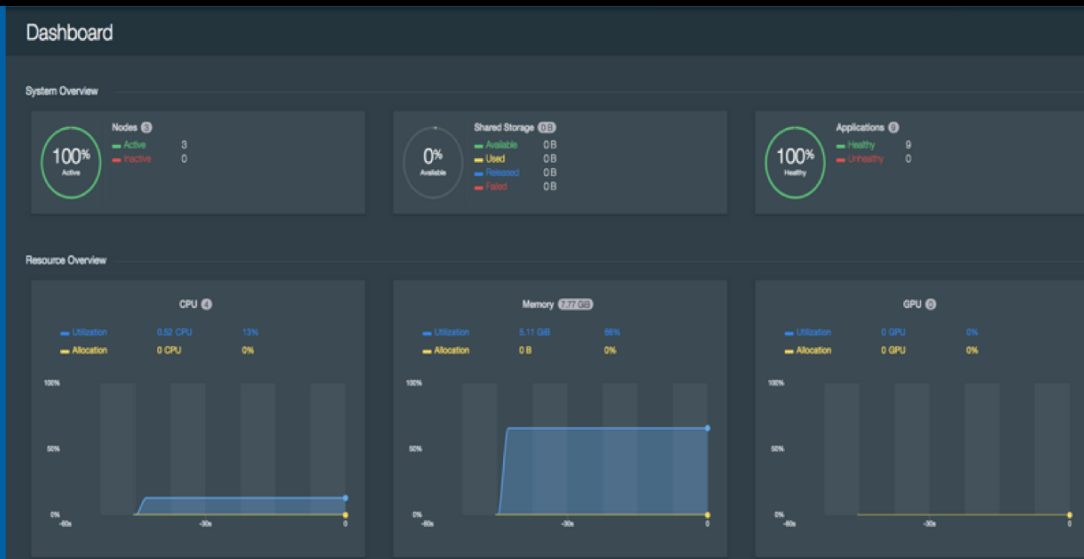


# Resources

- Videos
    - [How we Build Stock Trader In IBM Cloud Private](#)
    - [IBM Cloud Private – Playlist](#)
  - Blogs
    - [Intro to IBM Cloud Private](#)
    - [Build and Continuously Deliver Java Microservices in IBM Cloud Private](#)
    - [Developing Microservices for IBM Cloud Private](#)
  - Recipes
    - [Use Kubernetes Secrets to make your app portable](#)
    - [Running Istio on IBM Cloud Private](#)
    - [Deploy MQ into IBM Cloud Private](#)
    - [Deploy Db2 into IBM Cloud Private](#)
  - Knowledge Center
    - [IBM Cloud Private](#)
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# Learn more and try IBM Cloud Private today

## Learn more and try the IBM Cloud Private Community Edition



Product website <http://ibm.biz/IBM-Cloud-Private>

Community edition <https://hub.docker.com/r/ibmcom/icp-inception/>