

Accelerate application modernization and IT automation with IBM Z and Cloud Modernization Stack

January 18, 2022

IBM Z

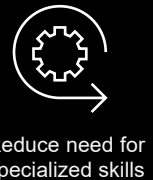
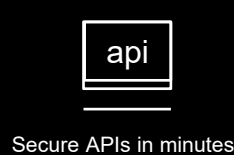
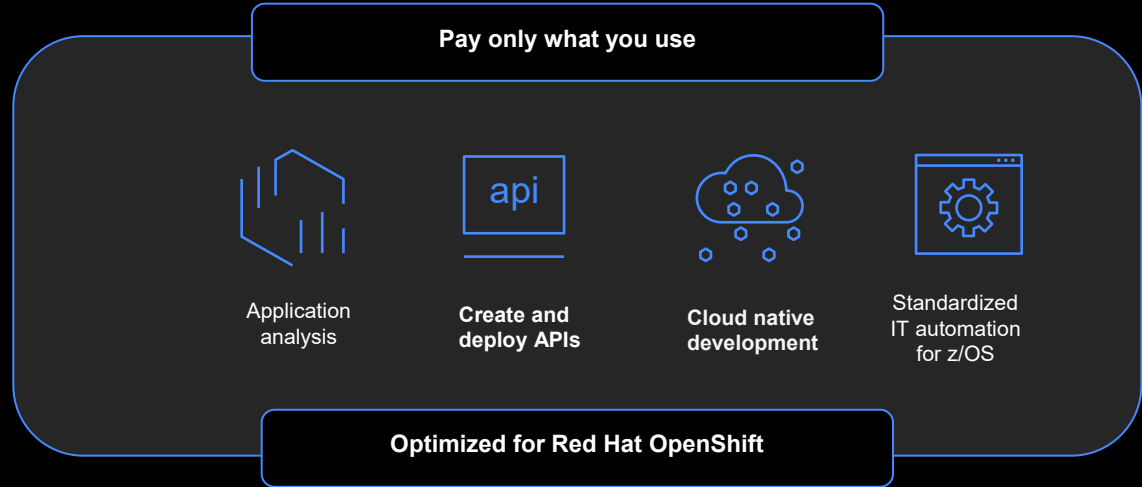


Flexible, integrated application modernization and IT automation platform for IBM Z®

Delivers single flexible platform with the common tools and capabilities needed to modernize z/OS® environments and applications at a lower cost with less risk and faster time to market than migrating applications to public cloud alone.

- Radically simplified development, deployment and configuration experience
- Common, open source tooling, familiar to modern developers
- Flexibly to pay only for the capabilities you use and adjust based on business needs

Accelerate your application modernization and IT automation journey



Flexible, integrated application modernization and IT automation platform for IBM Z[®]



Application Analysis

Reduce risk of application changes

- Visual insights of application dependencies
- Rapid analysis of application changes
- Analysis of COBOL, PL/I, Java[™], and Assembler



Create and deploy APIs

Secure access to applications and data

- Agile development of OpenAPI 3 APIs in minutes
- Secure and scale business critical APIs
- Seamless integration with enterprise API Management



Cloud native development

Increase speed and agility for greater productivity

- Common cloud development experience across enterprise
- Choice of languages including Python, Node.js, Go and Java
- Integration with standard, enterprise-wide CI/CD pipeline



Standardized IT Automation for z/OS

Reduce need for specialized skills, empower developers

- Automated z/OS software management
- Personal z/OS sandbox on Red Hat[®] OpenShift[®]
- Self-serve access to z/OS environments for dev/test

Application analysis

Create and deploy APIs

Cloud native development

Standardized IT automation for z/OS

Flexibly deploy and re-deploy any component



Rapid application analysis

Launch the Web user Interface (UI) to quickly discover and analyze relationships between z/OS applications and to understand the impact of potential changes



Graphic analysis tool

Graphical visualization of COBOL, PL/I, Java and Assembler application artifact dependencies in a web user interface. Drill down for a deeper understanding.



Generate Documentation

Share application information and reports across the organization to make changes with confidence.

Benefits

- Visual insights of application dependencies
- Quick analysis of application changes
- Modernize or making changes with confidence of your COBOL, PL/I, Java, and Assembler applications

Application analysis

Create and deploy APIs

Cloud native development

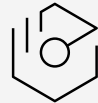
Standardized IT automation for z/OS

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Open API 3 support

Provides enterprises with the confidence that the APIs being built will meet company, and industry standards



Graphical designer

New web based user interface that provides a no code approach to API creation



Containerized deployment

Allows decentralized ownership of API integrations through containerization



Manage and Control

Access to metrics to provide near real-time statistics to tooling such as Prometheus™ to track usage data; for example, how many times an API operations is called or how long those calls take.

Benefits

- RESTful APIs to and from your IBM Z assets in minutes, leveraging OpenAPI standards
- Enhanced role based security model to provide more control to security admins.
- API first functional mapping enhancement creates and API first process which puts the API specification at the heart of the project.

Application analysis

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Bring your own IDE

Edit, build, and debug across a choice of popular integrated development environments (IDE) – Microsoft® VS Code™, Eclipse®, or Red Hat® CodeReady Workspaces



Personal Sandbox

Containerized z/OS environment that enables development and testing of z/OS applications on Red Hat OpenShift running on x86 hardware



Modern editing experience

for COBOL, REXX, PL/I, JCL, and Assembler



Pipeline Agility

Integrates with your existing enterprise CI/CD pipeline

Benefits

- Platform-neutral continuous integration and continuous deployment pipeline (CI/CD) that for z/OS application components, supporting a cloud native development
- Increase speed and agility with a containerized, self-service development and test environment
- Improve efficiency and reduce costs with an enterprise-wide standard toolchain

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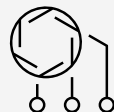
Self-service access

On-demand access to z/OS resources for all developers and users available in your OpenShift catalog



Consistent Hybrid Cloud experience for all services

Unified experience for z/OS and cloud services across hybrid cloud, enabling integration of z/OS workloads and data with other systems and platforms



z/OS automation and management

Orchestrate existing in-house z/OS automation while managing cross-system dependencies with Red Hat Ansible™

Benefits

- Increase productivity of developers and systems programmers
- Provide a framework for integration across all subsystems and ecosystems
- Deliver provisioning of z/OS resources with industry standard skills and practices
- Perform post provisioning activities like monitoring and configuration of provisioned instances

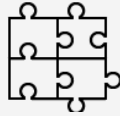
Application analysis

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Flexibly to deploy and re-deploy any component



Solution in a box

Includes the key components needed to accelerate application modernization



Flexible licensing

Ratio table let's you pay only for the tools and capabilities that are used



Mix and match VPCs

Offers most flexibility as you chart your journey. Use what components of the solution you need and swap as you need.

Benefits

- Flexibility of software management, enabling clients to dynamically adjust their usage
- Synergy with IBM Cloud Paks delivering one hybrid cloud platform data modernization, application management, and integration with z/OS
- Includes support on z/OS for modern programming languages (e.g. Python, Node.js, Golang, Java)

Next steps to progress your application modernization and IT automation on IBM Z

- Explore the advantages of using a cloud native approach
- Schedule a briefing
- Book a discovery consultation to explore options for your organization



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Product resources

[Announcement](#)

[Product page](#)

[Explore Z and Cloud Modernization Center](#)

Communities

[IBM Z and LinuxONE Community](#)

Go deeper on application modernization

[IBM Institute for Business Value study "Application modernization on the mainframe"](#)

[Getting Started Journey to Modernization with IBM Z \(Redbook\)](#)

[IBM Cloud Architecture Center](#)

Thank you

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