Industry trend: multicloud architectures
An IDC survey of 2019 shows that 93% of U.S. $1B companies actually using two or more cloud service providers for production applications found:

- 93% Using multiple infrastructure clouds
- 81% Using multiple public clouds and one or more private / dedicated clouds

However, multicluster management presents many challenges:

- Single cluster
  - Inconsistent cluster provisioning
  - Configuration drift
  - Manual, error-prone application deployment

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

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

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.

Use cases

**Microsoft Azure**

- Apply open standards and deploy applications using placement policies that are integrated into existing CI/CD pipelines.
- Get an overview of multicluster health and optimization with out-of-the-box multicluster dashboards.
- Troubleshoot faster by easily sorting and filtering with dynamic search and visual terminal capabilities.

**Red Hat OpenShift**

- Use policies to automatically configure and maintain consistency of security controls based on industry standards.
- Use assembles of multicluster data feeds that automatically deliver reports to leaders and managers.
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Benefits

- Accelerated deployment to production
- Self-service application deployment
- Increased application availability
- Security compliance management

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