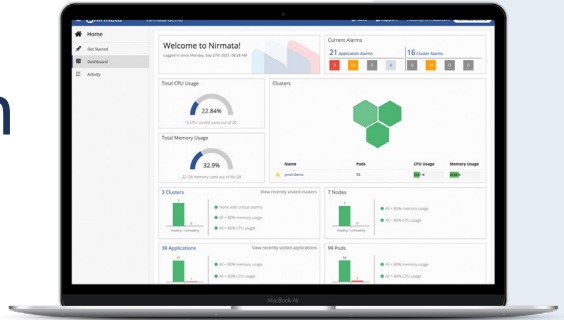# Nirmata

Nirmata DevSecOps Platform

Unified management plane for Kubernetes clusters and workloads that eliminates Day 2 Kubernetes challenges

Introduction

Enterprises are looking to increase developer efficiencies and gain agility using cloud-native technologies such as microservices, containers, and Kubernetes - without compromising security and governance. Multiple options for provisioning clusters are now available. However, the operations and management of business-critical production applications at scale across multiple teams and on any cloud infrastructure remains complex, cumbersome, and costly.

Nirmata DevSecOps Platform is a turnkey, application-centric platform that enables policy-based operations of Kubernetes clusters and workloads on any infrastructure. With Nirmata DevSecOps Platform, you can standardize on Kubernetes as your multi-cloud operating system, cleanly decouple applications from infrastructure, and accelerate innovation.

Workload Management	Policy Management	Cluster Management
Developer Agility	**Service & Compliance**	**Operational Efficiency**
App definitiions, progressive delivery, state, alerts	Multi-Cluster Policy as code	Secure self-service clusters, centralized add-ons

Intelligent Guardrails Powered by Kyverno

GitOps	Metrics	Reports	Alerts	Collaboration

Any infastructure or cloud

amazon web services   Google Cloud   Azure

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Key Benefits:

With Nirmata DevSecOps Platform, Enterprises can:

- Instantly deploy new Kubernetes clusters or on-board your existing Kubernetes clusters.

- Empower developers to rapidly innovate by deploying applications on-demand and quickly identifying any fixing issues.

- Rapidly deploy Intelligent Guardrails by implementing curated best practices, community crowdsourced or custom-developed policies.

- Significantly improve the utilization of your infrastructure by ensuring efficient utilization of cluster resources.

- Efficiently manage resource utilization across multiple clusters independent of how and where they are deployed.

- Remove friction for developers, improve quality and user experiences, and shorten development cycles.

- Protect software supply chain with continuous compliance through policies as a standard part of DevOps pipeline.
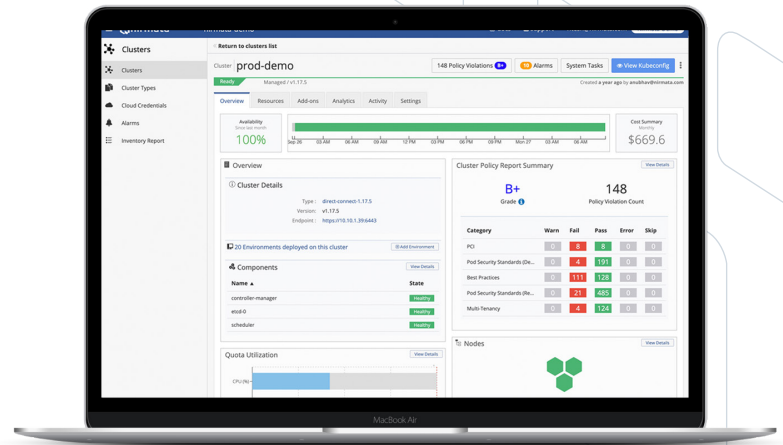
Key Features:

Cluster Management

- Manage multiple clusters and workloads from a single control plane.

- Deploy production-grade Kubernetes anywhere in minutes.

- Discover existing Kubernetes clusters and get full visibility into deployed resources.

- Define cluster types to ensure consistent behaviors for cluster components and workloads.

- Automatically scale clusters up or down based on metrics, conditions, and on-demand triggers.

- Get complete visibility into cluster and workload performance with integrated monitoring and logging.

- Manage access to your clusters using granular access control.

- Use SAML, OIDC with group mappings for centralized authentication.

- Ensure user or team level access across catalog, environments, and clusters.

- Integrate with service catalogs using RESTful APIs for self-service delivery.

Policy Management

- Automated policy distribution across clusters.

- Customized policy per cluster and/or workload based on cluster labels, namespaces or other parameters OR Intelligent Policy to.

- Continuous security and compliance throughout the development process.

- Rich Integration with DevOps workflows and tools to create alerts, tickets, notifications, or custom dashboards.

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Workload Management

- Build and offer curated applications to development teams.
- Easily model complex applications without writing and managing YAML files.
- Export any application as Kubernetes compliant YAML.
- Create secure, compliant and fully isolated virtual clusters on-demand.
- Pre-configure resource quotas and network policies.
- Increase cluster utilization and reduce costs.
- Deploy applications from a catalog or use GitOps to continuously update applications.
- Use change management policies to control and track the flow of changes from CI/CD tools to your devtest, staging, and production environments.
- Automate secrets management using key managers such as Vault.
- Automatically scale your application based on resource utilization.
- Continuously monitor running applications and generate alerts for unexpected conditions.
- Create custom alarms for specific conditions, metrics, or state changes.
- Use an integrated Cloud Shell to access your cluster and containers without requiring complex VPN or SSH.
- Stream container logs directly to a browser for quick analysis.
- Manage the complete application lifecycle using CLI, API, or via an intuitive web interface.

Key Use Cases:

- **Cluster-as-a-Service.** Deliver secure self-service clusters on any cloud. Centrally manage cluster lifecycle and required add-ons.
- **Namespace-as-a-Service.** Securely share clusters across applications and teams. Improve efficiencies by sharing cluster resources.
- **Progressive Delivery using GitOps.** Automate the delivery of your applications using GitOps. Enable progressive delivery for multi-cluster deployments.

TRY IT OUT TODAY

CLOUD NATIVE COMPUTING FOUNDATION

Nirmata is a proud member of the Kubernetes community

Nirmata, the creator of Kyverno, provides open source and commercial enterprise solutions for governance, compliance, security and automation of production Kubernetes workloads. For more information, visit us at https://nirmata.com. You can also follow Nirmata on GitHub, Twitter, Facebook, and Linkedin.

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