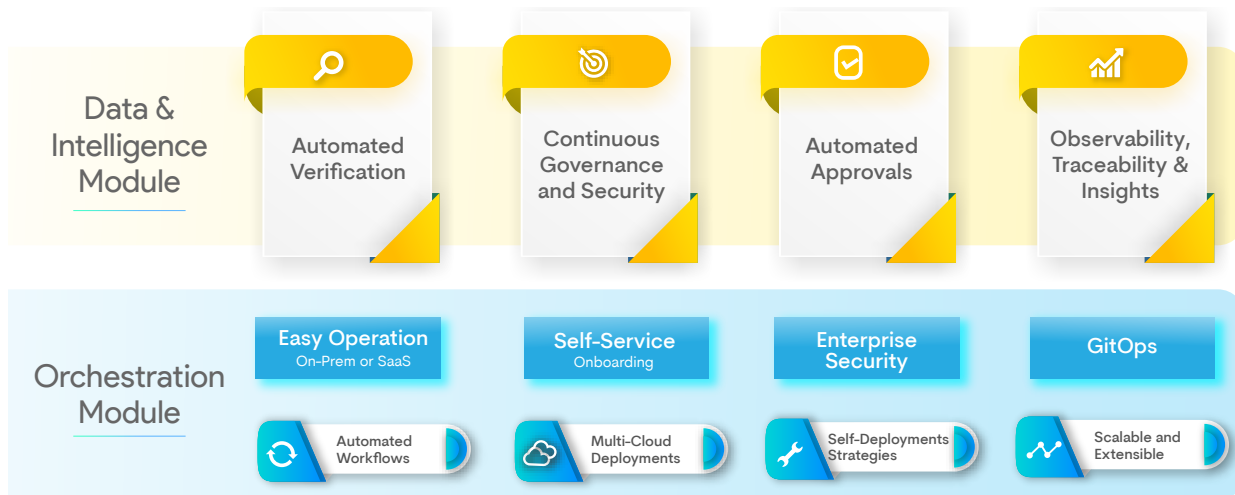# OpsMx

OpsMx Intelligent Software Delivery

*A modern continuous delivery platform designed to
eliminate human intervention in the software delivery process*

BUSINESS CHALLENGES

Enterprises struggle to implement a safe and secure continuous delivery practice that scales for multi-cloud environments. As organizations scale CD, their codebases, services, languages, infrastructure, risks, and, most notably, complexity increases. Increasing complexity is challenging even for the most advanced organizations.   With growing complexity, it becomes increasingly difficult to deliver software to customers with high confidence and velocity.

OpsMx Intelligent Software Delivery Platform (ISD) is a highly scalable, intelligent multi-cloud software delivery platform that leverages leading open source project Spinnaker for its underlying multi-cloud orchestration functionality while adding simplicity, security, safety, and intelligence to the platform.

Data & Intelligence Module				
	Automated Verification	Continuous Governance and Security	Automated Approvals	Observability, Traceability & Insights

Orchestration Module				
	Easy Operation On-Prem or SaaS	Self-Service Onboarding	Enterprise Security	GitOps
	Automated Workflows	Multi-Cloud Deployments	Self-Deployments Strategies	Scalable and Extensible

KEY BENEFITS

Accelerate the Velocity of Software Delivery

Replace manual scripts with automated workflows that scale across multi-cloud environments.

Deploy Software Safely and Reliably

Deploy applications quickly and safely through out-of-box support for Canary and Blue-Green deployments.

Data Driven Decisions

Make informed approvals and decisions across all stages of a deployment pipeline.

Minimized Risk of Production Failures

Automatically determine the risk of every software change before releasing to production.

Ensure Security and Compliance

Mitigate Risk and vulnerabilities by security and policy enforcement in pipelines.

Streamline Onboarding and Complexity

SaaS option provides immediate access to the OpsMx ISD platform with no maintenance and operational burden.

OpsMx Intelligent Software Delivery(ISD) Key Modules

OpsMx ISD's modular architecture gives you the choice of full-stack deployment automation with Spinnaker or extending your current CD platform with ISD's Intelligence and Data module.

Orchestration Module

OpsMx Enterprise for Spinnaker(OES)

OpsMx Enterprise for Spinnaker (OES) is a highly scalable, secure, multi-cloud continuous delivery solution that helps you release software changes with high velocity and confidence. OES empowers teams to modernize their software delivery: release more quickly, reduce risk, and cut costs.

Data Intelligence Module

OpsMx Autopilot

OpsMx Autopilot provides real-time analytics to automate data-driven risk assessments for software releases. Autopilot analyzes the risk of all changes, automatically determining the confidence that an update can be promoted to the next pipeline stage without introducing errors. Autopilot reduces errors in production, increases release velocity, and improves security, quality, and compliance.

OpsMx Enterprise for Spinnaker

OpsMx Enterprise for Spinnaker (OES) is the orchestration module of ISD Platform. It is a highly scalable, secure, multi-cloud continuous delivery solution that helps you release software changes with high velocity and confidence.
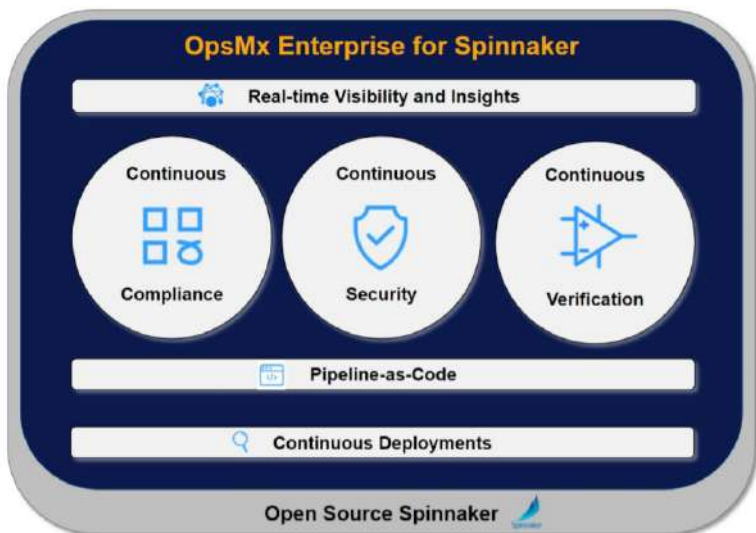
• Easy Operation

Enable reliable and efficient CD operation with on-prem or SaaS model

• Self-Service

Ensure smooth and painless enterprise-scale adoption

• GitOps

Deploy your application declaratively with Git as source-of-truth.

OES was architected to be pluggable on top of Open Source Spinnaker, preventing vendor lock-in

TRUE OPEN SOURCE

With OES you're enterprise-ready from day one, always have immediate access to Spinnaker community upgrades and fixes, and are never locked into a vendor's proprietary distribution.

KEY BENEFITS ▼

Faster Adoption
An enterprise-ready distribution and expert onboarding services speeds adoption

Reduced Cost and Increased ROI
OES with included onboarding and support services lowers TCO compared to a do-it yourself (DIY) approach.

Reduced Errors and Outages
Expert configuration, support, and application of pre-built best practices and deployment strategies reduce outages from failed deployments.

Better Security and Compliance
OES provides a hardened Spinnaker with pre-configured security best practices and fast fixes of security vulnerabilities, resulting in reduced misconfiguration errors and fast issue resolution.

Reduced Business Risk
Access to OpsMx experts, pre-configured best practices, and 24/7 support help mitigate many operational and business risks commonly associated with open source

No Vendor Lock-In
OES is pluggable on top of Open Source Spinnaker, so you're never locked into a vendor's proprietary distribution.

MODERN APPLICATION DELIVERY FOR THE ENTERPRISE

OpsMx Enterprise for Spinnaker is built on six fundamental pillars of modern application delivery, empowering enterprises to transform their application delivery by releasing faster with greater confidence and reduced risk.

CONTINUOUS DEPLOYMENT

- **Achieve repeatable multi-cloud deployments** without scripting

- **Deploy all app types,** including microservices and traditional monolith applications

- **Reduce failure rates** with built-in safe deployment strategies across public, private, and container environments

PIPELINE-AS-CODE

- **Automate and simplify** the creation of application delivery workflows

- **Templatize pipelines** and enable fine-grain policy checks at every stage

- **Get real-time visibility** and diagnostics during pipeline execution

CONTINUOUS COMPLIANCE

- **Ensure compliance** with organizational policies while shipping your releases faster to production

- **Templatize pipelines** and enable fine-grain policy checks at every stage

- **Quickly identify** the who, what, when, where, and how for your pipelines and applications with audit reports and traces

CONTINUOUS SECURITY

- **Mitigate risks** by integrating security best practices into all deployment stages

- **Secure release pipelines,** manage user authentication and role-based access control

- **Ensure built-in protection** across multiple teams, point tools, and infrastructure with hardened Spinnaker

CONTINUOUS VERIFICATION

- **Drastically reduce errors** during build, deploy, test, and release phases

- **Validate the health** of new software releases with data from metrics and logs using AI/ML algorithms

REAL-TIME INSIGHTS & VISIBILITY

- **Increase confidence** in releases by identifying defects in pipeline and application deployment with deep insights.

- **Foster high trust and a collaborative culture** with real-time visibility of deployments and their performance at different stages
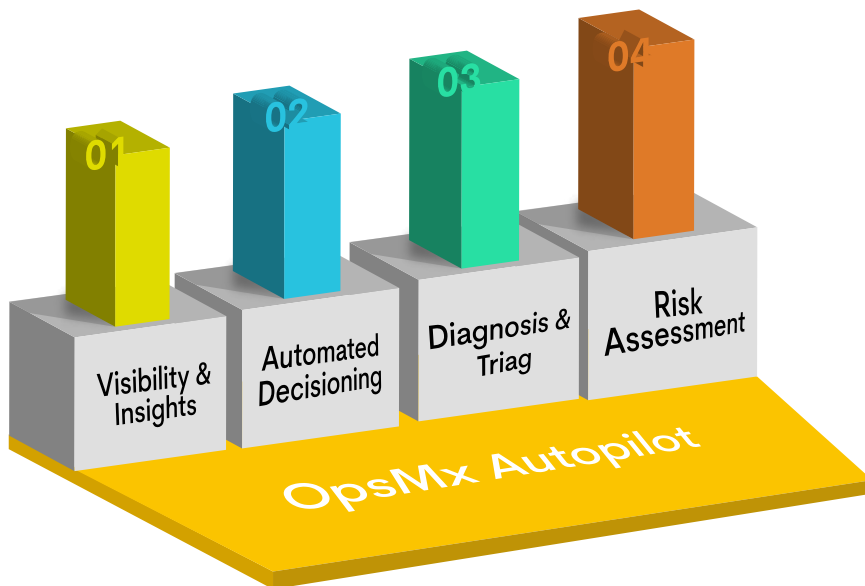
AUTOPILOT
Intelligence for any CI/CD

BUSINESS CHALLENGES

With modern CI/CD systems enabling faster and more frequent software releases, the importance of verifying releases and assessing their potential impact on the business is rising. Currently, DevOps teams manually analyze large volumes of operational data, logs, and metrics against acceptance criteria to verify a release's fitness for the next stage of deployment. With many releases planned per day, the manual verification process is time consuming, and non-scalable.

OpsMx Autopilot is the Data and Intelligence module of our ISD platform. It analyzes the risk of all changes, automatically determining the confidence that an update can be promoted to the next pipeline stage without introducing errors.

The Four Pillars of Continuous Verification

INTELLIGENT CONTINUOUS VERIFICATION

Autopilot enables enterprises to identify and mitigate risks at all stages of the software development process. It provides a continuous risk assessment of software builds, automated test cases, and deployment releases in a single pane, and informs and notifies stakeholders of the confidence level for promoting a release to the next stage. Autopilot is powered by advanced AI/ML algorithms that enable large-scale ingestion of logs and metrics from monitoring tools to understand production health post deployment and enable further diagnosis and triage.

KEY FEATURES

- **Risk Assessment:** AutoPilot understands the risk of new releases at each stage (build, test, deploy, prod)

- **Automated Decisioning:** AutoPilot promotes releases to the next stage only when acceptance criteria have been met

- **Diagnosis and Triage:** AutoPilot leverages AI/ML technologies to investigate and find the root cause of releases abnormalities

- **Visibility and Insights:** AutoPilot provides a real-time consolidated view of deployment statuses such as latency, resource usage, build/test case failures
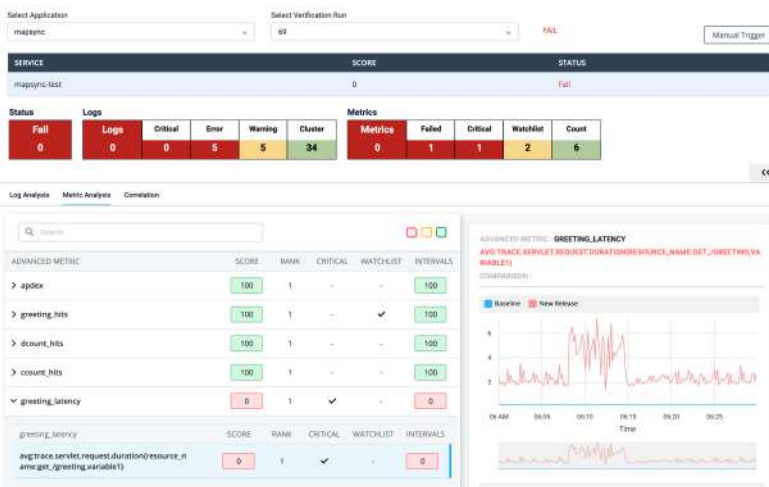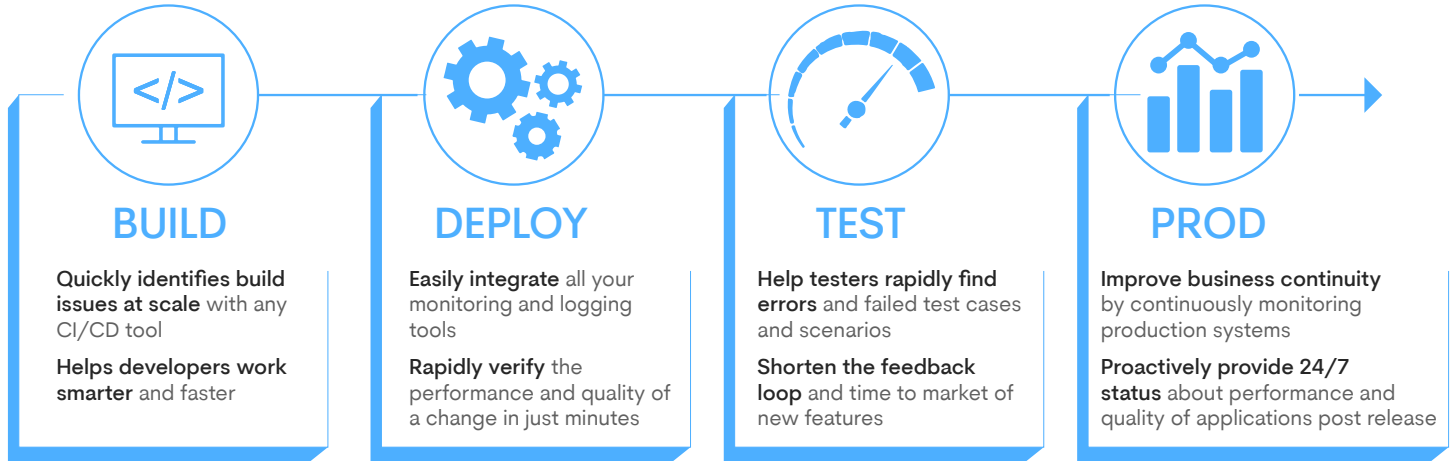
KEY BENEFITS

- **Increase business velocity and continuity** by reducing risks and errors in new software releases by up to 50%

- **Reduce MTTI and MTTR issues** in the continuous deployment of releases

- **Reduce product failures by 3X** with risk assessment during blue-green deployment or canary releases

- **Ensure reliability and sustainability** of updates to production

- **Eliminate dependency on experts** and save 3-4 hours per verification

- **Increase collaboration** among DevOps and Infrastructure teams

CONTINUOUS RELEASE VERIFICATION AT EACH STAGE OF CI/CD

OpsMx Autopilot is an intelligent continuous verification platform that enhances and maximizes analysis, performance and quality measurement at every stage of the CI/CD pipeline

BUILD

Quickly identifies build issues at scale with any CI/CD tool

Helps developers work smarter and faster

DEPLOY

Easily integrate all your monitoring and logging tools

Rapidly verify the performance and quality of a change in just minutes

TEST

Help testers rapidly find errors and failed test cases and scenarios

Shorten the feedback loop and time to market of new features

PROD

Improve business continuity by continuously monitoring production systems

Proactively provide 24/7 status about performance and quality of applications post release

Risk assessment of test indicating poor confidence to be promoted for production stage

Unified view of historical success and failure analysis of releases in build, deployment, testing and production stages.

Trusted by Leading Enterprise