Red Hat

3 factors for migrating from legacy Cloud Foundry to Kubernetes

After years of investment and effort, companies running a legacy Cloud Foundry platform are now experiencing limitations. To remain effective, legacy customers need a hybrid cloud platform built on Kubernetes to support their existing, stateful, and new containerized cloud-native applications.

Customers realize the need to update their legacy Cloud Foundry containerized applications to a Kubernetes-based platform, but deciding how to move forward can be confusing.

These three factors can be helpful when considering options and strategies for migrating Cloud Foundry applications to Kubernetes.

1   Benefits of migrating

Cloud Foundry customers experienced the initial benefits of microservices applications on a Cloud Foundry platform using BOSH. However, customers must now address the challenges of a legacy Cloud Foundry platform, such as:

▶ Encountering sizable refactoring costs of migrating a traditional workload.

▶ Requiring a heavy footprint to run Cloud Foundry in cloud and on-premise from a computing resource perspective.

▶ The inability to take advantage of the latest cloud-native technologies, like Istio, ArgoCD, and more, available through the Cloud Native Computing Foundation (CNCF).

2   Options for migrating

Legacy Cloud Foundry customers have few options for updating the applications that live on the legacy platform to Kubernetes. Customers can:

▶ Maintain their application platform and risk incurring increased costs for support without the benefits of modern features.

▶ Rehost applications to an intermediary state. Applications can remain integrated with Cloud Foundry application programming interfaces (APIs) but run on Kubernetes.

▶ Replatform and move their applications from Cloud Foundry to a cloud environment built on Kubernetes.

3 Why choose Red Hat for Kubernetes

The Red Hat® portfolio, including Red Hat OpenShift® and services, provides a complete enterprise hybrid cloud platform to build and run production workloads.

▸ Red Hat was one of the first companies to work on the Kubernetes project—even prior to launch. Since then, it has become the second-leading contributor to the Kubernetes upstream project and was one of the first to market with an enterprise Kubernetes platform.

▸ Red Hat products are open source, open standards products that support innovation. According to IDC Research, "With Red Hat OpenShift, DevOps and development teams increased the number of new applications and features delivered to their businesses by 44% and 196%, respectively."[1]

▸ Red Hat OpenShift delivers a variety of container technologies: multicloud, multicluster, serverless, service mesh, container-native virtualization, and edge.

▸ The Red Hat portfolio addresses the operations and development needs for modern and cloud-native applications.

▸ Red Hat OpenShift, deployed on Kubernetes, is an established approach to migrating from Cloud Foundry. A recent IDC study showed 29% faster application development life cycles with Red Hat OpenShift.[1]

For more on Red Hat for Kubernetes

See how Red Hat's portfolio can help your organization. Visit Why choose Red Hat for Kubernetes for more detail.

For more on migrating to Red Hat OpenShift

Read Switch from Cloud Foundry to Red Hat OpenShift to discover more about migration approaches used by Red Hat Consulting experts.

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1 *IDC White Paper, sponsored by Red Hat. "The Business Value of Red Hat OpenShift." Doc. #US47539121, March 2021.*

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Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.

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