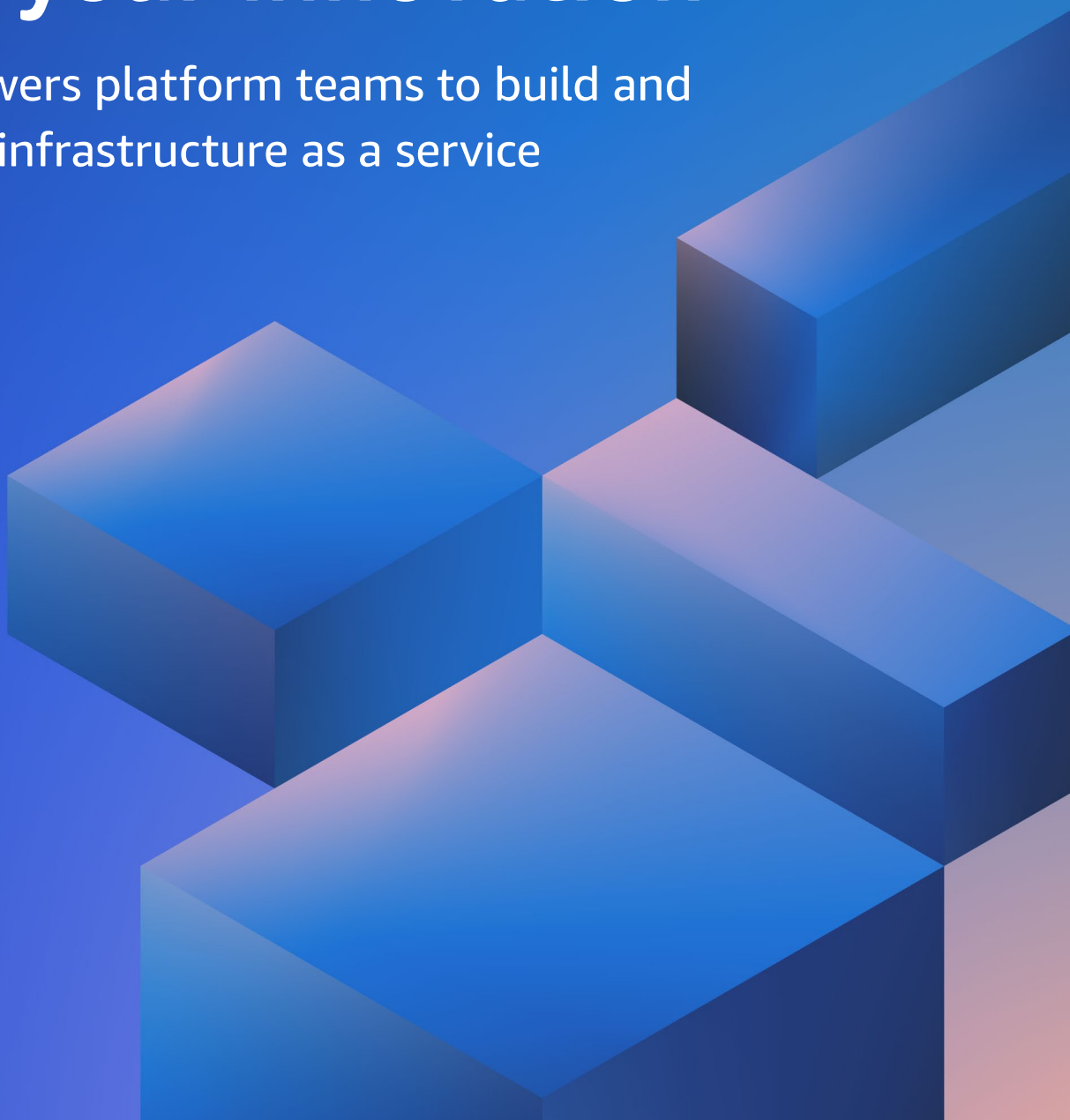
Automate the AWS infrastructure that drives your innovation

Rafay empowers platform teams to build and deliver AWS infrastructure as a service



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Automation at the speed of business

To keep pace with modern business demands, organizations are continuously seeking innovative, cloud-native ways to enhance efficiency, move more quickly, and improve competitiveness. DevOps practices were invented to give developers the autonomy they need to iterate quickly and deliver high-quality software that customers love, faster than their competitors. Today, data scientists testing generative artificial intelligence (AI) models, researchers and engineers running simulations, and developers building time-saving business applications all rely on rapid, on-demand access to the cloud.

Similarly, platform teams were created to support developers and other cloud users by freeing them from the burden of provisioning and managing cloud infrastructure, such as containers. According to Gartner, 80 percent of large software organizations will create platform engineering teams for this purpose by 2026. Tasked with building reusable services, components, and tools for application delivery that improve user experience, delivery speed, and process agility, platform teams help organizations meet important business goals:

- **Increasing developer productivity:** By creating well-engineered self-service workflows for developers, platform teams can accelerate innovation, decrease operational risk and inefficiency, and boost developer satisfaction and morale.
- **Reducing costs:** With visibility across an organization's entire cloud estate, platform teams help right-size cloud spend without compromising agility and innovation.
- **Optimizing cloud strategy:** Platform teams help organizations operate safely and effectively across hybrid and multi-cloud environments, speeding cloud adoption or migration.
- **Leveraging AI:** Unlocking emerging AI use cases starts with experimentation and iteration. Platform teams support automation that makes experimentation faster, easier, and less risky.

For today's platform teams, the charge is clear: Build and deliver automation that provides rapid access to cloud environments, containers, and Kubernetes (K8s) clusters to turbocharge innovation and fundamentally transform the business.

80%

of businesses plan to grow their cloud software automation investment over the next year.

—Stonebranch 2023 Global State of Automation IT report

Self-service tools, rapid results

Everyone benefits when teams that need rapid access to dependable, proven, hardened cloud infrastructure can get it for all their development, testing, or production needs.

Top infrastructure tools critical for modern DevOps

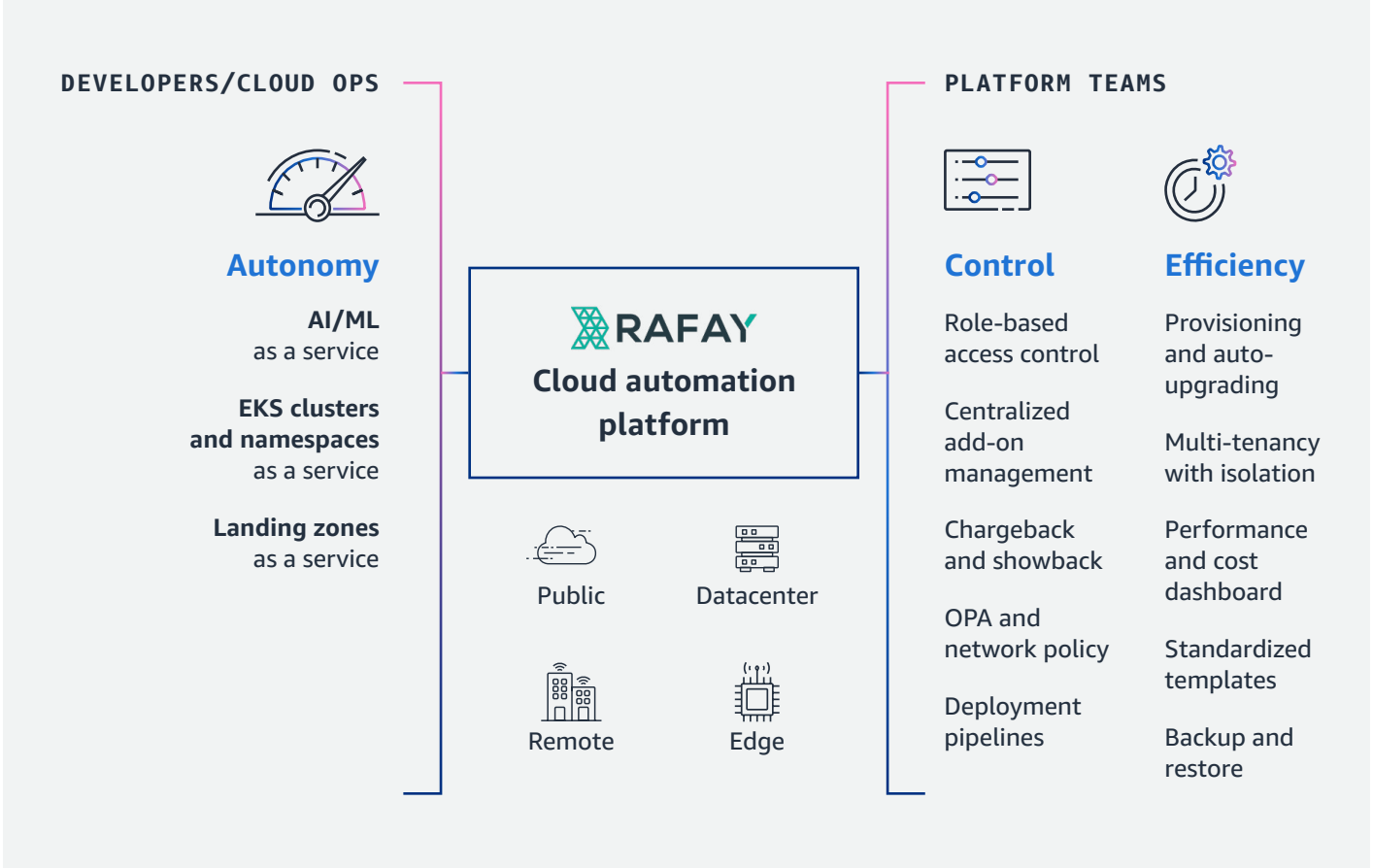
- **Turnkey self-service workflows with built-in automation and governance.** To boost velocity and productivity, developers (and the operations teams supporting them) require one-click access to the cloud infrastructure they need, when they need it, for whatever use case drives that need. In addition, the workflows must automate any governance checks prior to provisioning so the business is assured that the infrastructure is safe, up to date, and within budget.
- **Rapid Kubernetes provisioning capabilities with cluster- or namespace-as-a-service.** Modern IT organizations are leaning into containers, and Gartner predicts that 90 percent of all global organizations will be running containerized applications in production by 2027. K8s is rapidly becoming the default choice for container deployments, making the ability to access K8s infrastructure through self-service processes critical.
- **Simplified Kubernetes management for day-2 operations.** For DevOps teams aiming to maintain operational efficiency and agility, effective K8s management post-deployment is essential. Tools that streamline scaling and updating ensure an environment that is both easily deployable and sustainably managed, securing performance and reliability in the long term.
- **Rapid provisioning of environments, with guaranteed safety.** Cloud infrastructure is more than containers. Developers and other cloud users often need other services—databases, cloud storage, cache services, and more—to be connected to their containers in order to create viable landing zones for their applications. These as-a-service provisioning workflows must also be templatized and automated.
- **Tools to monitor and troubleshoot application performance.** Once infrastructure is deployed, it must be monitored. Platform teams should provide optimized tools that developers want to use so that they don't feel the need to use their own decentralized solutions. Engineers tasked with operational duties also benefit from centralized monitoring for all cloud infrastructure in use.
- **Tools to estimate cost of requested infrastructure, both before it is provisioned and over time.** While innovation gets the headlines, it's critical to keep an eye on costs. Budgets aren't getting any bigger, and no team should be wondering how their cloud expenses are tracking against their budget. Providing greater financial transparency to developers, operations teams, and executives gives everyone confidence that cloud resources are being spent intelligently.

75% **of organizations with platform engineering teams will provide self-service and internal developer platforms (IDPs) by 2026.**

—Gartner

Rafay: Cloud automation on AWS

While the benefits of cloud automation are clear, building these capabilities from scratch takes resources better spent elsewhere. Rafay System's Cloud Automation Platform combines Kubernetes and environment management in a single solution, empowering platform teams to deliver and automate full-stack developer self-service capabilities. And as an AWS Specialization Partner, Rafay seamlessly integrates with Amazon Web Services (AWS) services.



How AWS customers innovate faster with Rafay

“Platform engineering teams, cloud architects and I&O leaders can benefit from Rafay’s centralized automation and governance of Kubernetes clusters.”

—Gartner Cool Vendors in Container Management 2023

Rafay empowers platform teams to create curated, validated, policy-compliant environments tailored to developers’ needs, across infrastructure hosted in AWS or any other cloud. For example, platform teams can model complex interdependencies between key AWS resources needed to launch generative AI applications in AWS, like Amazon Bedrock and Amazon SageMaker Studio. They can also include the supporting resources needed to successfully use Bedrock or SageMaker, such as network infrastructure using Amazon Virtual Private Cloud (Amazon VPC), authentication and authorization using AWS Identity and Access Management (AWS IAM) and Secrets Manager, and compute environment using Amazon Elastic Kubernetes Service (Amazon EKS) or Amazon Elastic Container Service (Amazon ECS).

Successfully launching such environments requires subject matter experts who understand resource dependencies, configuration best practices, and security controls—all of which can be managed by the platform team. Developers can then consume these higher-level abstractions instead of lower-level primitives, accelerating the pace of innovation.

Autonomy and speed meet efficiency and control

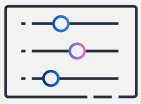
Innovation—and business—thrives when developers, data scientists, and other key users can quickly access the AWS tools they need. Rather than having to learn new technologies, manage compute resources, or wait for operations teams to provision infrastructure, they are free to focus on the projects at hand. They can iterate and experiment quickly and with confidence, knowing that their work is built on solid, proven, and continuously maintained technologies.

Through its Cloud Automation Platform, Rafay has helped customers like Verizon and Genentech realize the benefits of greater autonomy, along with the control and efficiency needed to deliver that autonomy safely. **Companies using Rafay to build self-service workflows have increased deployment rates by 4X while simultaneously lowering cloud costs by 63 percent.**

RAFAY Cloud Automation Platform

Autonomy
and speed

4x
more deployments



Control
and governance

5x
cloud growth

Efficiency
and stability

76%
lower mean time to resolution

"We were able to fast-track our drug discovery…we were able to discover new drugs and get them to market at a much faster pace."

—Ra Singh, Head of Cloud & Database DevOps, Regeneron Pharmaceuticals

CUSTOMER STORY

MoneyGram streamlines Amazon EKS operations with Rafay

Challenge

As a global leader in cross-border peer-to-peer (P2P) payments and money transfers, MoneyGram is committed to meeting the needs of tech-minded customers around the world. To provide the modern financial solutions these customers demand, the company's application developers launched a strategic digital transformation initiative to quickly move production workloads to cloud infrastructure.

To ensure success, MoneyGram chose AWS as its strategic cloud provider and Amazon EKS to rapidly deploy and manage its cloud-native applications. Initially, the company tried a do-it-yourself Kubernetes operations solution, but experienced several challenges that stalled its modernization journey:

- Difficulty obtaining a single, unified view of all applications and clusters across global AWS Regions.
- Lack of available talent with the right Kubernetes skillset.
- An inability to standardize clusters across engineering and business applications.
- No easy way to centrally define, manage, and enforce environments, making it difficult to meet regulatory requirements.

Solution

MoneyGram chose the Rafay Cloud Automation Platform (formerly the Rafay Kubernetes Operations Platform) to streamline Amazon EKS operations. With its deep integration with Amazon EKS, the platform delivered a single pane of glass for global visibility and monitoring of all Amazon EKS clusters. The solution also automated cluster lifecycle management of 40+ workloads, including cluster provisioning, scaling, and one-click Amazon EKS upgrades fleet-wide.

Rafay's platform allowed MoneyGram to create 100+ cluster blueprints to define, procure, and enforce standard cluster configurations across development and production environments. The solution also enabled single sign-on for all developers, operations, and support personnel as well as role-based access control and isolation boundaries.

Results

Working with Rafay, MoneyGram launched a fully functional Kubernetes operations practice in less than three months, eliminating the complexities of Kubernetes and deploying more modern applications into AWS faster. Now, MoneyGram's relatively small DevOps team can focus on higher-value work rather than managing Kubernetes details.

"With the help of Rafay Systems and AWS, we are able to deliver new, innovative products and services to the global market faster and manage them all cost-effectively."

—Joe Vaughan, Chief Technology Officer, MoneyGram International

Elevate your business—automatically

See for yourself how Rafay delivers the automation your business needs with the level of standardization, control, and governance your platform teams want. Book a demo today.

About Rafay Systems

Every modernizing enterprise has complicated cloud infrastructure, and they're all building automation to hide that complexity from users. But they shouldn't have to do it all.

Rafay's Cloud Automation Platform provides a solution for platform teams that wish to build automated self-service cloud infrastructure workflows that bridge the complexity gap, so your business can focus on rapid innovation rather than cloud management. Rafay's solution allows platform teams to enable anyone who depends on rapid access to cloud infrastructure to move faster safely, which is why Gartner has recognized Rafay as a Cool Vendor in Container Management in 2023.

With Rafay solutions, platform teams at MoneyGram, Guardant Health, Verizon, and many other companies deliver autonomy to cloud users (including developers, data scientists, and researchers) while maintaining control and efficiency over cloud operations.

For more information, please visit www.rafay.co.

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