



Kubernetes IDP Quick Start by Fairwinds

Developer-Centric Platform on AWS EKS for Cloud-Native Application Delivery

The Kubernetes IDP Quick Start by Fairwinds is a service that provides platform engineering teams with a pre-built, customizable Internal Developer Platform (IDP) on Amazon EKS.

By integrating Backstage, ACK, ArgoCD, Argo Rollouts, Argo Workflows, and KubeVela, teams can streamline infrastructure provisioning, application deployment, and lifecycle management—all delivered through GitOps and declarative workflows.

VALUE DELIVERED

The Kubernetes IDP Quick Start by Fairwinds combines the power of open source with the reliability of AWS EKS.

✓ Faster Time to Value

Deploy a production-ready IDP in weeks.

✓ AWS-Native

Seamless integration with AWS services and Kubernetes workloads.

✓ Open Source Flexibility

Avoid vendor lock-in while adopting best-in-class tools.

✓ Future-Proof Investment

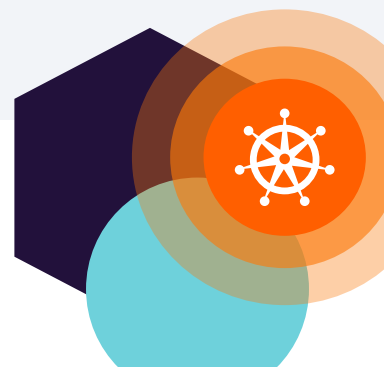
Backed by AWS and a thriving open source ecosystem.

Key Capabilities

- Self-Service AWS Resource Provisioning through ACK CRDs in Backstage.
- GitOps-Driven Deployments with ArgoCD syncing repos to EKS.
- Declarative Workflows using KubeVela traits for scaling and rollouts.
- Unified Developer Experience with Backstage as the front-end.
- IDP Secure and Governance
 - IAM Integration with AWS roles.
 - RBAC and Namespace Isolation for multi-team environments.
 - Policy Enforcement via KubeVela traits and Kubernetes RBAC.
 - Git-Based Audit Trails for full history of deployments and infrastructure changes.

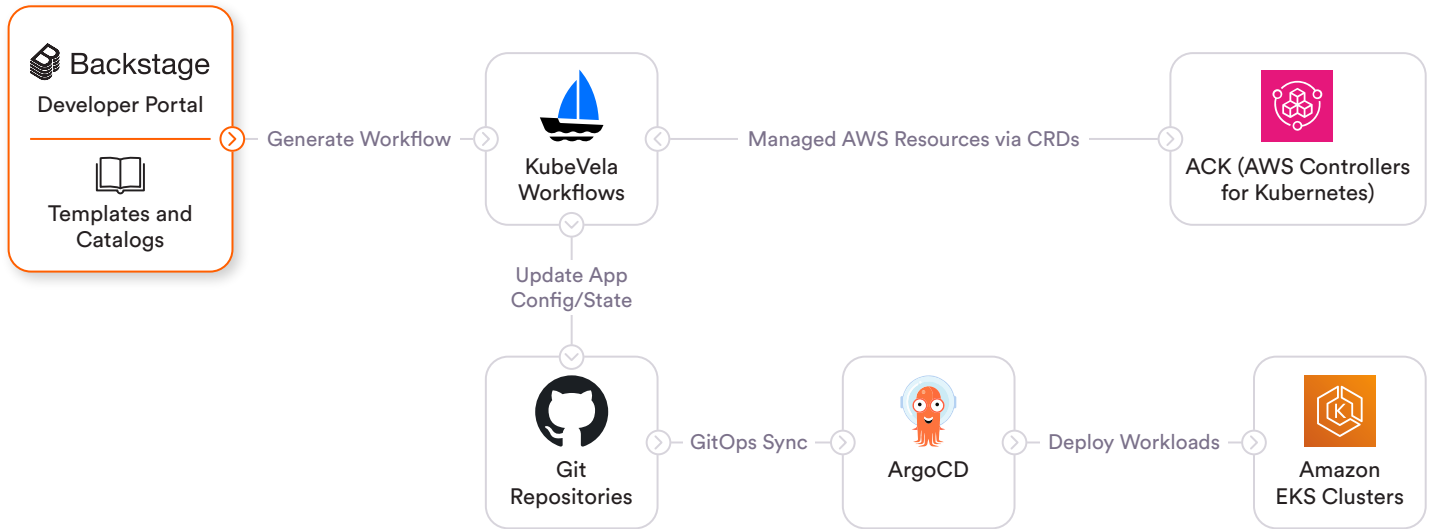
Benefits for EKS Users

- **Increased Developer Speed:** Enable self-service deployments.
- **Reduced Overhead and Training:** Abstracted complexity lowers ramp-up.
- **Tailored to Your Needs:** Fully customizable workflows.
- **Freedom from Lock-In:** 100% open source foundation.
- **Accelerated Deployment:** Pre-integrated components shorten timelines.
- **Simplified Operations:** GitOps reduces operational burden.
- **Optimized for AWS:** Designed for EKS scalability and reliability.



ARCHITECTURE OVERVIEW

Your Fairwinds generated IDP architecture overview includes best in class open source tooling.



COMPONENT	ROLE IN THE SOLUTION
Backstage	Developer portal for catalogs, docs, and tools
ACK	Manage AWS services (RDS, S3, SQS) via Kubernetes CRDs
ArgoCD	GitOps-based continuous delivery
Argo Rollouts	Advanced blue-green and canary deployments
Argo Workflows	Automated pipelines and CI/CD on EKS
KubeVela	Application delivery control plane and workflows

WHY FAIRWINDS

Fairwinds has been managing Kubernetes for years, trusted by companies to run secure and reliable clusters at scale. With widely used open source projects and deep expertise on AWS EKS, Fairwinds helps teams simplify Kubernetes while accelerating developer productivity and maintaining governance.

Accelerate your Internal Developer Platform on EKS with Fairwinds.

WHERE TO USE KUBERNETES IDP QUICK START BY FAIRWINDS



Platform Engineering

Golden paths with reusable templates.



Multi-Environment Delivery

Consistent GitOps across dev, staging, prod.



Hybrid Infrastructure

Manage Kubernetes workloads and AWS services together.



DevOps Automation

Bake provisioning into CI/CD pipelines.



Progressive Delivery

Safer rollouts with canary and blue-green strategies.