

# CD: Spinnaker and Support

Automate Software Delivery, Accelerate Innovation

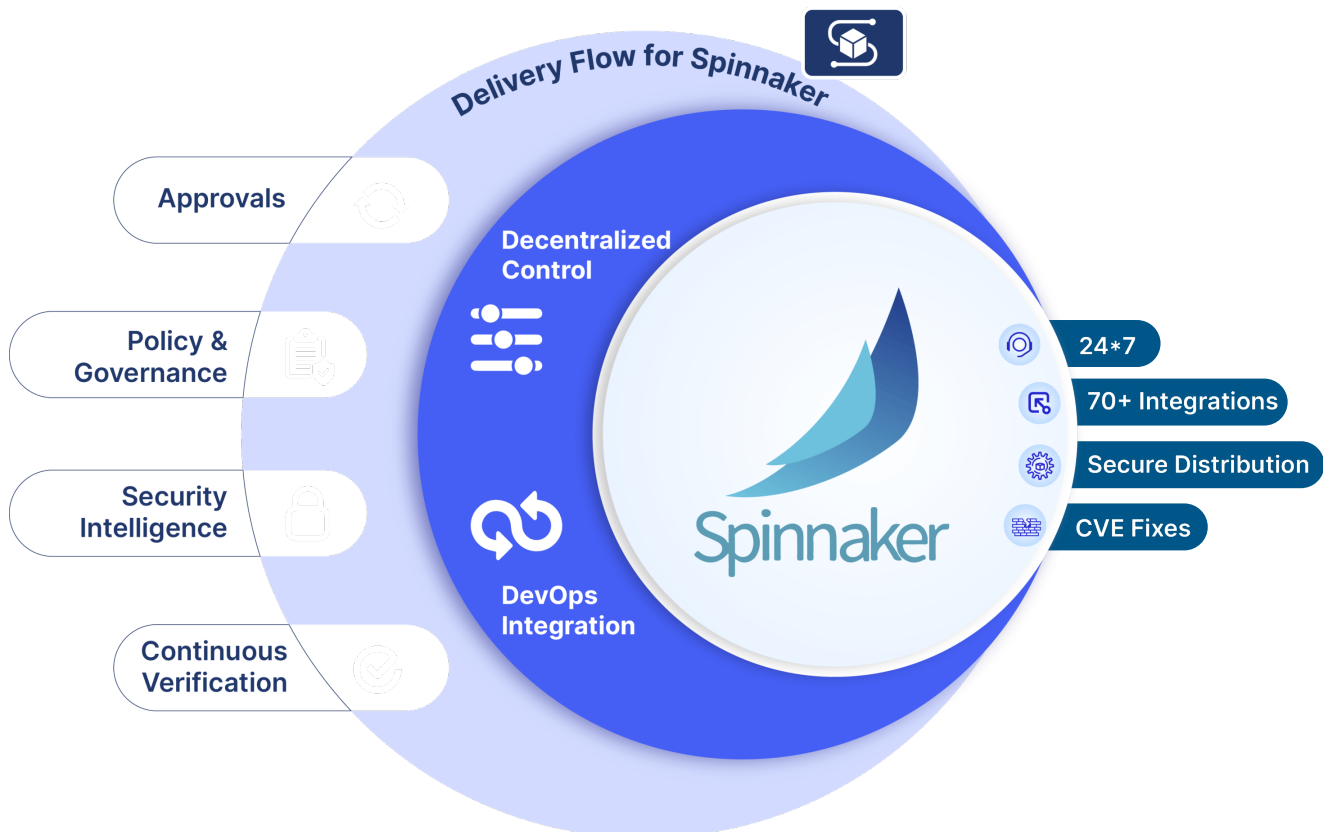


## CHALLENGES

Organizations deploying to multi-cloud and hybrid environments often face challenges with inconsistent workflows, manual approvals, and risky rollouts. Maintaining homegrown CD solutions or heavily scripted pipelines becomes fragile at scale, especially with increasing release velocity. Lack of built-in deployment strategies and governance further increases the risk of production failures. Teams also struggle to integrate security and compliance into delivery workflows without slowing down innovation.

## CONTINUOUS DELIVERY: SPINNAKER & SUPPORT

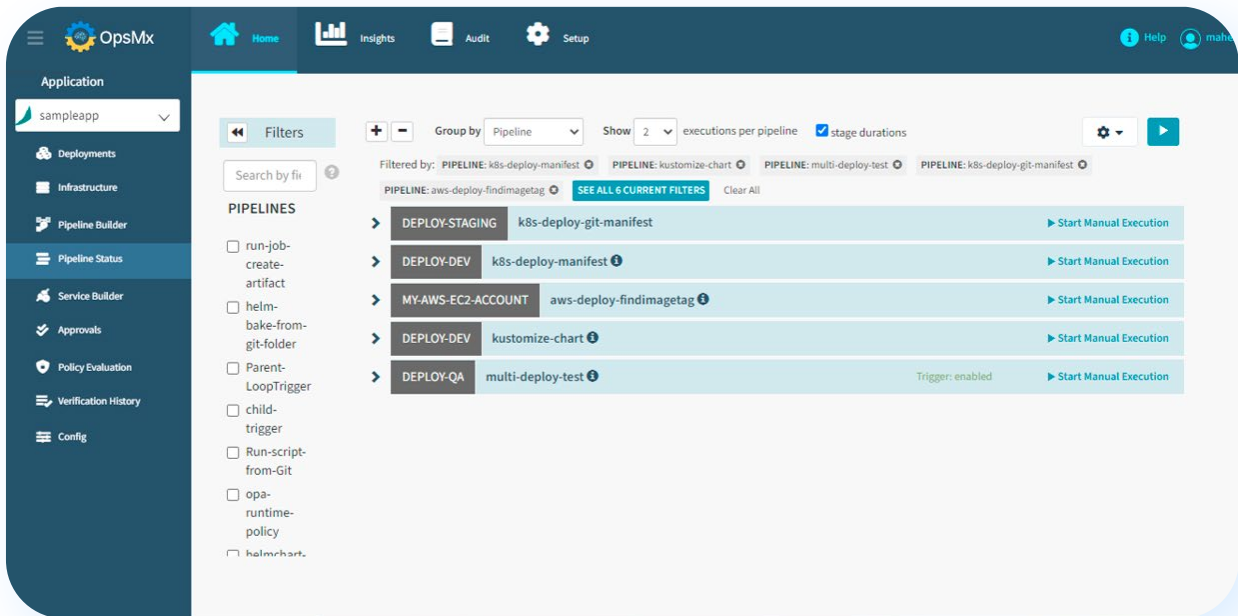
Continuous Delivery: Spinnaker & Support module delivers powerful, enterprise-grade continuous delivery across Kubernetes, AWS, GCP, Azure, and on-prem environments. Built on open-source Spinnaker, it provides out-of-the-box support for canary, blue/green, and rolling deployments, helping teams release confidently at scale. With automated workflows, policy enforcement, security integrations, and centralized observability, this module ensures fast, safe, and compliant software delivery. OpsMx also offers end-to-end support and lifecycle management to simplify Spinnaker adoption and operations.



## FEATURES

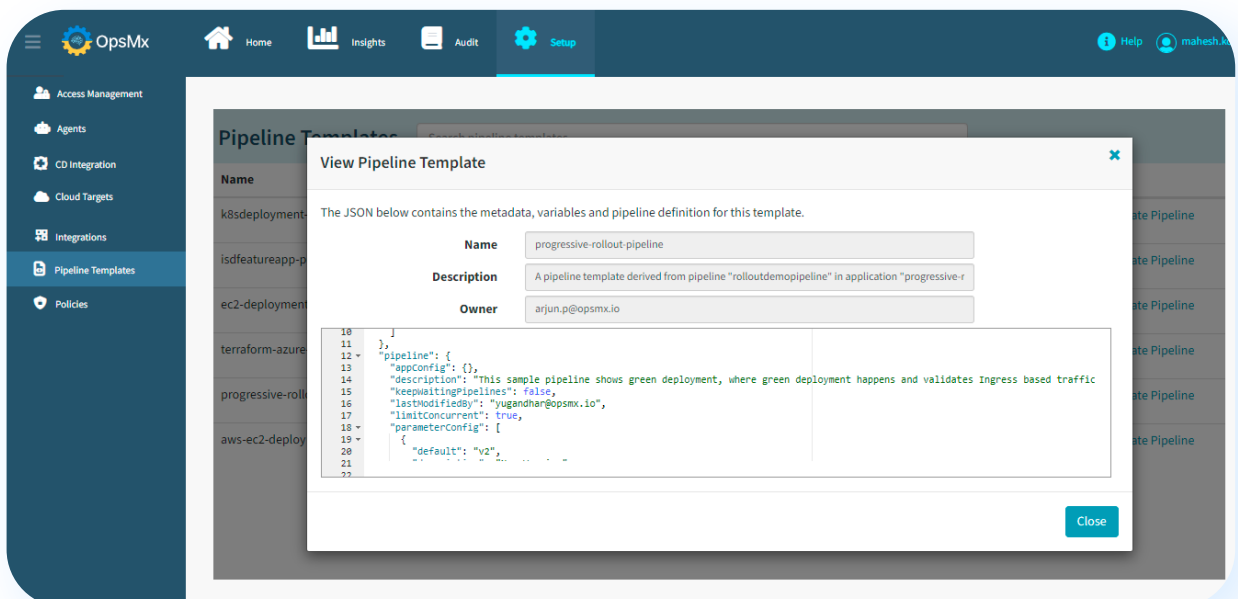
### Multi-cloud deployments

- Automate deployments into AWS, GCP, and Azure without manual reconfiguration.
- Enable consistent software delivery across hybrid and multi-cloud environments



### Safe deployment strategies

- Utilize built-in canary, blue-green, and rolling deployment strategies for zero-downtime releases.
- Automatically rollback failed deployments to prevent production incidents.



## Deployment observability & audit

- Gain complete visibility into deployments with real-time monitoring and audit trails.
- Track deployments across environments and quickly diagnose failures.

The screenshot shows the OpsMx dashboard with a navigation bar (Home, Insights, Audit, Setup) and a user profile (Help, mahesh.kota). The main content area features several summary cards: Total Applications (59), Deployments (423), Pipeline Failures (15), Pending Approvals (0), Policy Violations (0), and Verification Failures (3). Below these is a table of applications with columns for Application Name, Last Executed, Deployments, Notifications, Description, and Owner.

Application Name	Last Executed	Deployments	Notifications	Description	Owner
opsmxgtops	Mar 17, 2023 15:00:00	333	12	Application required for OpsMx fu...	ayan@opsmx.io
issdemoapp	Mar 17, 2023 11:48:51	89	3	-	varshini.d@opsmx.io
awsdemoapp	Mar 16, 2023 19:11:51	0		Application to demo AWS deploy...	ayan@opsmx.io
sampleapp	Mar 12, 2023 19:45:00	0		Application with multiple pipelin...	ayan@opsmx.io
docai	Mar 10, 2023 15:31:44	1	3	-	saiprasad.thukuntla@opsmx.io
gatestest	Mar 1, 2023 12:15:30	0		-	varshini.d@opsmx.io

## Secure & compliant CD

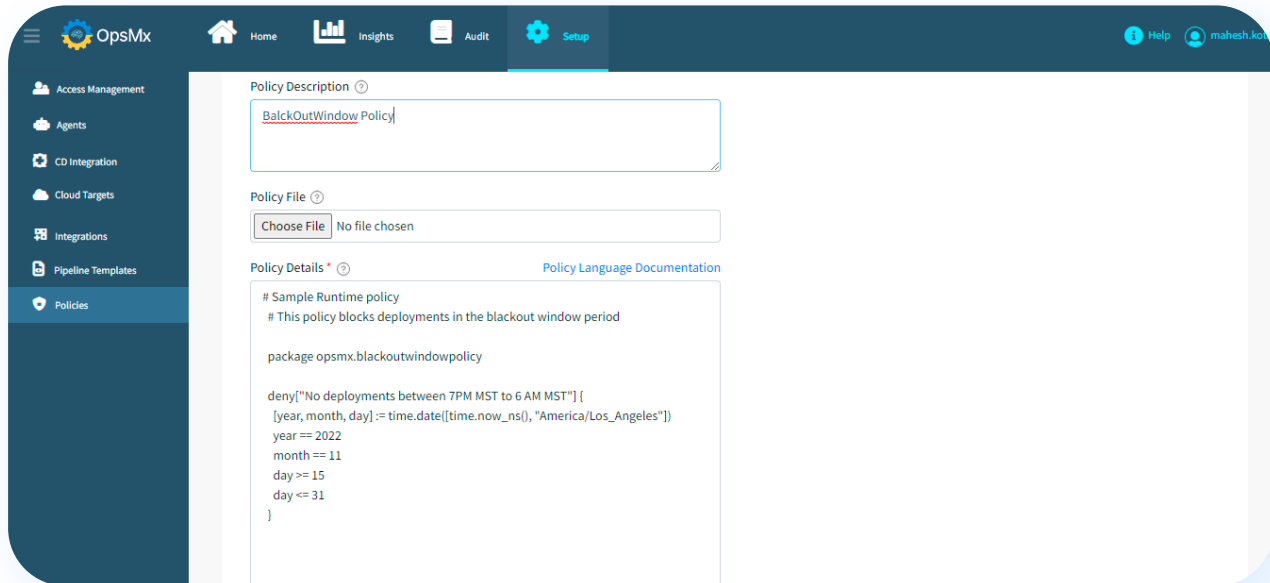
- Harden Spinnaker CD with SSO, RBAC, secret management, and vulnerability scanning.
- Implement delivery firewalls to prevent non-compliant or risky deployments.

The screenshot shows the OpsMx dashboard with a navigation bar (Home, Insights, Audit, Supply chain, Policy, Exceptions, Delivery Infrastructure, Setup) and a user profile (Help, user). The main content area features two summary cards: Application Risk (50 Applications) and Supply Chain Security Alerts (30 Alerts). Below these is a search bar and a table of applications with columns for Application Name, Risk Status, Tools, Deployed At, Alerts, and Owner.

Application Name	Risk Status	Tools	Deployed At	Alerts	Owner
Demo App	Low Risk		Jan 04 2023 12:34:56		admin@opsmx.com
Demo App 2	Low Risk		Jan 04 2023 12:34:56		admin@opsmx.com
Demo App 3	High Risk		Jan 04 2023 12:34:56		admin@opsmx.com
Demo App 4	Low Risk		Jan 04 2023 12:34:56		admin@opsmx.com
Demo App 5	Medium Risk		Jan 04 2023 12:34:56		admin@opsmx.com

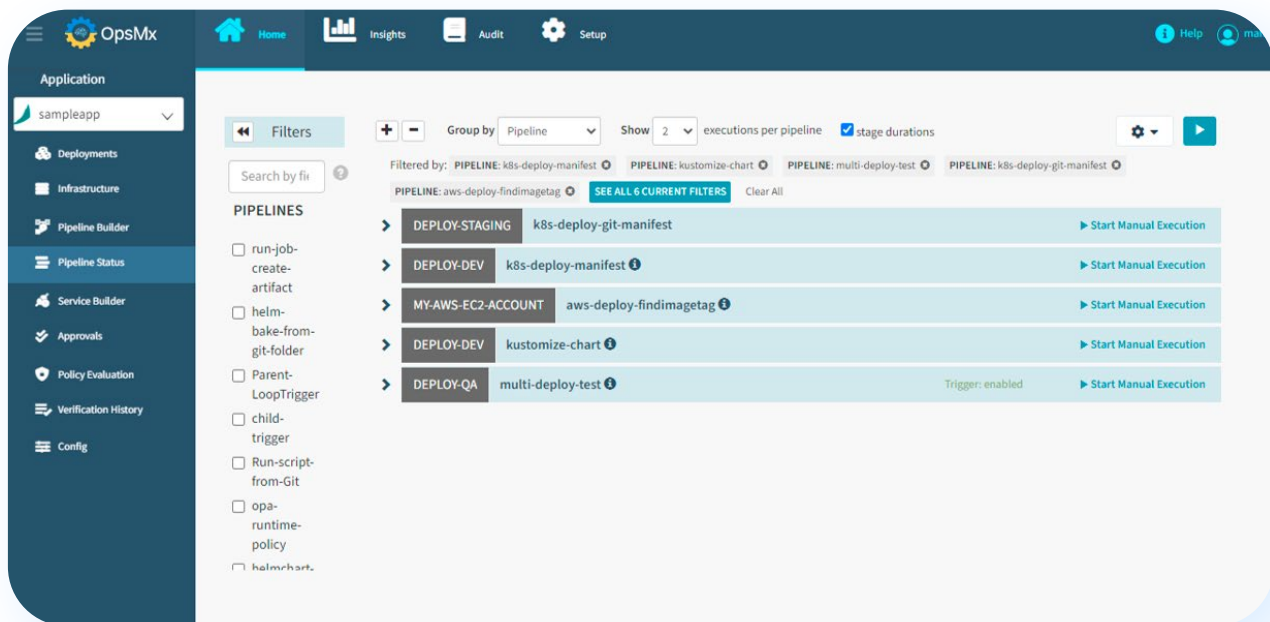
## Approval gates & policy-enforced pipelines

- Set up automated approval gates to enforce SDLC rules and security policies within pipelines.
- Track deployments across environments and quickly diagnose failures. Ensure only validated, secure code is promoted to production.



## Workflow orchestration

- Automate end-to-end CI/CD process, connecting Git, Jenkins, testing tools, scanning tools, secret management, IAM, Spinnaker, Argo CD, and Kubernetes.
- Enable sequential deployments from Dev → Staging → QA → Production with minimal manual intervention.





## Trigger-based workflow execution

- Automatically trigger workflows when a GitHub Action job pushes an image to a Docker repo.
- Enable event-driven deployments using Pub/Sub triggers to deploy new images instantly.

### Automated Triggers

Type Docker Registry ✕ 🗑️

Define Image ID Select from list ▼

Registry Name jfrog-opsmx-dcr ✕ 🔄

Organization default-docker-local/sagayd ✕ ▼

Image default-docker-local/sagayd/demo-app ✕ ▼

Tag

*(Optional) If specified, only the tags that match this Java Regular Expression will be triggered. Leave empty to trigger builds on any tag pushed. Builds will not be triggered off the latest tag or updates to existing tags.*

Artifact Constraints Select or define an artifact... ▼

Trigger Enabled

## Manual approval workflows

- Implement an opinionated model for YAML promotion across environments, ensuring controlled releases.
- Allow sequential deployments with manual approval checkpoints before promoting code to production.

OpsMx
SPINNAKER
Search
Projects
Applications
Pipeline Templates
Search
user2

- Dashboard
- Continuous Delivery
- Continuous Verification
- Security
- Compliance
- Setup

**Stage Name** Manual Judgment 🗑️ Remove stage

**Depends On** Select...

#### Manual Judgment Configuration

**Instructions** please approve this pipeline

**Propagate Authentication**

**Judgment Inputs**

**Option**

Add judgment input

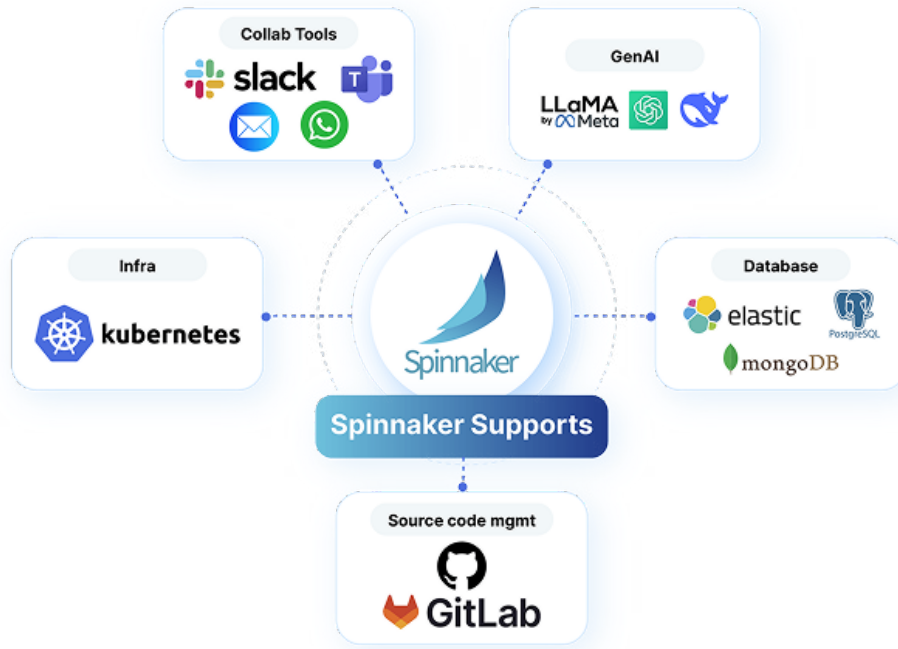
**Actions**

**Send Notifications**

Type	Details	Notify When	Actions
Email	clin@netflix.com	This stage is awaiting judgment	<a href="#">Edit</a> <a href="#">Remove</a>

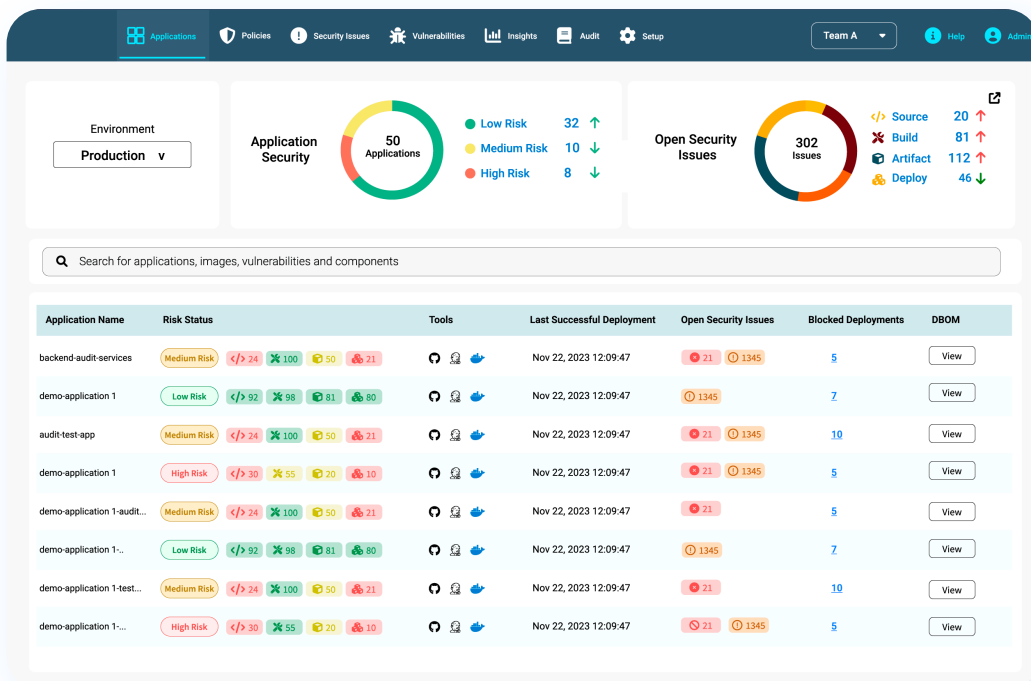
## Alerts & notifications for deployment events

- Get real-time notifications for deployments via Slack, Microsoft Teams, WhatsApp, and Email.
- Stay informed with alerts for failed deployments and pipeline execution issues to take immediate action.



## Delivery compliance & governance

- Enforce SOX, HIPAA, and SDLC compliance directly in the workflow to prevent policy violations.
- Ensure every deployment follows governance best practices with automated compliance checks.



The dashboard shows the following summary data:

- Environment:** Production
- Application Security:** 50 Applications
  - Low Risk: 32 (up arrow)
  - Medium Risk: 10 (down arrow)
  - High Risk: 8 (down arrow)
- Open Security Issues:** 302 Issues
  - Source: 20 (up arrow)
  - Build: 81 (up arrow)
  - Artifact: 112 (up arrow)
  - Deploy: 46 (down arrow)

Application Name	Risk Status	Tools	Last Successful Deployment	Open Security Issues	Blocked Deployments	DBOM
backend-audit-services	Medium Risk		Nov 22, 2023 12:09:47	21  1345	5	<a href="#">View</a>
demo-application 1	Low Risk		Nov 22, 2023 12:09:47	1345	7	<a href="#">View</a>
audit-test-app	Medium Risk		Nov 22, 2023 12:09:47	21  1345	10	<a href="#">View</a>
demo-application 1	High Risk		Nov 22, 2023 12:09:47	21  1345	5	<a href="#">View</a>
demo-application 1-audit...	Medium Risk		Nov 22, 2023 12:09:47	21	5	<a href="#">View</a>
demo-application 1...	Low Risk		Nov 22, 2023 12:09:47	1345	7	<a href="#">View</a>
demo-application 1-test...	Medium Risk		Nov 22, 2023 12:09:47	21	10	<a href="#">View</a>
demo-application 1...	High Risk		Nov 22, 2023 12:09:47	21  1345	5	<a href="#">View</a>

## KEY BENEFITS



### 10X Faster Delivery

Deliver applications to the market faster with pre-defined Spinnaker pipelines. Deploy into on-prem, hybrid and multi-cloud environments seamlessly without any scripts.



### 100% CD Compliance

Central security and compliance teams can define enterprise-wide security and compliance checks with policy enforcement by intelligent automation.



### Safe Delivery into Production

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



### Reduction of Vulnerabilities

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



### Best-of-Breed Tools

Get Started in minutes – Out of the box native integration to support 70+ deep integrations with current and future CI/CD and DevOps tool chain.



### 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:

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