


Kubernetes Platform Accelerator Solution Offering



Solution Overview

Streamlining the process of bootstrapping Kubernetes (K8s) clusters in hyperscale public clouds can be a significant challenge. Onboarding containerized applications, ensuring security, governance and compliance, while promoting developer innovation and agility, can further compound the complexity. Additionally, organizations may struggle to enforce rules and regulations consistently across their Kubernetes environments and workloads at scale. Furthermore, the lack of expert knowledge and technical proficiency in managing Kubernetes can hinder the successful implementation of a scalable solution in the cloud.



75%

Faster deployments with self-sufficient, autonomous teams

Amdocs Kubernetes Platform Accelerator is opinionated, well-architected platform that accelerates the onboarding of containerized applications and enhances developer innovation. It ensures security, governance, and compliance across Kubernetes environments and workloads, all while leveraging the power and scalability of cloud infrastructure. With a streamlined CI/CD approach, our solution provides code, guidance, and expertise to expedite the deployment process and drive continuous delivery of your applications.

Motivations

Challenging Kubernetes cluster bootstrapping

Need to get up to speed quickly and maximize benefits with expert guidance

Desire to shift application ownership left

Need to let teams own their container workloads and speed up time to market with less friction

Insufficient platform and containers oversight

Need to overcome low visibility into Kubernetes environments and save valuable monitoring setup time

Inefficient Kubernetes operating model

Need to ensure a smooth and optimized workflow for operating Kubernetes in the cloud at scale



Kubernetes customization areas

Regardless of where you are on your Kubernetes journey, our flexible solution provides you with the expertise you need.

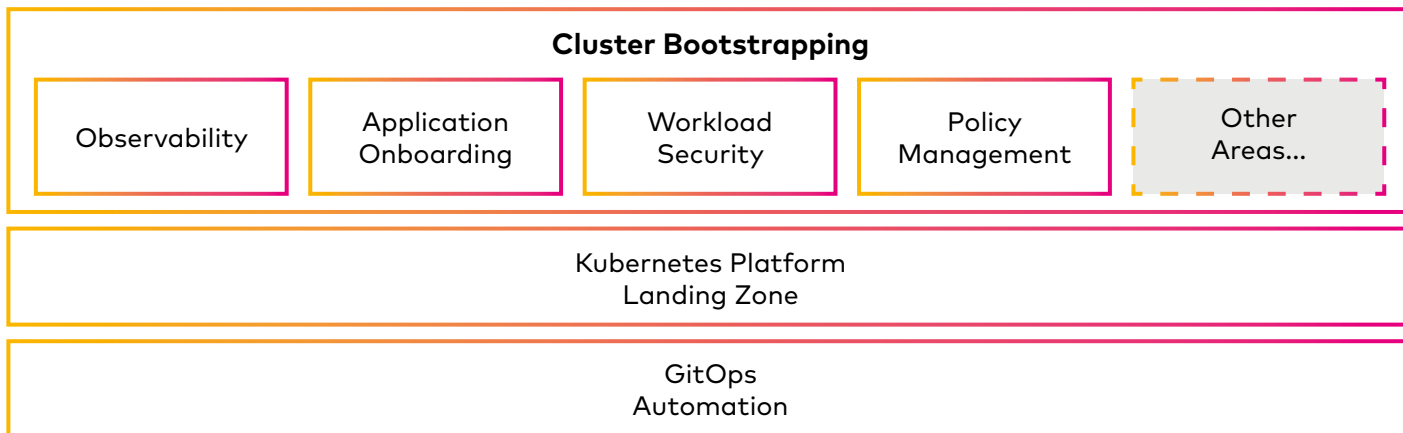


Figure 1 – Areas of platform customization for Kubernetes

Why Amdocs, Why Now?

Amdocs' unmatched understanding of the intricacies and complexities of Kubernetes and cloud technologies sets us apart. Through successful implementations, we have honed our expertise, resulting in a proven track record of navigating the challenges and intricacies of this powerful platform. The outcome? Optimal platform performance, scalability and reliability at the enterprise level.

By partnering with us, you gain access to this wealth of knowledge, accelerating your Kubernetes journey and maximizing the potential of your container applications and cloud infrastructure. With our trusted and experienced team by your side, you'll be well-positioned to gain a competitive edge in the ever-evolving landscape of containerization and microservices.

Customer Benefits

Kubernetes knowledge and expertise

Trust and leverage our expertise in Kubernetes and cloud to empower your business and staff

Opinionated and well-architected platform

Enjoy developer innovation and agility with our opinionated, streamlined Kubernetes platform

Compliance, security and governance

Enforce standards across your K8s environments with our extensible policy-based design

Accelerate your application onboarding

Increase productivity with our code-driven, expert-guided approach

Case Study

Tier-1 North American Service Provider

Motivation

This Tier-1 North American service provider recognized the need for business modernization through Kubernetes and microservices. Their primary objective was to establish a robust Kubernetes-based architecture that could seamlessly support the consolidation of recently acquired businesses. Additionally, they aimed to enhance, simplify and rationalize their enterprise solutions to effectively cater to the needs of over 30 million customers.

Solution

Amdocs experts delivered on several fronts including:

Architecture design and development: delivered fit-for-purpose, compliant-by-design Kubernetes-based platform with best practices for protection and observability at scale

Migration strategy establishment: partnered with product, engineering and operations teams to help them understand, prioritize and initiate the feature set migration program over a period of two years

Micro-services migration: successfully helped migrate over 200 microservices into new Kubernetes platform with hundreds of releases

Application reconfiguration: reconfigured applications to use ConfigMaps, secrets and service mesh using best-practice approach for Kubernetes development

Automation pipeline redesign: designed and implemented new, advanced and streamlined CI/CD process, leveraging Helm charts for a better Kubernetes artefact packaging and developer experience

Impact

75% faster micro-services deployment with autonomous, self-sufficient application development teams

425% more releases per year with consistent delivery of innovative products, while ensuring peace of mind and operational efficiency

60% reduction in compute consumption with fewer nodes and an auto-scalable and elastic architecture

Elimination of environment drift with well-architected, operationally excellent, code-driven platform and applications management solution

0% service downtime with expert-led planning and execution, ensuring seamless switch-over and uninterrupted business operations

0% release rollback with simple, team-driven GitOps and CI/CD process applied across the board