## PLATFORM ENGINEERING INNOVATION ON MICROSOFT AZURE

In today's fast-paced digital landscape, enterprises need robust, scalable, and efficient platforms to stay competitive. **Platform engineering** (PE) is the key to achieving this, offering a comprehensive approach to building and managing the underlying infrastructure that supports your business applications and services.



Investing in platform engineering will transform your application modernization efforts, making your development processes more efficient, secure, and scalable. It ultimately enables your enterprise to deliver high-quality software faster and more costeffectively.

## Platform Engineering Accelerates App Modernization

"By 2026, 80% of software engineering organizations will establish platform teams as internal providers of reusable services, components and tools for application delivery."



Strategic approach to accelerate software \_\_\_\_\_ delivery

Improves developer experience and productivity Frictionless enablement, automation and guardrails

### Platform Engineering Provides:

- Accelerated Development and Deployment
   Platform engineering streamlines the development and deployment process by creating standardized, reusable components and workflows. This reduces the time it takes to bring new features and applications to market.
- 2. Enhanced Developer Productivity

By providing a self-service platform with pre-configured environments and tools, platform engineering reduces the cognitive load on developers. This allows them to focus on writing code and solving business problems rather than managing infrastructure.

3. Improved Scalability and Reliability

Platform engineering ensures your applications are built on a robust, scalable, and secure foundation. This is essential for ensuring high availability, which is critical for modern enterprise applications.

### 1.Cost Efficiency

Standardizing and automating infrastructure management reduces operational costs. Platform engineering helps in optimizing resource utilization and minimizing waste, leading to cost savings.

### 2.Better Compliance and Security

With platform engineering, you can enforce security best practices and compliance requirements consistently across all applications. This reduces the risk of security breaches and ensures that your applications meet regulatory standards.

### 3. Faster Innovation

By reducing the time and effort required to manage infrastructure, platform engineering frees up resources that can be redirected towards innovation. This allows your company to stay competitive and quickly adapt to changing market demands and requirements.



InCycle's **Platform Engineering Accelerator** provided both the expertise and tooling to not only jumpstart our PE project, but also ensure we had a sound business and technology strategy to match!"

**GET STARTED** 

**Apps & Platforms** Leading Engineering Company

### GET STARTED

Accelerate your platform engineering strategy today! Contact us at: info@incyclesoftware.com or visit our website at: www.incyclesoftware.com to learn more. Call 1(800) 565-0510 for immediate assistance.







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Specialist Migrate Enterprise Applications to Microsoft Azure Kubernetes on Azure DevOps with GitHub InCycle is an awardwinning digital innovation company. Recognized for industry leadership and customer impact, InCycle is a eight-time recipient of a prestigious Microsoft Partner of the Year Award.

## PLATFORM ENGINEERING INNOVATION ON MICROSOFT AZURE

By embracing standardization, customers achieve greater efficiency, security, and agility, ultimately supporting application modernization goals more effectively. It also accelerates development cycles by providing clear guidelines and reducing complexity, ultimately driving innovation and improving overall system reliability.



Standardization is a cornerstone of enterprise platform engineering, offering numerous benefits that can significantly enhance your application modernization efforts. By creating "golden paths" and leveraging automation, companies' free engineers from infrastructure complexity and ensure the "right way" is also the easiest way.

### Point and Click "Golden Paths" (Contextualized templates)

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### **PE & Standard Templates**

### **1.Enhance Scalability and Flexibility**

Easily scale your infrastructure business needs, ensuring optimal performance and cost-efficiency.

### 2.Embed Standards

.Net or Java? Azure Serverless instead of Kubernetes? Security, Policy and Governance? Customize templates with preferred technology and best practices baked-in.

### 3. Operational Efficiency

Standardized processes and tools streamline operations, making it easier to manage and monitor applications. This leads to faster incident resolution and improved overall performance.

Standardize Azure WAF Template Elements (sample) **Reference / Target** Workload Level HA/DR **Development and** Starter Architecture **Security & Policies Business Delivery Process** Backlog **Continuity Plan** Reference architecture including HA / DR Architecture Delivery process definition and Migration / Modernization backlog Associate governance requirements, Infrastructure as code, repos, vision diagram, promotion environment approvals, policies, security details, RACI, RBAC, etc. recommendations, process, documentation to achieve SLA artifacts, including CI/CD pipelines, approval gates, unit testing process, for tracking modernization process including work items, effort code scanning, packaging, etc. definition, prerequisites, etc. estimates and milestones More than just infra-as-code Self Service **Governance & Security** Automation **Visibility and Reporting** Internal Developer Platform **GET STARTED** InCycle is an award-Microsoft winning digital Accelerate your platform engineering strategy today! innovation company. Contact us at: info@incyclesoftware.com or visit our website at: www.incyclesoftware.com to Recognized for Digital & App Innovation learn more. Call 1(800) 565-0510 for immediate assistance. Azure industry leadership and customer impact,





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## PLATFORM ENGINEERING INNOVATION ON MICROSOFT AZURE

Accelerate development cycles by empowering developers to consume services through a dedicated **self-service portal**. By scaling engineering capabilities via automation, customers eliminate friction and costly delays between infrastructure, operations and development teams.



### ATE DEVELOPER PORTA 0 Ċ Welcome to the developer portal InCycle provides a ) modern $\mathbf{\uparrow}$ developer 1 portal or can extend and -000 integrate with Featured the portal of Create a new environ for my greenfield pro your choice. Resources Latest webinars Code library and accelerato Data catalogs ₽₽ Comn cesses and best practices documentati

## MODERN DEVELOPER PORTAL

### Self-Service Developer Portals Enables:

#### **Enhanced Productivity** 1.

By providing a centralized interface for accessing tools, services, and documentation, developers can reduce context switching and streamline their workflows.

#### 2. **Self-Service Capabilities**

Developers can independently provision resources and access necessary tools without waiting for approvals, speeding up development cycles.

**Standardized Workflows** Consistent processes across projects reduce errors and improve efficiency, ensuring that best practices are followed.

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### 4. Improved Collaboration

Centralized documentation and resources foster better communication and collaboration among team members text switching and streamline their workflows.

### Scalability and Flexibility The portal supports scalable infrastructure and flexible

development environments, adapting to the evolving needs of the organization.

#### 6 **Faster Onboarding**

New developers can quickly get up to speed with a centralized repository of resources, tools, and documentation, reducing the learning curve and accelerating team contribution.





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# PLATFORM ENGINEERING INOVATION ON MICROSOFT AZURE

Platform engineering enhances developer productivity with a selfservice environment, ensures consistent deployments for Architects and DevOps engineers, and provides Operations and Site Reliability Engineers (SREs) with robust monitoring tools to maintain system stability.



Powered by

# Platform Engineering Accelerates Software Delivery Across

## Architecture Types



## For Developers

Automating "golden path" frees engineers from infrastructure complexity and ensures the "right way" is also the easiest way. This provides developers with a solid foundation and pre-built components that accelerate development. Developers can leverage these resources and automation tools, to streamline their work and reduce the time and effort required to build applications.

### AI Assisted Engineering

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# For Architects

Modern architecture leverages Al to assist architects and development teams by using an Al-driven design canvas to create standardized templates for an organization's template library. It generates infrastructure as code, deployment pipelines, and suggests suitable technologies, thereby accelerating the design, architecture, and delivery of developer templates and infrastructure as code (IaC).

## Automated Deployments



## For Operations

Platform engineering boosts the operations team's efficiency by automating repetitive tasks and offering standardized tools and environments. This minimizes manual intervention, allowing the team to concentrate on strategic, highvalue activities, resulting in more reliable, scalable, and cost-effective infrastructure management. Consequently, the operations team becomes more agile and responsive, better supporting the organization's goals.



InCycle engagements are 100% contextualized for business objectives and technology preferences. InCycle's **Platforming Engineering Accelerator**, **powered by Elevate**, provides a flexible solution to fast-track PE implementation through proven technology, practices and services.

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