

Modernize with Infosys and Red Hat OpenShift AI

The [Infosys Live Enterprise Application Development Platform](#) aims to simplify and accelerate the application modernization and development journey. It does so by focusing on 5 high-level patterns modularly designed to help with different business challenges:

Cloud-native development

To help build resilient, performant applications.

Cloud modernization

To assist migrating and modernizing applications on cloud.

Database modernization

A template for adopting open source and cloud databases.

Legacy modernization

A way to rehost or re-engineer traditional applications.

Application maintenance

Tools to analyze, upgrade, modernize, and maintain applications.

Challenges in application modernization

Modernizing applications has grown increasingly complex. Organizations face aging, premillennial systems without documentation, significant technical debt in newer—but still monolithic—applications, and a growing demand for agile, cloud-native architectures. Plus, many enterprises struggle with fragmented workflows, scarce developer expertise across traditional and modern technologies, and rising costs, which all add further complexity. Organizations need a combination of solutions that accelerate time-to-value by reducing effort and shortening modernization timelines. They need to automate workflows to streamline complex processes, minimize reliance on specialized skills, and lower operational costs.

Together, [Infosys](#) and Red Hat address these issues through a collaborative approach that combines platform-based automation, open source innovation, and artificial intelligence (AI) integration. The [Infosys Live Enterprise Application Development Platform](#), when combined with Red Hat® OpenShift® AI, gives organizations the tools to simplify and accelerate application development and modernization.

Features of the Infosys and Red Hat collaboration

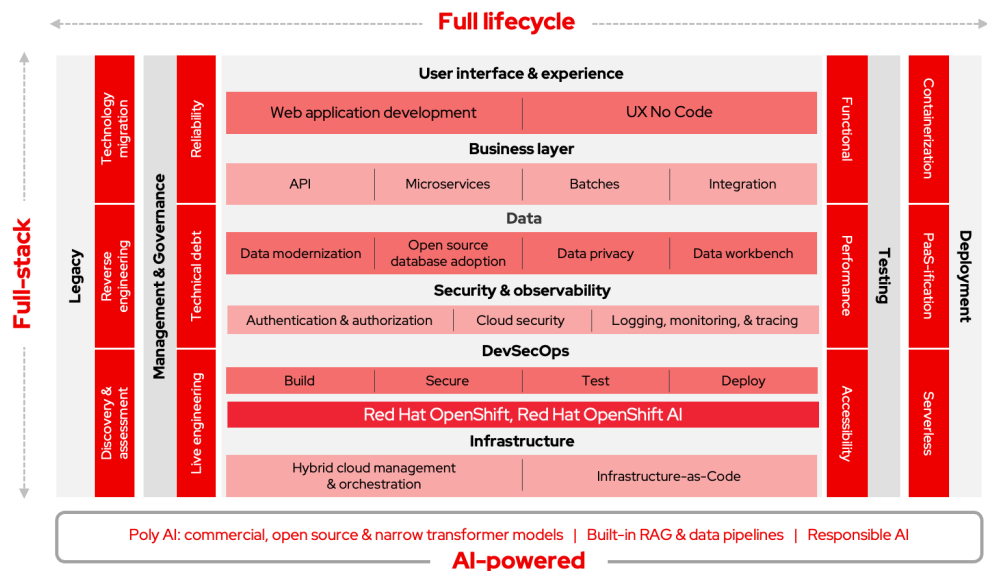


Figure 1. The platform covers the complete technology stack and all lifecycle stages.

This collaboration combines a modular platform with OpenShift AI's portability and open source foundation to optimize modernization efforts and provide the ability to run anywhere, lowering the total cost of ownership (TCO). In combination, this solution helps your organization simplify modernization and adapt to evolving requirements while maintaining safeguards, compliance, and operational efficiency.

The combined benefits of the platform and OpenShift AI are:

Efficiency

Up to 40% reduction in development and testing effort.¹

Agility

Up to 25% faster time-to-value.¹

Quality

Lower technical debt and adherence to best practices.

Simplicity

Abstracted complexity of underlying technology.

Governance

Data-based insights for better predictability.

¹ Based on Infosys customer data.

OpenShift AI powers these modular capabilities by allowing AI models to run efficiently and portably, whether on premise or across multiple cloud environments, while safeguarding proprietary data where necessary. In addition to being able to run hybrid cloud-based large language models, OpenShift AI excels at running lightweight, task-specific models that meet regulatory and on-premise requirements. Its modular, open architecture simplifies modernization workflows by integrating development, safeguards, and deployment processes into a unified platform, reducing effort, cost, and technical complexity for developers and organizations.

Key modernization patterns supported by the platform

- ▶ **Cloud-native development.** Patterns for automated application programming interfaces (APIs), microservices, batch and user interface (UI) app development, testing, and DevSecOps. AI-augmented features include code generation, code auto-completion, and unit test case generation.
- ▶ **Cloud modernization.** Patterns for infrastructure provisioning, cloud assessment and disposition, the migration of applications and data to cloud, and technology upgrades and migration. AI-augmented features include regression test case generation, code translation, architecture to code, and app containerization.
- ▶ **Database modernization.** Patterns for database discovery and assessment, proprietary relational database management systems (RDBMS) to open source or cloud RDBMS, RDBMS to NoSQL migration, and data privacy and encryption. AI-augmented features include migration of DB code, documentation for DB objects, and synthetic data generation.
- ▶ **Mainframe modernization.** Patterns for mainframe assessment, blueprinting and reverse engineering, rehosting to cloud, rules externalization, API-fication, DevSecOps, and real-time data offload from legacy. AI-augmented features include code summarization and rule extraction, and test case generation for legacy code.
- ▶ **Application maintenance.** Patterns for application evergreening, technical debt reduction, application security, and software delivery excellence. AI-augmented features include code summarization and rule extraction, code auto-completion, unit and regression test case generation, and technical debt remediation.

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Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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