Red Hat
Advanced Cluster Management
for Kubernetes

Industry trend: Multicloud architectures

An IDC survey of 200 U.S.-based US$1B companies actively using two or more infrastructure clouds for production applications found:

93%
Using multiple infrastructure clouds

81%
Using multiple public clouds and one or more private / dedicated clouds

IDC Multicloud Management Survey, 2019: Special Study, Doc # US45020919, April 2019

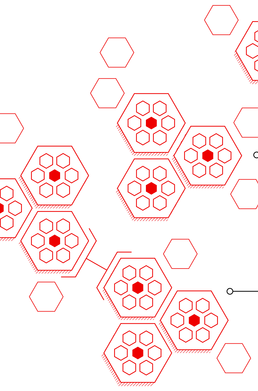
The move to multicluster

In an effort to modernize applications, organizations are deploying multiple clusters across multicloud and hybrid cloud environments.

Organizations choose multiple clusters to:

- **Increase** application availability.
- **Reduce** latency.
- **Meet** industry standards.
- **Comply** with geopolitical data residency guidelines.
- **Improve** disaster recovery.
- **Facilitate** edge deployments.

However, multicluster management presents many challenges



Single cluster

- Complicated cluster provisioning
- Configuration drift
- Manual, error-prone application deployment

Multiple clusters

- Inconsistent cluster provisioning
- Lack of policy and governance across development, testing, and production
- Difficulty finding and modifying Kubernetes resources across the management domain

Enterprise distributed clusters

- Lack of visibility across clusters for efficient DevOps
- Inability to deploy and distribute applications at scale
- Difficulty gathering compliance evidence for audits

Red Hat Advanced Cluster Management for Kubernetes can help

Red Hat® Advanced Cluster Management for Kubernetes provides end-to-end visibility and controls to manage the life cycle of your clusters and applications, along with security and compliance for your entire Kubernetes domain—across multiple datacenters and public clouds.

It provides a single view to manage your Kubernetes clusters—from Red Hat OpenShift® deployed on-premise, on bare metal, and in public clouds, as well as clusters from public cloud providers like Amazon Web Services (AWS), Microsoft Azure, Google, and IBM.

Use cases

Unified multicluster life-cycle management

Create, update, and destroy Kubernetes clusters reliably, consistently, and at scale.

Policy-based governance, risk, and compliance

Use policies to automatically configure and maintain consistency of security controls based on industry standards.

Advanced application life-cycle management

Apply open standards and deploy applications using placement policies that are integrated into existing continuous integration / continuous delivery (CI/CD) pipelines and governance controls.

Benefits

- **Accelerate development to production** with self-service provisioning.
- **Free up IT departments** with self-service cluster deployment that automatically delivers applications.
- **Increase application availability** with the ability to deploy legacy and cloud-native applications quickly across distributed clusters.
- **Ease security compliance** with centralized policy enforcement across clusters.
- **Reduce operational costs** with a unified management interface.

To learn more about Red Hat Advanced Cluster Management for Kubernetes, visit redhat.com/clustermanagement.

Learn more

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