Red Hat Summit

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# OpenShift e la modernizzazione delle applicazioni

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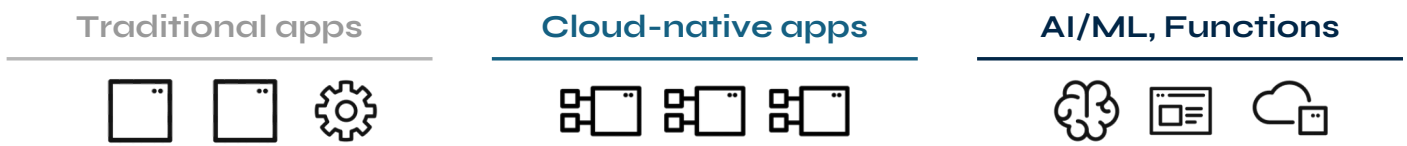
gruppo VEM | Red Hat

# Red Hat OpenShift

**Red Hat OpenShift** is an enterprise-ready, hybrid-cloud **application platform** built on Kubernetes for developing, deploying, and managing containerized applications.



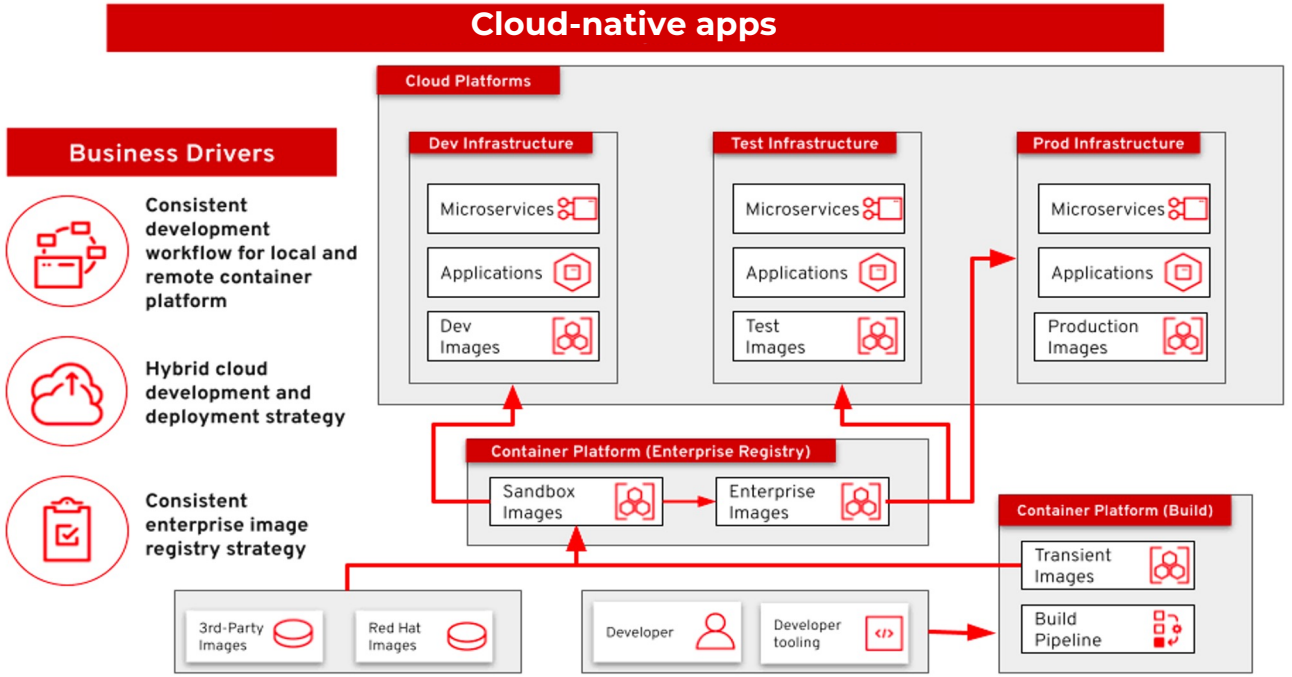

Communities of Innovation | Ecosystems of Solutions

Red Hat OpenShift

Secure & Automated Infrastructure and Operations

# Cloud Native Apps

**Cloud-native applications** are a collection of small, independent, and loosely coupled services. They are designed to deliver well-recognized business value, like the ability to rapidly incorporate user feedback for continuous improvement. In short, cloud-native app development is a way to speed up how you build new applications, optimize existing ones, and connect them all.



# Components of Container Platform

Applications need a trusted platform everywhere they need to run.

## Linux Host OS

Multi-tenant Security
Performance
Stability & Reliability

## Kubernetes Infrastructure

Version & Update Lifecycle
Cluster Configuration
Associated Infrastructure

## Container Content

Vulnerabilities
Maintenance & Updates
Provenance & Support

## Hybrid Multi Cloud

Datacenter
Public Clouds Edge

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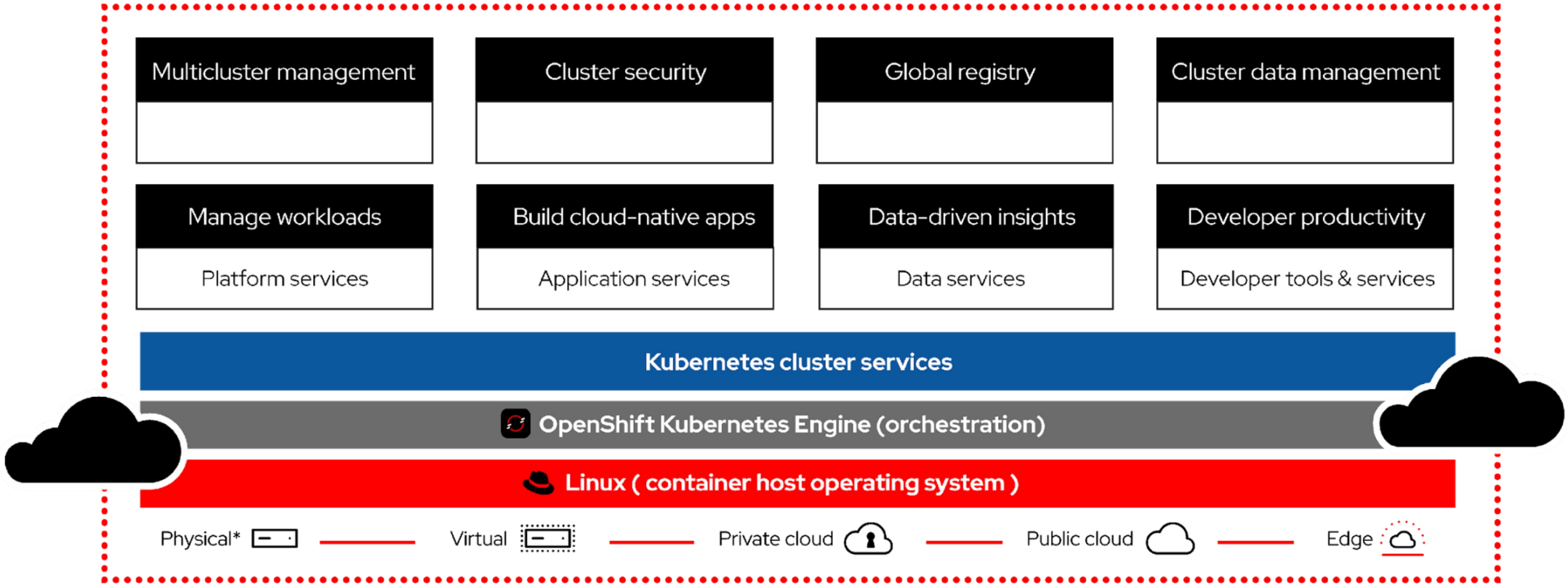
RED HAT® OPENSHIFT Container Platform



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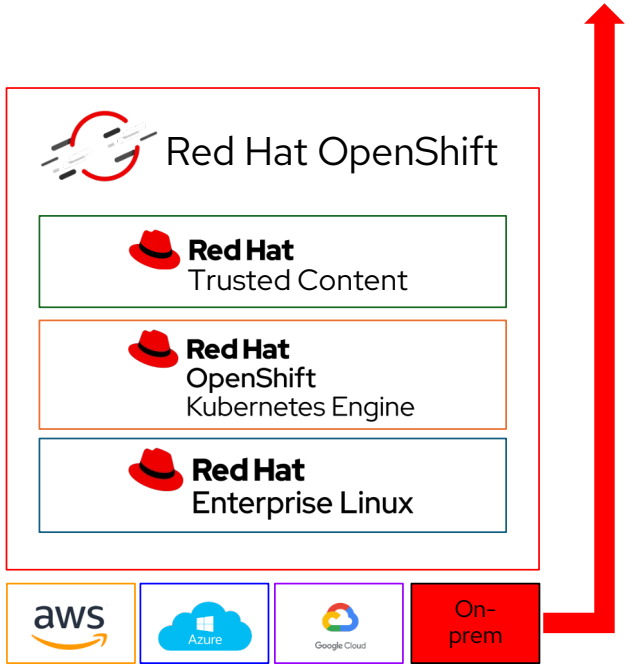
OpenShift Use Case

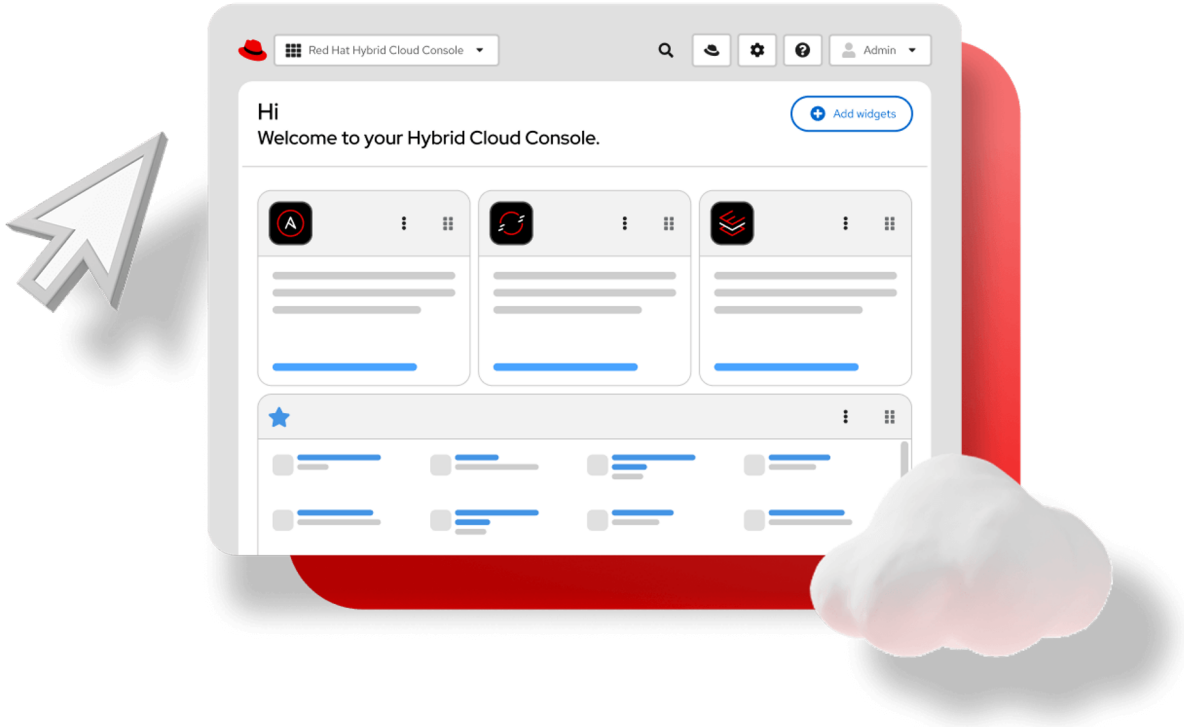
# OpenShift: Use case

The project involved the design, installation, and commissioning of a self-managed Red Hat OpenShift cluster, deployed on-premises at the customer's site, as a centralized platform for managing development, test, and production environments for the company's medical applications.



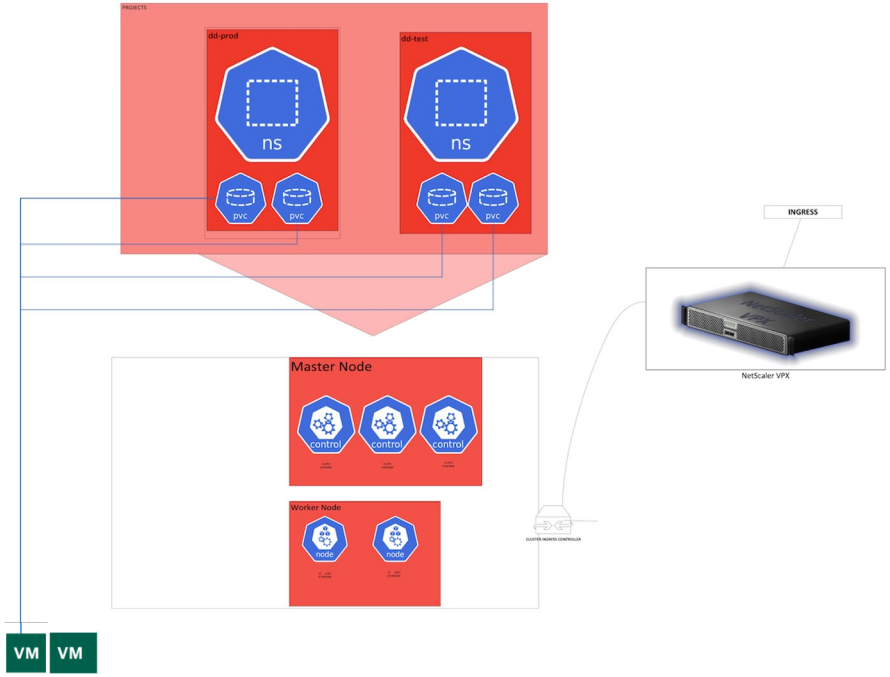
# OpenShift: solution

The cluster installation was carried out through the Hybrid Cloud Console using the Assisted Installer, a simplified and interactive web-based method that enabled the deployment of the cluster without the need for dedicated bootstrap nodes, reducing time and complexity during the initial setup phase.



# OpenShift: solution

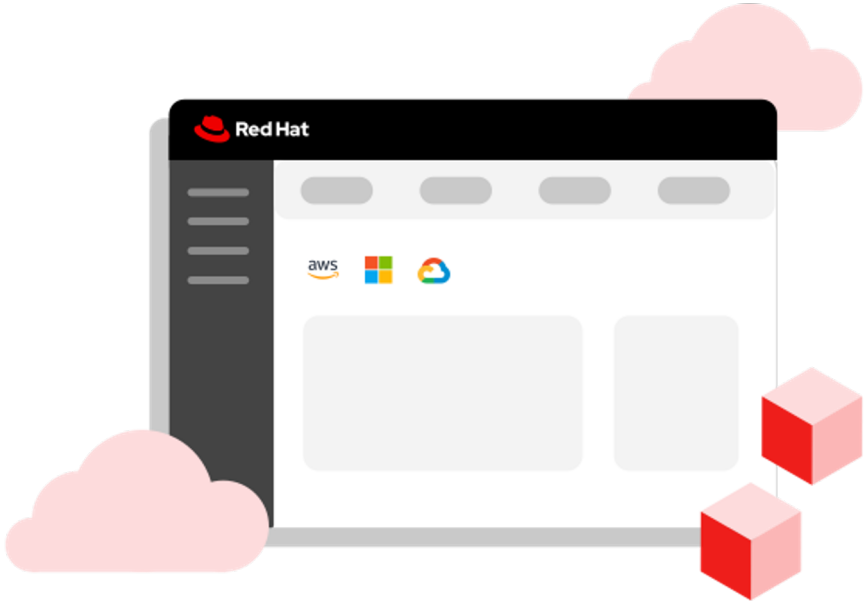
- 3 Master Nodes
- 2 Workers Nodes
- 1 Load Balancer
- Storage per volume RWX



# OpenShift

This fully integrated infrastructure, aligned with security and compliance best practices in the healthcare sector, provides the customer with a modern and flexible platform for managing and evolving its critical applications.

The adoption of OpenShift, combined with the DevOps paradigm and a microservices architecture, enables efficient application lifecycle management, fostering continuous innovation and operational control.



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