

GitOps: ArgoCD and Support

Scale and Secure GitOps, Deploy Kubernetes
Apps Faster



CHALLENGES

As organizations scale Kubernetes adoption, managing deployments across multiple clusters becomes complex, error-prone, and hard to govern. Teams often rely on homegrown scripts or fragmented tools, leading to inconsistent deployments and security risks. Without centralized control, visibility is limited, and compliance becomes a challenge. Ops teams struggle to enforce best practices and secure configurations at scale, making it difficult to deliver software quickly and confidently.

GITOPS: ARGOCD AND SUPPORT

GitOps: Argo CD & Support enables automated, declarative, and secure Kubernetes deployments using enterprise-grade Argo CD. It allows teams to scale GitOps practices across multi-cluster and multi-cloud environments with centralized control and observability. With built-in support for SSO, RBAC, secret management, and progressive delivery strategies, this module ensures consistency, compliance, and speed in your release pipelines. OpsMx also provides full lifecycle support for managing and scaling Argo CD instances, integrating seamlessly with CNOE-recommended DevSecOps tools.



FEATURES

GitOps style deployment

- Deploy applications, infrastructure (ECS), and packages (Kustomize, HELM) declaratively using GitOps principles.
- Maintain a single source of truth with version-controlled, automated rollouts.

The screenshot shows the Argo CD web interface. The left sidebar contains navigation options: Applications, Settings, User Info, and Documentation. The main area displays a grid of application tiles. Each tile shows the application name, project, labels, status (e.g., Synced, OutOfSync, Degraded), repository URL, target, path, destination, and name. Action buttons for SYNC, refresh, and delete are visible for each application.

Multi-Cluster deployments

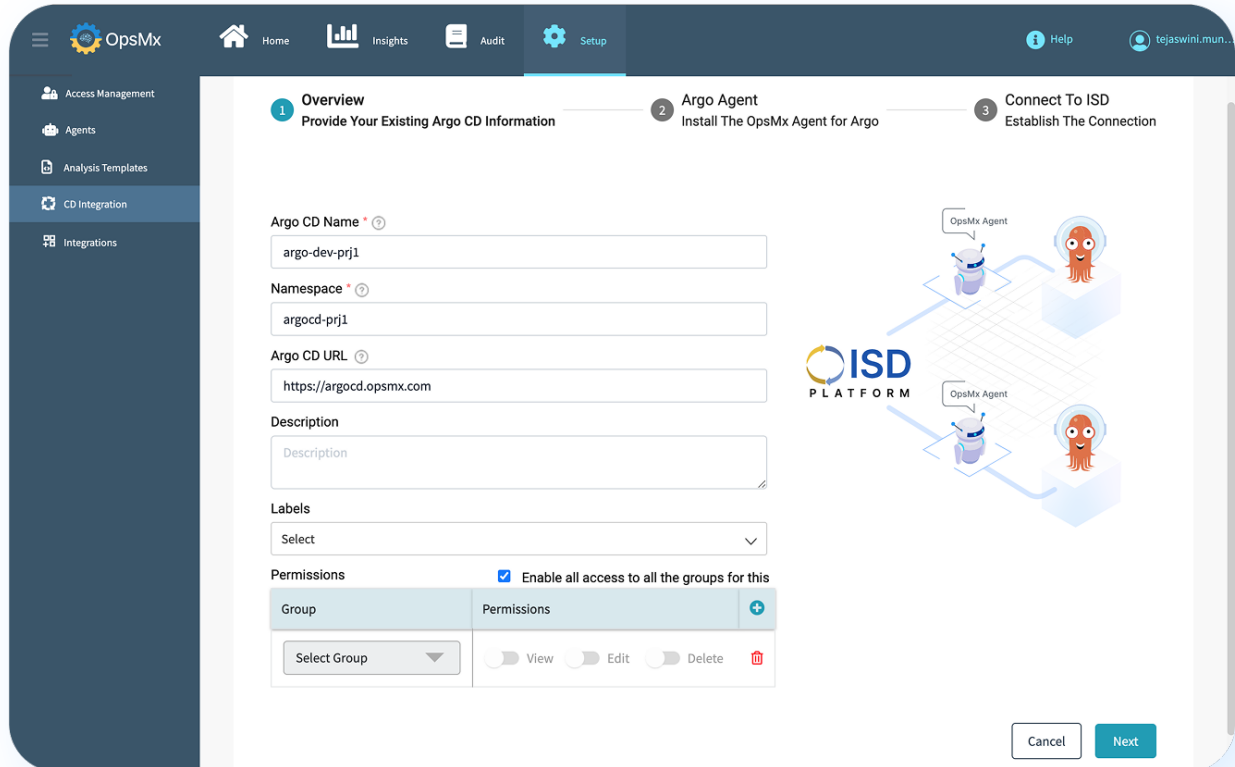
- Deploy from multiple sources to multiple target clusters with seamless configuration dependency management.
- Eliminate manual coordination between environments and scale Kubernetes deployments effortlessly.

The screenshot shows the Argo CD web interface in the Settings / Repositories section. It displays a table of connected repositories with columns for Type, Name, Repository URL, and Connection Status. The status column shows 'Successful' for most and 'Failed' for one.

TYPE	NAME	REPOSITORY	CONNECTION STATUS
git		https://github.com/OpsMx/tenents-process-argo-manife...	Successful
git		https://github.com/opsmx/argo-config-for-engg-r-and-d	Successful
helm	isd-argo	https://opsmx.github.io/enterprise-argo	Successful
git		https://github.com/argocon22Workshop/ArgoCDRollouts...	Successful
git		https://github.com/OpsMx/argocon-sample-apps.git	Failed
git		https://github.com/OpsMx/argodemo-sample-apps.git	Successful
git	opsmx-samples	https://github.com/opsmx/isd-sample-apps.git	Successful

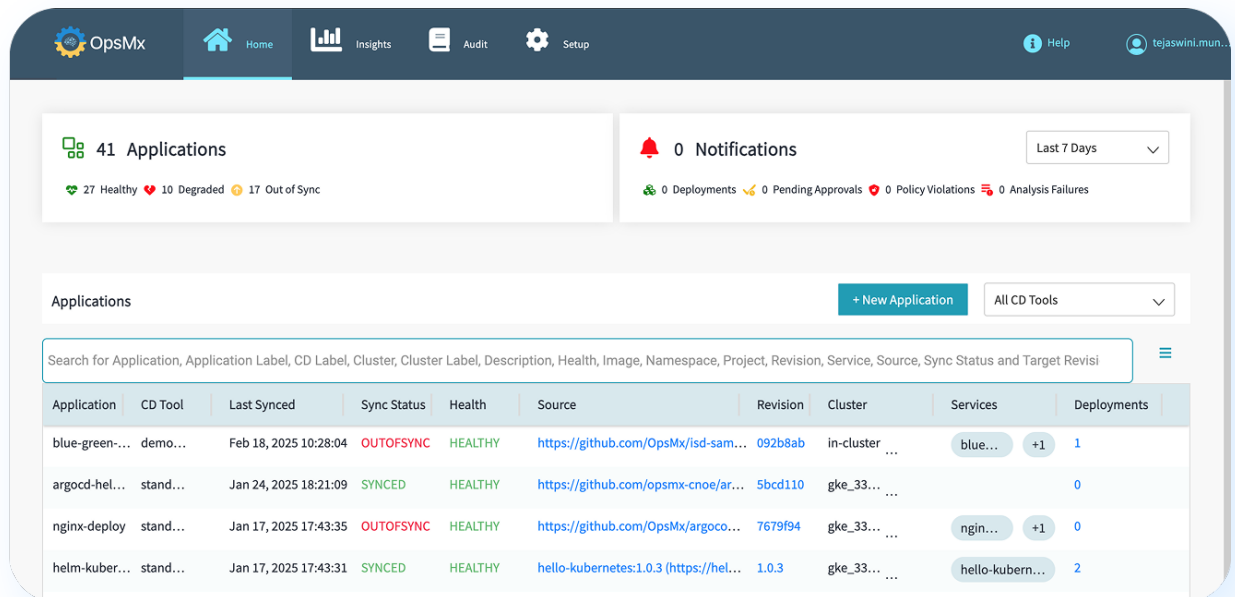
Secure GitOps with Argo CD control plane

- Ensure enterprise-grade security with SSO, RBAC, secret management, and deployment firewalls from a centralized plane.
- Automate vulnerability scanning and compliance checks directly in the GitOps pipeline.



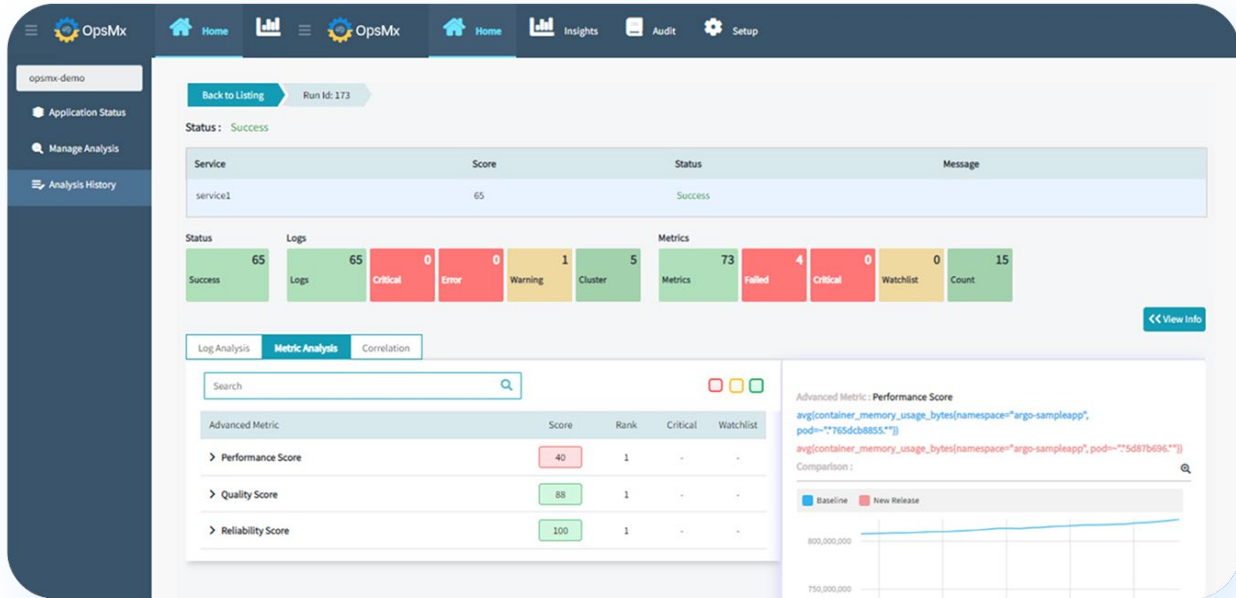
Visibility across multiple Argo CD instances

- Gain real-time insights into application deployments, target clusters, and multiple Argo CD instances.
- Track changes, identify deployment bottlenecks, and troubleshoot issues instantly.



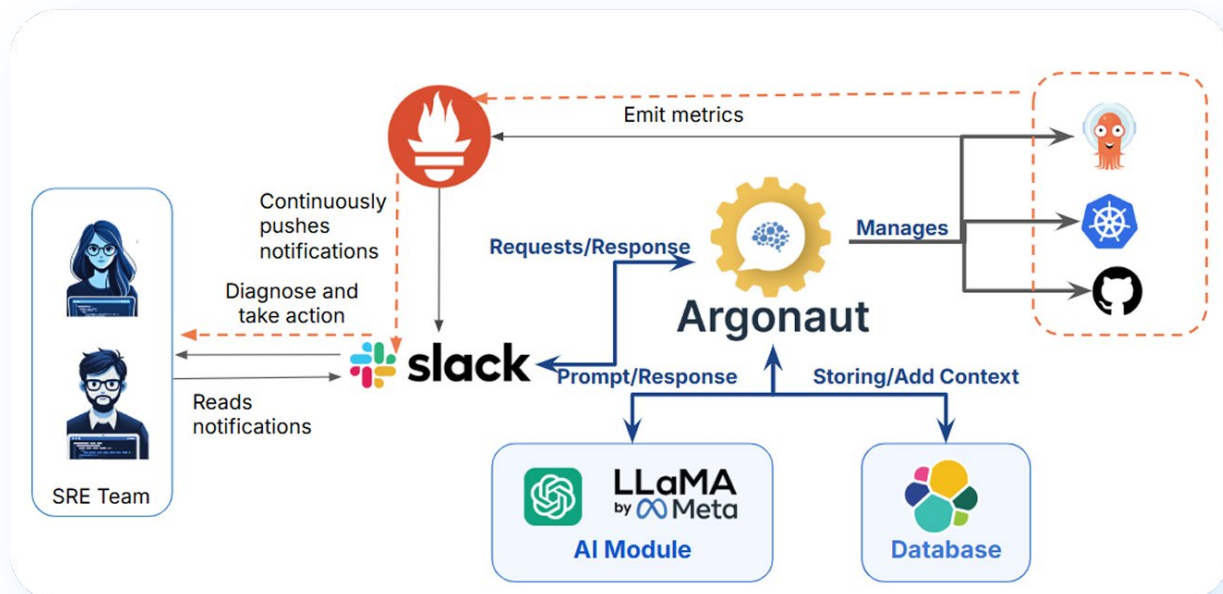
Advanced delivery strategies

- Integrate Argo CD with Argo Rollouts for canary and blue-green deployments.
- Reduce deployment risks with automated rollout decision-making based on live performance data.



GenAI-powered Argo CD operations

- Use AI-powered insights to optimize Argo CD operations and detect potential failures proactively.
- Automate routine tasks and improve deployment efficiency with AI-driven recommendations.



KEY BENEFITS



Low operational Cost

Maintain multiple Argo instances easily with 24/7/365 support from Argo experts. Get SOC-2 certified SaaS solution with 99.99% availability.



3X faster GitOps

Achieve GitOps for enterprises with built-in features such as authentication & authorization, policy enforcement, and integrations with DevOps tools.



GitOps Compliance

Build 100% security and compliance into the GitOps process by enforcing enterprise-wide policies and security checks before deploying code into Kubernetes clusters.



Reduction of Vulnerabilities

80% less production issues through frequent monitoring of security vulnerabilities in application and dependencies at various stages of software delivery.



Safe Delivery into Production

Implement provides delivery strategies such as canary, blue-green, and progressive delivery to release applications safely into production.



Audit Readiness

Be audit-ready at any given point of time with all the data available at the press of a button – who did what and when!

ABOUT US

OpsMx simplifies and accelerates comprehensive application security from developer to deployment building on AI-driven automation, open source security tools, and a deep understanding of the software delivery process. OpsMx enables tens of thousands of developers at both fast moving innovators and global enterprises to deliver more secure software faster.

FOR MORE INFORMATION, CONTACT US:

OPSMX, INC | 350 OAKMEAD PKWY, SUNNYVALE, CA 94085 | INFO@OPSMX.COM

[WWW.OPSMX.COM/SECURE SOFTWARE DELIVERY](http://WWW.OPSMX.COM/SECURE_SOFTWARE_DELIVERY)