IBM Z and Cloud Modernization Stack 2022.1.1 delivers a flexible solution for IBM Z modernization with the Red Hat OpenShift platform

At a glance

IBM Z(R) and Cloud Modernization Stack 2022.1.1 delivers a foundational IBM Z application and data modernization solution that can enable clients to integrate and extend their IBM Z systems, applications, and data with hybrid cloud environments through the Red Hat(R) OpenShift(R) Container Platform. The solution can help clients accrue the following benefits:

- Make IBM Z applications and data available to cloud-native applications
- Implement standard ways of working with a cloud-native development and testing experience
- Converge IBM Z systems with the entire enterprise environment on cloud-native, container-based platforms along with associated orchestration and management solutions, supporting the full lifecycle of z/OS(R) application modernization

IBM Z and Cloud Modernization Stack expands on the product formerly named IBM(R) Wazi Developer for Red Hat CodeReady Workspaces with new components and a wider feature set for modernization.

Overview

IBM Z and Cloud Modernization Stack 2022.1.1 delivers a flexible solution with industry-standard tools and capabilities that can enable organizations to modernize z/OS applications and data at a lower cost with less risk and faster time to market than migrating applications to public clouds alone. The solution enables clients to pay for only the tools and capabilities that they use from the following solution components:

- z/OS Connect. Delivers a simple and intuitive way to bring the power of APIs to your mainframe to make Z applications and data central to your hybrid cloud strategy.
- z/OS Cloud Broker. Integrates z/OS-based services and resources into Red Hat OpenShift, which can enable organizations and their users to quickly create, modernize, deploy, and manage applications, data, and infrastructure.
- Wazi Sandbox. Provides a highly flexible and modern development environment to develop and test your z/OS application components in a fully virtualized, containerized, self-service, personal sandbox environment running on Red Hat OpenShift that runs on x86 hardware.

- Wazi Code. Provides a common and consistent experience that is familiar to developers. Whether you are working locally or remotely, Wazi Code lets you choose your favorite integrated development environment (VS Code, Red Hat CodeReady Workspaces, or Eclipse) to edit, build, and debug your applications through rich z/OS language support. Includes interactive access to z/OS systems and integrates with modern source code management systems such as GitHub and GitLab.
- Wazi Analyze. Rapid analysis tool with a graphical web-based user interface that can help developers quickly discover the relationships between the components of their z/OS applications. Offers insights to the impact of changes and can enable you to update with confidence.

IBM Z and Cloud Modernization Stack 2022.1.1 can help organizations gain the following benefits:

- Simple and fast z/OS API development and deployment leveraging OpenAPI 3.0
- Agile enterprise DevOps with open industry-standard developer experiences
- Modern programming languages on z/OS, including Node.js, Python, and Go
- Cloud-native development based on Red Hat OpenShift
- Self-service access to z/OS resources with no special skills required
- Integrations to support data modernization
- Integrations to support application management
- Capability to connect and manage z/OS servers from Red Hat OpenShift

These components can work together to deliver a full-featured z/OS solution for modernization that brings hybrid cloud integration of z/OS systems, a cloud-native developer experience, and a framework driving accelerated application modernization on the Red Hat OpenShift platform.

IBM Z and Cloud Modernization Stack 2022.1.1 runs on Red Hat OpenShift Container Platform and includes limited use entitlement to the Red Hat OpenShift Container Platform.

Key requirements

For details, see the Software requirements section.

Planned availability date

March 15, 2022

Availability within a country is subject to local legal requirements.

Description

IBM Z and Cloud Modernization Stack 2022.1.1 delivers a foundational solution supporting a hybrid cloud strategy for IBM Z modernization. The solution is a collection of products integral to delivering a cloud-native developer experience with industry-standard tooling and processes for use on z/OS systems and the Red Hat OpenShift Container Platform. The solution delivers key technologies for integration of z/OS systems, providing z/OS environments to end users and enabling support for standard DevOps lifecycle and tooling for z/OS.

The following components are delivered in IBM Z and Cloud Modernization Stack 2022.1.1.

z/OS Connect Designer and z/OS Connect Server container images

These components deliver rich new capabilities in support of current API standards and a new containerized deployment option to empower agile development teams to build APIs as part of their DevOps pipelines.

z/OS Connect Designer capabilities include the following:

- OpenAPI 3.0 support that can help enterprises build APIs to meet company and industry standards.
- API-first functional mapping that creates an API-first process that puts the API specification at the heart of the project.
- z/OS Connect Designer, a powerful new web-based user interface that provides a no-code approach to help create APIs. The z/OS Connect Designer is delivered as a standalone container, ready to run in Red Hat OpenShift alongside Wazi for Red Hat CodeReady Workspaces or IBM Cloud Pak(R) for Integration to deliver a cloud-native experience for creating and managing API flows.

z/OS Connect Server capabilities include the following:

- Enhanced role-based security model to provide more control to security administrators.
- The containerized z/OS Connect Server and its provided operators that enable development teams to independently deploy and scale API integrations.
- Access to metrics API facility to provide near real-time statistics to tooling such as Prometheus to track usage data; for example, how many times an API operation is called or how long those calls take.

z/OS Cloud Broker

z/OS Cloud Broker installs as an add-on to the Red Hat OpenShift Container Platform and provides direct interaction with z/OS computing resources or existing platform tools. By using z/OS Cloud Broker, cloud administrators and system programmers can expose z/OS resources in the Red Hat OpenShift Container Platform catalog for consumption by users across an organization's IT enterprise.

z/OS Cloud Broker capabilities include the following:

- Direct self-service access to IBM z/OS computing resources by users of Red Hat OpenShift
- Connectivity to an industry-standard Kubernetes (K8s) container runtime with an emphasis on simplicity, robustness, and portability
- Capability to track and manage z/OS resources within Red Hat OpenShift
- Maximum control over resources and z/OS software subsystem instances
- Access to service catalogs with customized z/OS services that can exploit the multitenancy and rapid elasticity of z/OS
- Agility for z/OS to help businesses protect, integrate, and grow their IT investments into cloud-native development environments

Wazi Family

IBM Wazi (Wazi Code, Wazi Sandbox, and Wazi Analyze) components enable organizations to accelerate hybrid application development and enterprise wide DevOps standardization. Wazi enables clients to empower their developers with a choice of IDE, personal z/OS sandbox, and rapid analysis tool to confidently deliver high-quality changes at a rapid pace. Wazi forms a critical component of clients' hybrid strategy, driving business agility while minimizing the need for specialized skills.

Wazi Code

Wazi Code can help developers unfamiliar with z/OS and the IBM Z mainframe to develop and deliver applications. With Wazi Code, developers can edit, build, and debug COBOL, PL/I, HLASM, and REXX programs with their choice of industry-

standard modern IDEs. It includes interactive access to z/OS systems and integrates with modern source code management tools such as Git and GitLab.

Wazi code has a custom plug-in and devfile registry support. Mainframe developers can have a feature-rich mainframe development package that includes the following capabilities:

- Rich language support for COBOL, PL/I, HLASM, REXX, and IBM Job Control Language (JCL) using IBM Z Open Editor
- Connectivity to IBM Z host through a command-line interface or GUI
- Building COBOL, PL/1, REXX, and HLASM programs with user build

IDE options include Wazi Developer for VS Code, Wazi Developer for Workspaces, and Wazi Developer for Eclipse.

Wazi Developer for VS Code extends the functions of Microsoft™ Visual Studio (VS) Code to provide z/OS developers with a familiar and straightforward edit, build, and debug experience. In addition, developers have the option to integrate numerous other extensions from the Microsoft VS Code marketplace.

Wazi Developer for Workspaces is a development environment that provides a modern experience with an in-browser IDE that can be used to code, build, test, debug, and run applications. It runs in a Red Hat OpenShift Container Platform, providing a consistent, security-rich, and zero-configuration development environment that interacts with the IBM Z platform. Powered by the open-source projects Zowe™ and Red Hat CodeReady Workspaces, Wazi Developer for Workspaces offers a streamlined onboarding process to give mainframe developers the tools they need for the task at hand, enabling them to create a customizable environment. With a single click, developers can provision the workspace, eliminating the need for local environment configurations.

Wazi Developer for Eclipse is a modern lean IDE with program understanding, edit, debug, and build automation capabilities, enabling a platform-neutral continuous integration and deployment pipeline that includes z/OS application components. It is a toolset for z/OS development teams that plan to transform and unify their software delivery practices around modern source code management systems such as Git and IBM Engineering Workflow Management.

Wazi Developer for Eclipse provides an Eclipse-based common workbench and tools for the following:

- Development of COBOL, PL/I, REXX, and Java™ programs
- Interactive access to z/OS systems
- Integration with Git repositories, IBM Engineering Workflow Management, and the IBM Z Development and Test Environment
- Plug-in development environment

Capabilities in version 2.0 include Zowe 2.0 readiness to utilize new Zowe CLI 7.0 capabilities and integrations.

Wazi Developer for Workspaces

Capabilities include the following:

- OpenShift on Linux[(R)] on Z is now supported by providing multi-architecture image bundles that transparently enable deployment on all supported architectures.
- IBM Certified Containers are supported.
- Support is added for editing and running Ansible[(R)] and Python automation.
- Simplified and faster deployment can be achieved with the IBM Operator Catalog.
- Support for air gap installation is available to work offline.

Wazi Developer for Eclipse

With IBM Dependency Based Build, you can eliminate the need to scan for dependencies on the host.

Wazi Sandbox

Wazi Sandbox provides a fully virtualized containerized z/OS environment that enables development and testing of z/OS applications on Red Hat OpenShift running on x86 hardware.

Capabilities in version 2.0 include the following:

- IBM Extended Application Developer Controlled Distribution (ADCD) for z/OS is updated to ADCD z/OS V2R4 May Edition for 2021 with updated software packages.
- IBM Certified Containers are supported.
- Simplified and faster deployment can be achieved with the IBM Operator Catalog.
- Support for air gap installation is available to work offline.
- Improved user experience enables simplified connection to modern z/OS services through exposed z/OS ports.

Wazi Analyze

Wazi Analyze can help developers to discover relationships between the components of their z/OS applications and to understand the impact of potential changes. It provides a graphical visualization of COBOL, PL/I, Java, and Assembler application artifact dependencies in a web user interface.

Capabilities in version 2.0 include the following:

- Enhanced impact analysis capability to enable developers to scan and analyze C programs, in addition to COBOL, PL/I, Java, and Assembler.
- Capability to enable developers to run Wazi Analyze container on Linux on Z.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the IBM Accessibility Conformance Report Request website.

Statement of general direction

The IBM Z and Cloud Modernization Stack leverages Red Hat OpenShift as the enterprise-ready Kubernetes container platform supporting a client's hybrid cloud strategy. For added client choice, IBM intends to make Red Hat OpenShift Container Platform support available on IBM z/OS with IBM z/OS Container Extensions (zCX) in addition to the many server platforms already supported today.

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Reference information

For more information about IBM Z and Cloud Modernization Stack, formerly known as IBM Wazi Developer for Red Hat CodeReady Workspaces, see Software Announcement AP21-0246, dated July 6, 2021.

Program number

Program number	VRM	Program name
5900-A8N	2022.1.1	IBM Z and Cloud Modernization Stack

Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage^(R) and Passport Advantage Express website.

Publications

None.

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

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For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the IBM Systems Lab Services website.

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Submit questions or comments to techuid@us.ibm.com.

For additional details, see the IBM TechU website.

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For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the IBM Security Expert Labs website.

Technical information

Specified operating environment

Software requirements

For details, see the Software Product Compatibility Reports website.

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Additional IBM support

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Planning information

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Part number description	Part number
IBM Z and Cloud Modernization Stack Virtual Processor Core License + SW Subscription & Support 12 Months	D09F1ZX
IBM Z and Cloud Modernization Stack Virtual Processor Core Annual SW Subscription & Support Renewal	E09F0ZX

Part number description	Part number
IBM Z and Cloud Modernization Stack Virtual Processor Core SW Subscription & Support Reinstate 12 Months	D09F4ZX
IBM Z and Cloud Modernization Stack Virtual Processor Core Monthly License	D09F2ZX
IBM Z and Cloud Modernization Stack Virtual Processor Core Subscription License	D09F3ZX

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IBM Z and Cloud Modernization Stack for Linux on IBM Z Virtual Processor Core License + SW Subscription & Support 12 Months	D09F6ZX
IBM Z and Cloud Modernization Stack for Linux on IBM Z Virtual Processor Core Annual SW Subscription & Support Renewal	E09F5ZX
IBM Z and Cloud Modernization Stack for Linux on IBM Z Virtual Processor Core SW Subscription & Support Reinstate 12 Months	D09F9ZX
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IBM Z and Cloud Modernization Stack for Linux on IBM Z Virtual Processor Core Subscription License	D09F8ZX

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Program number	License Information document title	License Information document number
5900-A8N	IBM Z and Cloud Modernization Stack	L-NADN-C9AHEB

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the License Information documents website for more information.

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5900-A8N	IBM Z and Cloud Modernization Stack	L-NADN-C9AHEB

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Volume orders (IVO)

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Educational allowance available

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