

Cloud Pack MQ & HA

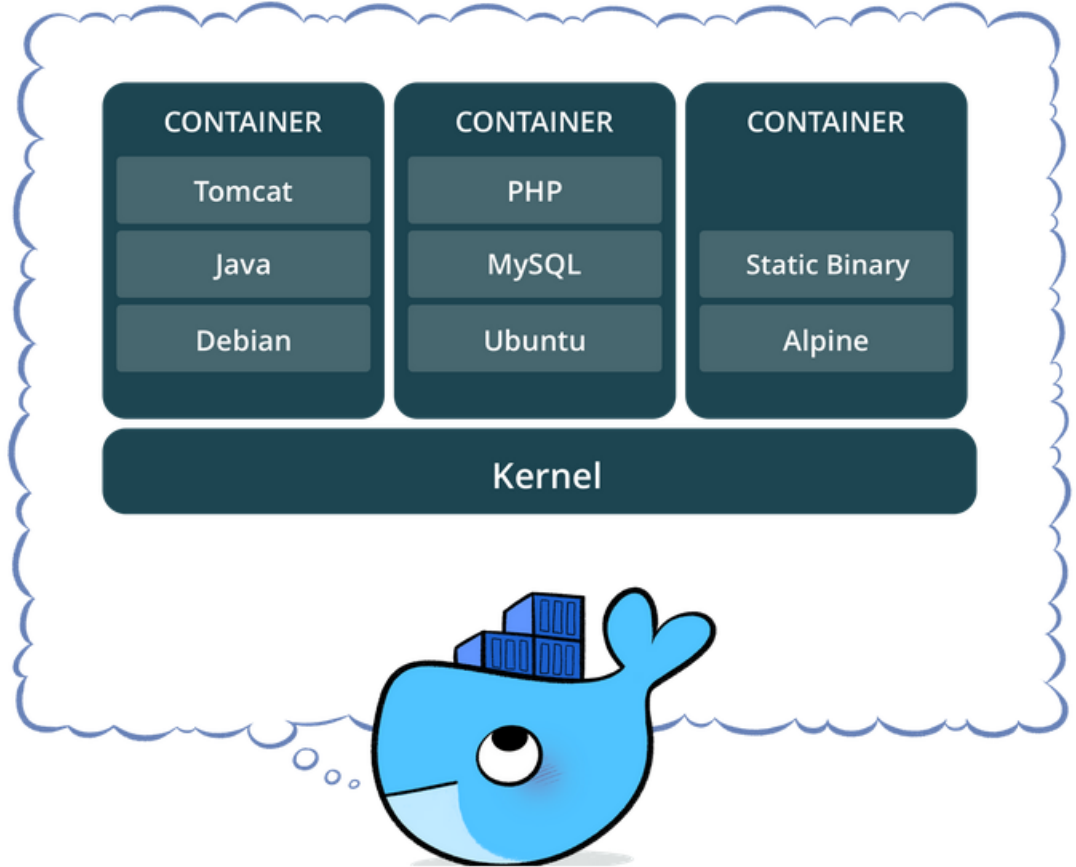


ICP Kubernetes/WebSphere/MQ/TXseries Client Technical Professional
HGRANGE@fr.ibm.com

Containers ou Conteneurs

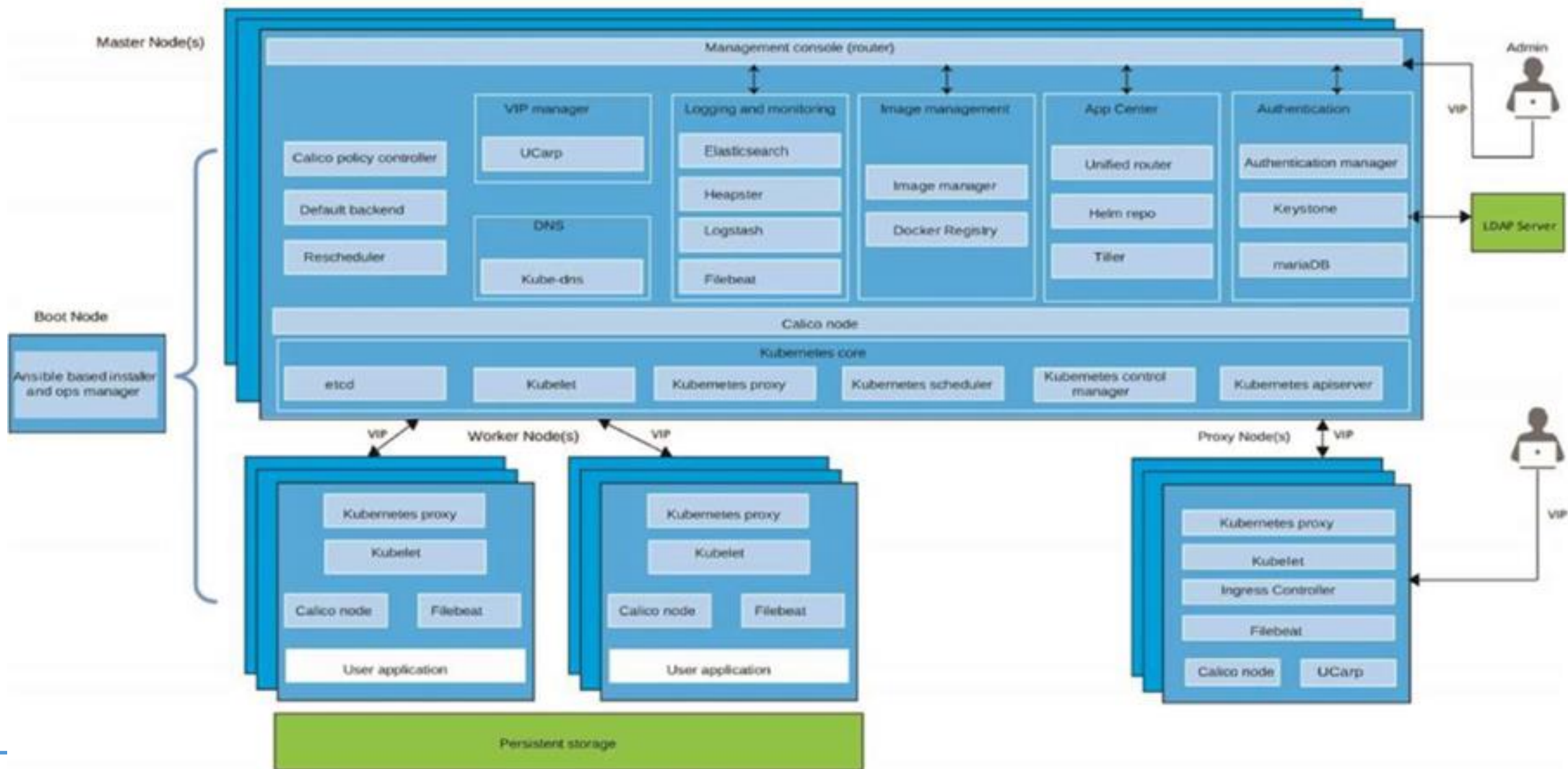
Package software into standardized units for development, shipment and deployment

A container image is a lightweight, stand-alone, executable package of a piece of software that includes everything needed to run it: code, runtime, system tools, system libraries, settings. Available for both Linux and Windows based apps, containerized software will always run the same, regardless of the environment. Containers isolate software from its surroundings, for example differences between development and staging environments and help reduce conflicts between teams running different software on the same infrastructure.



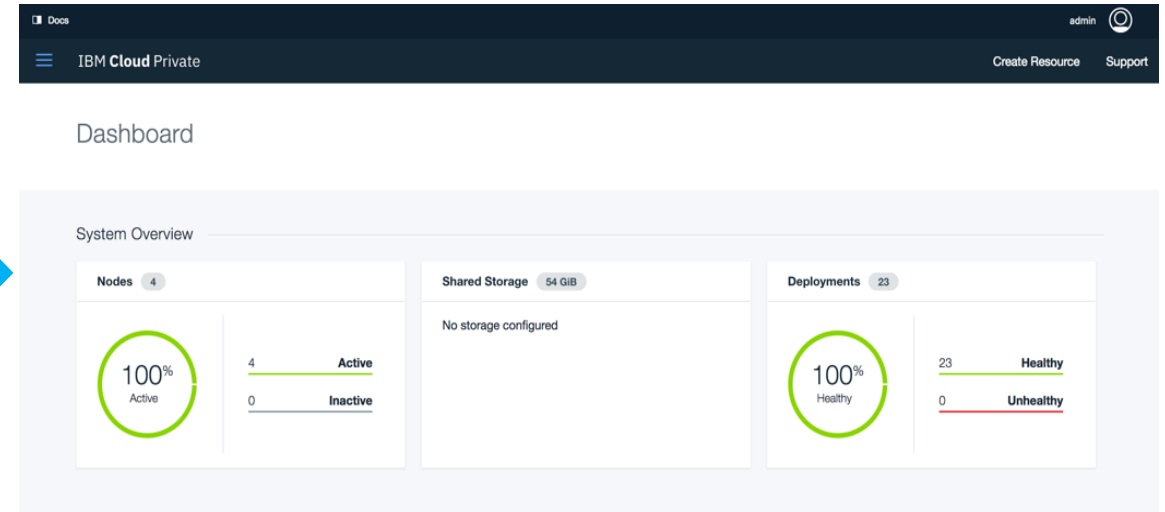
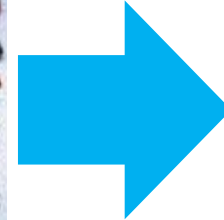
Source <https://www.docker.com/what-container>

Architecture (K8S)



Experience from clients drove IBM Cloud private design

Lessons Learnt:



Time to Value Matters: Clients want to Operate an Orchestrated Container Cloud, NOT Assemble One



+

IBM Value-add for Enterprises



IBM Cloud private

IBM Cloud Private



IBM Middleware, Data, Analytics and Developer Services

Cloud enabled middleware, messaging, databases, analytics, and cognitive services

IBM
WebSphere



Core Operational Services

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



Kubernetes-based Container Platform

Industry leading container orchestration platform

Cloud Foundry

For prescribed app development & deployment



CLOUDFOUNDRY

Runs on existing IaaS:

vmware



Power
Systems



System Z



IBM
Spectrum

CMS

Third Party alliances:

Dell

Cisco

NetApp

Lenovo

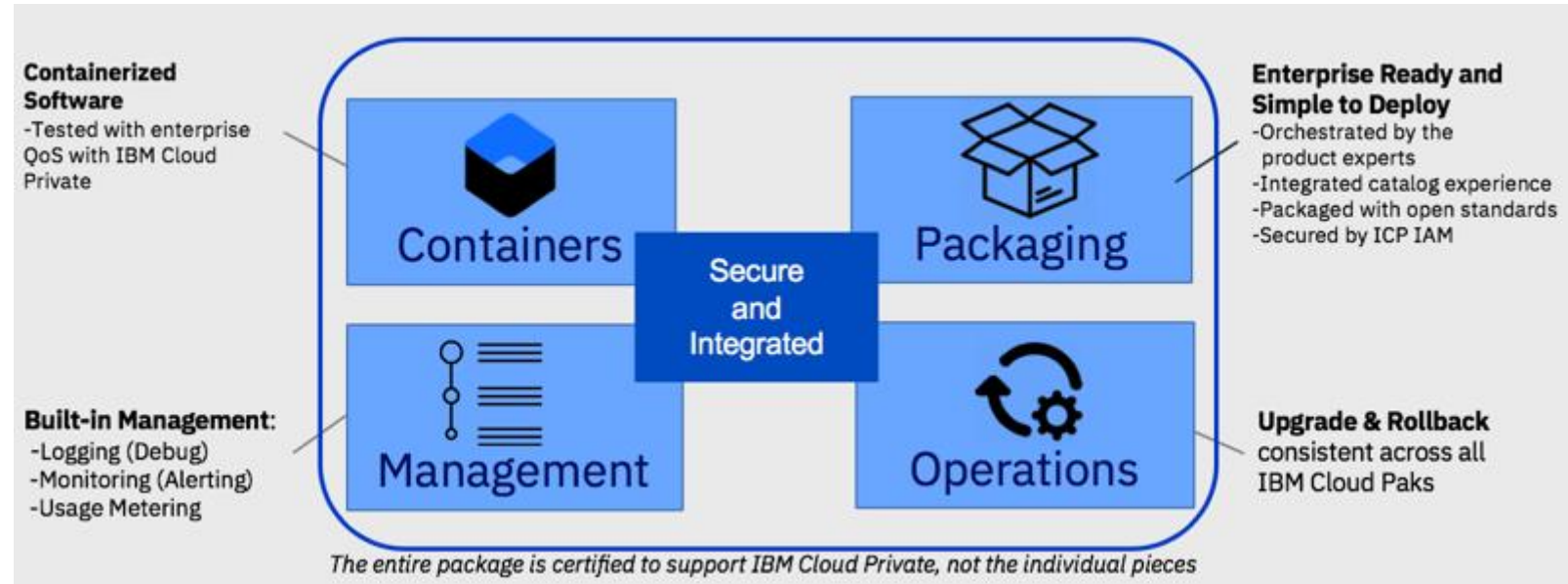
Canonical ...

Introducing IBM Cloud Paks on IBM Cloud Private to address enterprise client needs

Providing containers is not enough for the Enterprise.




IBM Cloud Paks on ICP:

- ✓ Provide enterprise capabilities for deployment, lifecycle management, and production use cases
- ✓ Unlock the value of IBM Cloud Private, out-of-the-box integration with core operational services
- ✓ Accelerate Time to Production for Enterprise client use cases



Certified IBM Cloud Paks are the next step in our container content strategy and further differentiate us from the competition

IBM Support on container delivery options

	 Ad hoc	 IBM Provided containers	 Certified IBM Cloud Paks on IBM Cloud Private
Deployment/Orchestration (Helm Chart)	☐	☐ Not provided	☑ Supported by IBM
IBM Software (core product functionality)	☑ Supported	☑ Supported	☑ Supported by IBM
Base OS container image	☐	☑ Supported	☑ Supported by IBM
Platform Services (logging, monitoring, etc)	☐	☐	☑ Supported by IBM
Cloud Platform (Kubernetes+)	☐	☐	☑ Supported by IBM
Operating System & Hypervisor	☐	☐	☑ Supported by IBM for Linux on Power and Z Supported by RH when running certified content

ibm-mqadvanced-server-prod V 2.2.0

Overview

Configuration



IBM MQ queue manager

local-charts

[Licenses](#) | [Release Notes](#) | [Qualification](#)

CLOUD PAK VERSION

2.2.0

DETAILS & LINKS

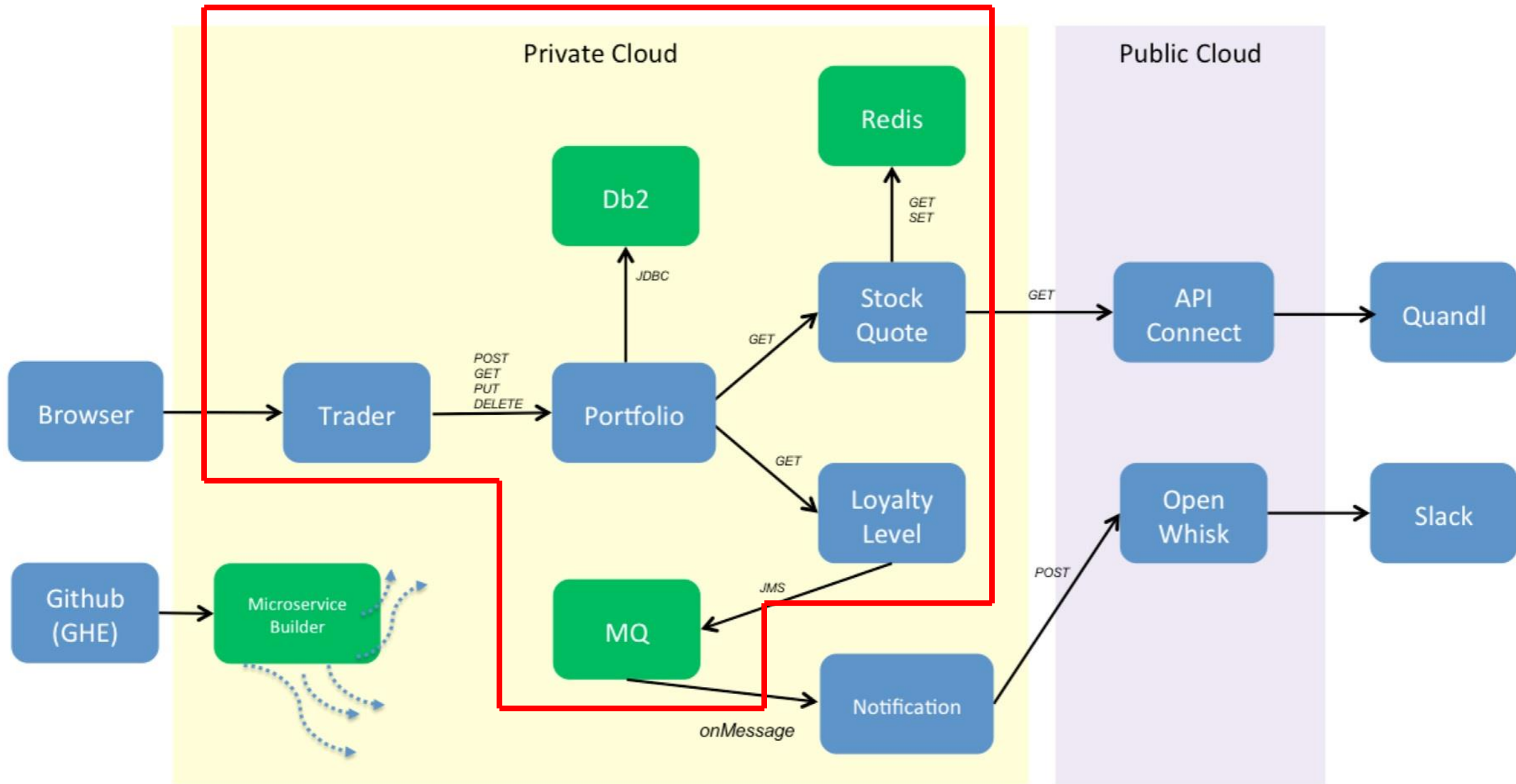
IBM MQ Advanced

Introduction

This chart deploys a single IBM® MQ version 9.1.1 Advanced server (Queue Manager). IBM MQ is messaging middleware that simplifies and accelerates the integration of diverse applications and business data across multiple platforms. It uses message queues to facilitate the exchanges of information and offers a single messaging solution for cloud, mobile, Internet of Things (IoT) and on-premises environments.

Configure

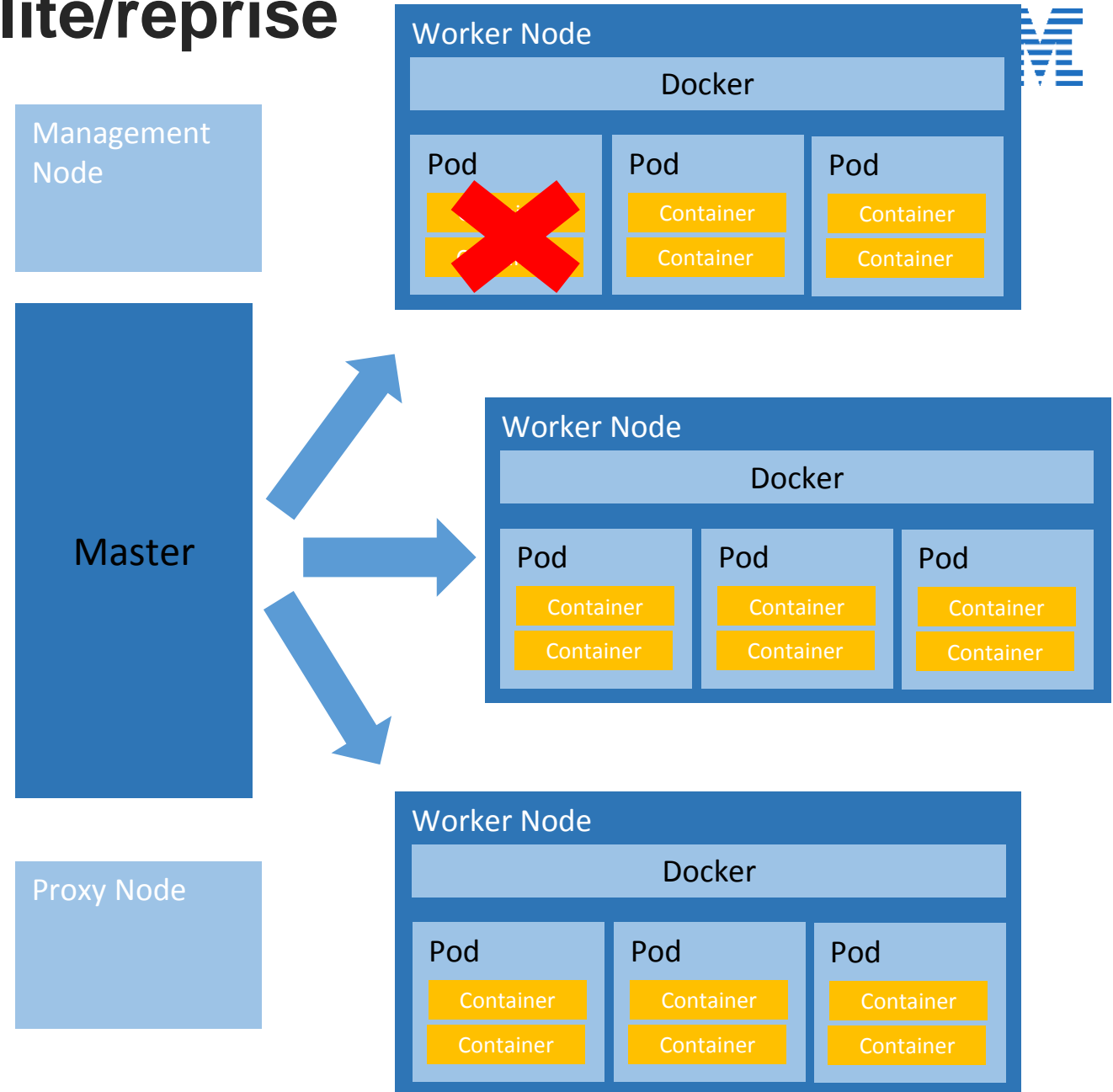
StockTrader Application Architecture



3 niveaux de Haute disponibilité/reprise

Au niveau du POD (containers)

- Redémarrage automatique du pod



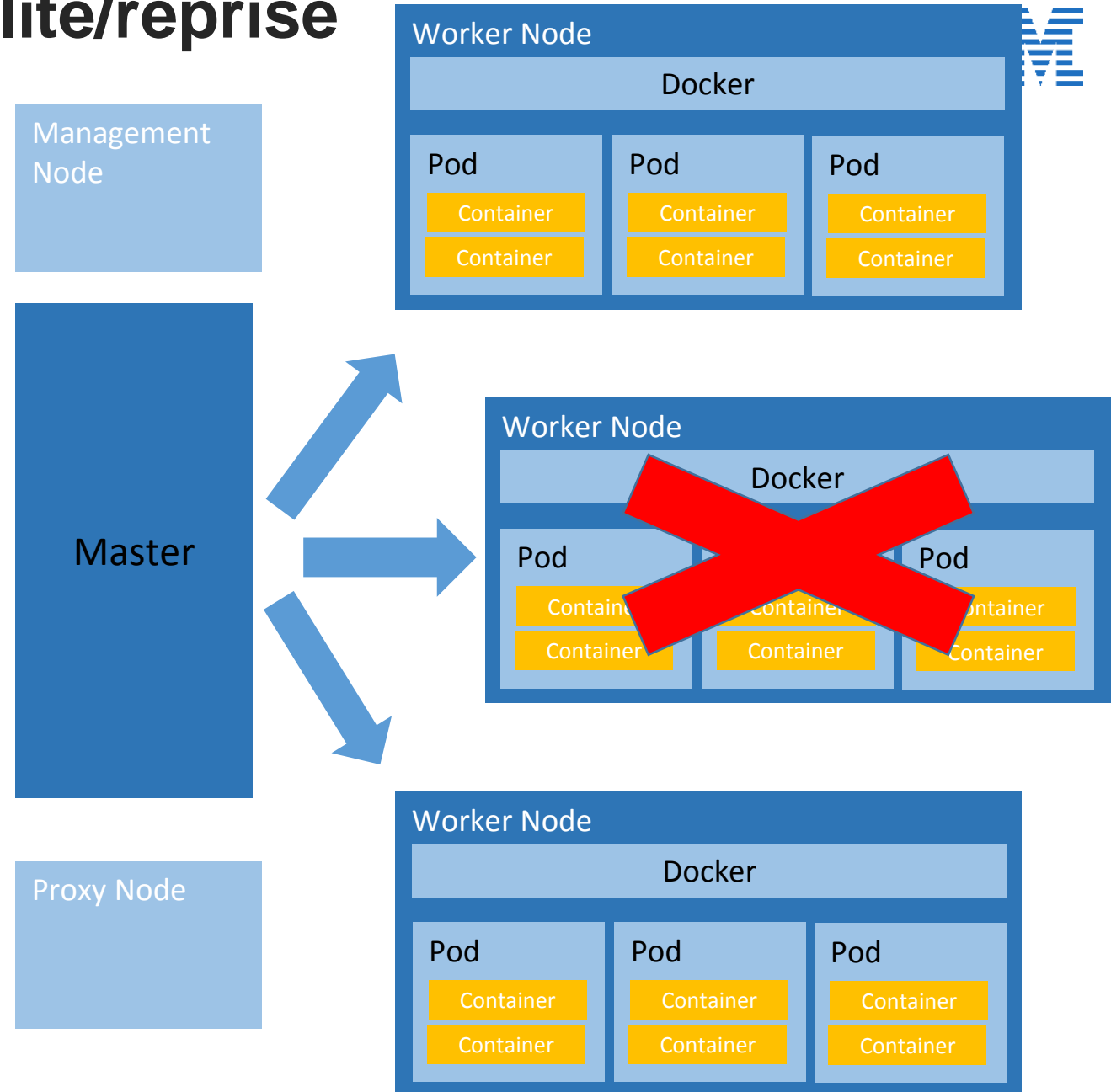
3 niveaux de Haute disponibilité/reprise

Au niveau du POD (containers)

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Au niveau du nœud worker

- Redémarrage de tous les pods du nœud sur un autre nœud du cluster K8S



3 niveaux de Haute disponibilité/reprise

Au niveau du POD (containers)

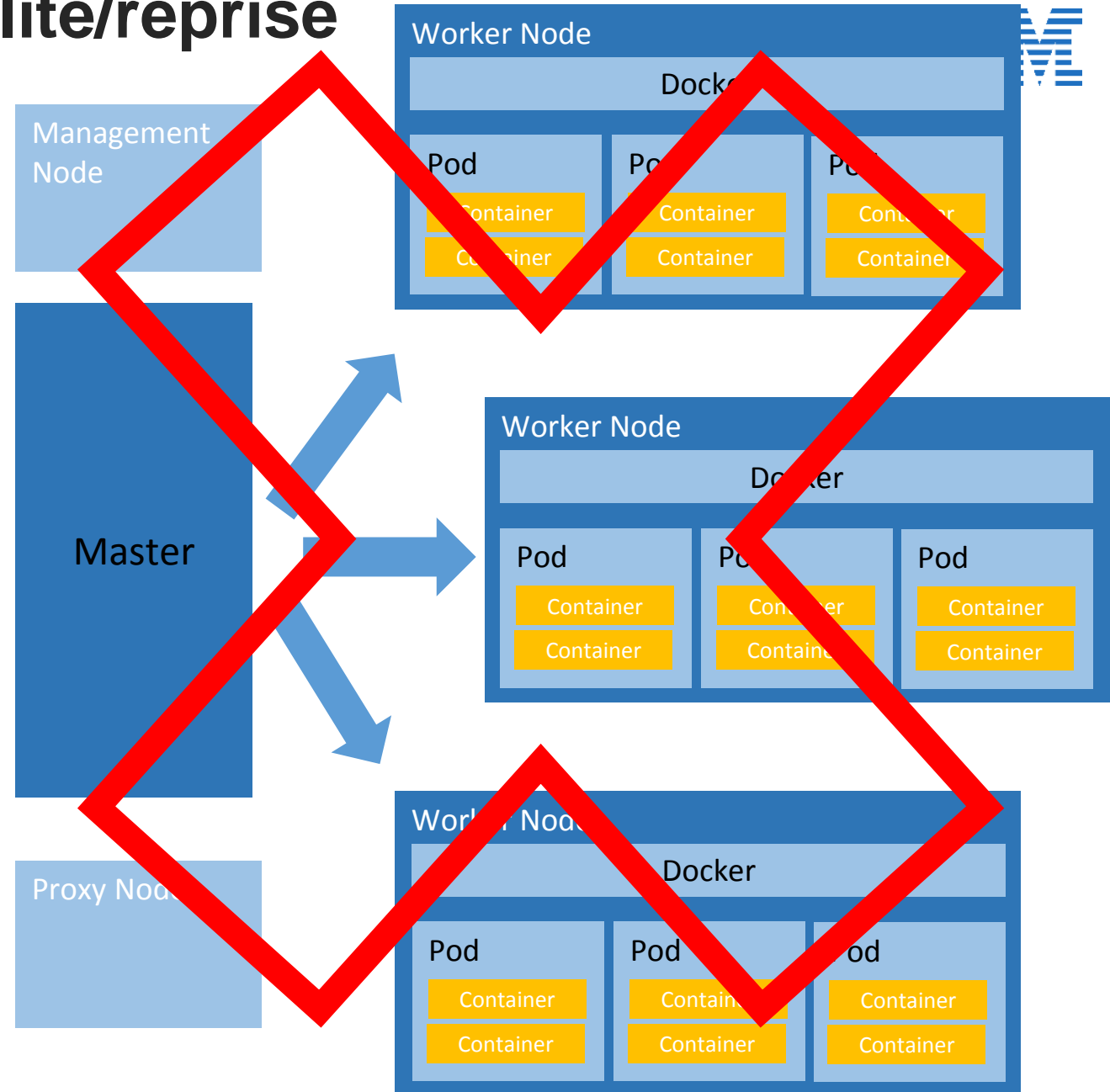
- Redémarrage automatique du pod

Au niveau du nœud worker

- Redémarrage de tous les pods du nœud sur un autre nœud du cluster K8S

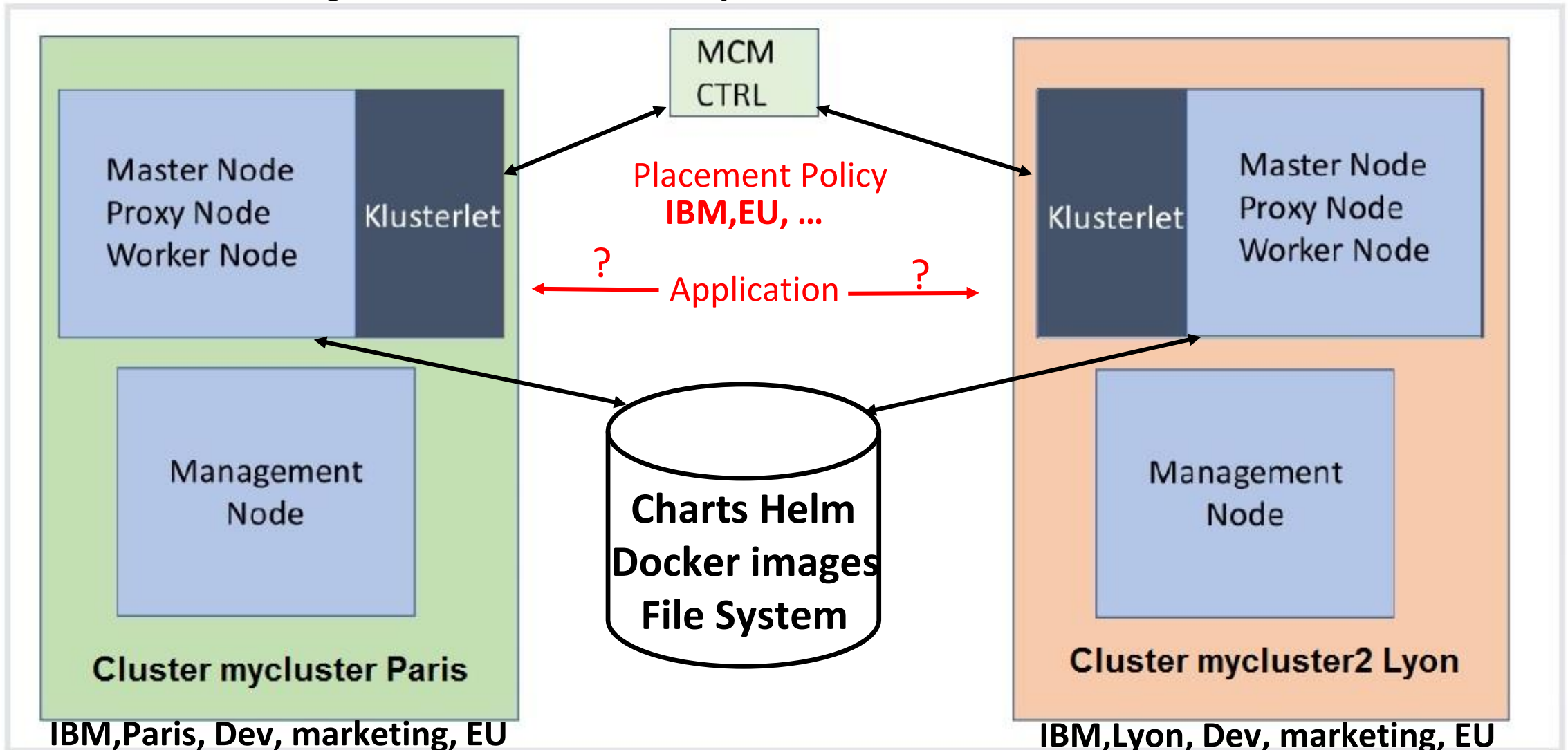
Au niveau du cluster

- Transfert des workloads sur un autre cluster K8S



Multi Cloud Manager :

Centralized Management, Disaster Recovery between IBM Cloud Private K8S Clusters



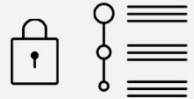
A single Control Plane for Multiple Clouds: IBM Multi Cloud Manager

Cloud Native development everywhere

IBM Middleware, Data, Analytics and Developer Services



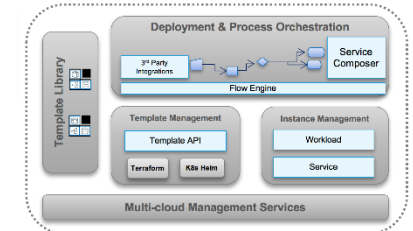
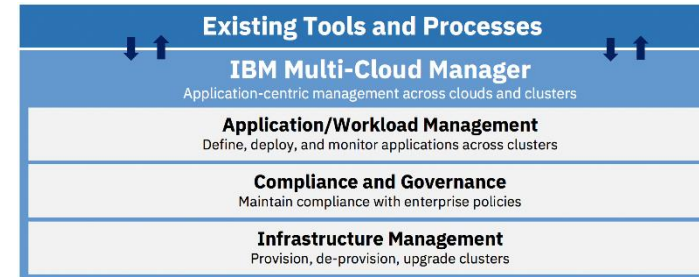
Core Operational Services



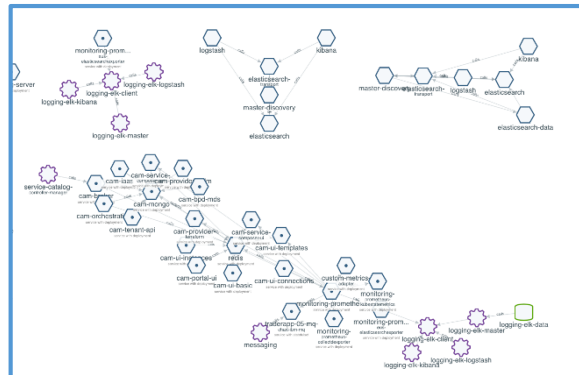
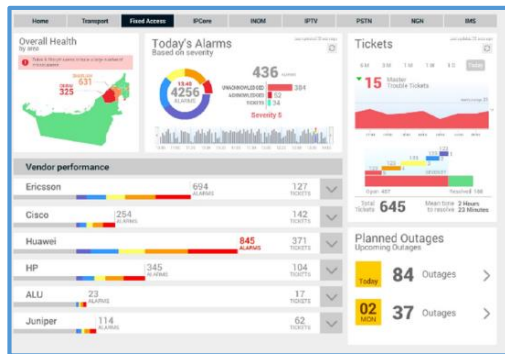
Kubernetes Container Platform



Multi Cloud Deployment



Multi Cloud Monitoring



Multi Cloud Management



- 1 Summary and Drill-Down Views of Actual Costs vs. Planned Budgets – Current Large Data Sets
- 2 Critical Policy Deviations and Projected Issues driving cost and asset performance
- 3 Current Information view with regard to total Hybrid Cloud Costs, Assets and Policy Compliance
- 4 Notifications, Alarms and Task assignment
- 5 Public, Private and Traditional Asset Locations at a glance



IBM Cloud

Demonstration

