

IBM Z Development and Test Environment 13.0 delivers Docker provisioning and IBM z/OS 2.4 Application Developers Controlled Distribution

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Overview

IBM Z^(R) Development and Test Environment is an IBM Z development and test platform that runs on the x86 platform. Z Development and Test Environment 13.0 enables mainframe operating systems, middleware, and other software to run on IntelTM and Intel-compatible platforms.

Z Development and Test Environment 13.0 can be used for the following :

- Development and testing of application function and application maintenance
- Investigation and verification of middleware levels (version-to-version upgrades)
- Prototyping application architectures
- Demonstration of application function
- Internal employee education

Z Development and Test Environment 13.0 is available in three editions :

- Z Development and Test Environment Personal Edition. Enables a single user to run an IBM Z distribution on a personal computer.
- Z Development and Test Environment Enterprise Edition. Enables enterprises to host an IBM Z distribution on low-cost, Intel-based x86 machines. Enterprise Edition provides a web-based interface. You can extract, deploy, and manage the application images from an existing IBM Z or IBM Application Developers Controlled Distribution (ADCD) package.
- Z Development and Test Environment with Parallel Sysplex^(R). Can be used to enable a Sysplex environment that is running within z/VM^(R).

Each edition has its own separate installer.

Z Development and Test Environment 13.0 Enterprise Edition enhancements include:

- UI aligned to latest IBM^(R) Carbon Design System
- Docker provisioning capability

Existing and enhanced features include:

- Refactoring RESTful APIs.

- Approach^(R) to import existing Z Development and Test images has changed to be consistent with how other images are built by enabling import of components.
- IBM ADCD.
- Red Hat^(R) OpenStack and Linux^(R) provisioning capability.

Z Development and Test Environment 13.0 Personal Edition includes:

- IBM System z^(R) Personal Development Tool 1.11.x
- ADCD

Z Development and Test Environment 13.0 with Parallel Sysplex includes:

- System z Personal Development Tool 1.11.x
- ADCD

Z Development and Test Environment 13.0 can be used only for development, testing, employee education, and demonstration of applications that run on IBM z/OS^(R). It cannot be used for production workloads of any kind or for robust development workloads, such as, without limitation, production module builds, preproduction testing, stress testing, or performance testing. The load module or object code compiled on Z Development and Test Environment cannot be promoted to production.

Z Development and Test Environment 13.0 provides a continuous delivery and support model that delivers fixes and functional enhancements as a set of modification-level updates. This enables clients to obtain quick and easy access to functional enhancements.

Key requirements

For details, see the [Software Product Compatibility Reports](#) website.

Planned availability date

October 30, 2020

Description

Z Development and Test Environment 13.0 Enterprise Edition supports cloud integration to speed up environment provisioning time to private or public cloud. Although the first deployment to the cloud takes the same amount of time as deploying images on-premises, the subsequent deployment or provisioning can be performed in less than 30 minutes.

Z Development and Test Environment 13.0 Enterprise Edition provides RESTful APIs for component and image creation, and for image deployment. For developing web applications, clients can use the RESTful APIs to create their own scripts or embed them into their own DevOps pipeline or tools.

Docker provisioning

Z Development and Test Environment 13.0 Enterprise Edition offers support for provisioning a z/OS environment running on Z Development and Test 13.0 in a Docker environment. You can configure your Docker daemon to support HTTPS using the Transport Layer Security (TLS) cryptographic protocol, and the Z Development and Test Environment 13.0 Enterprise Edition can push a container image to it and enable you to run up to a maximum of five containers, each providing a z/OS environment with a maximum of 100 ports available for services running on that

z/OS. This provides an easy way to provision an isolated z/OS environment in a container that utilizes features of Docker technology.

The UI is aligned to Carbon Design System 10 for improved user experience. Z Development and Test Environment 13.0 Enterprise Edition provides a completely redesigned web user interface using Carbon Design System 10, the IBM open source design system for digital products and experiences. In addition to supporting Docker provisioning, the UI provides the same capabilities as the previous versions but is redesigned to improve the user experience and be more scalable for supporting more artifacts within the tooling and future endeavors.

Z Development and Test Environment 13.0 Enterprise Edition features include the following:

- The web-based interface offers support for extracting data sets on Dsname level expressions, giving a more intuitive experience for those accustomed to IBM Interactive System Productivity Facility (ISPF).
- Additionally, data set extraction is made easier with IBM Application Discovery. This integration can be used to determine what data sets are needed for a given application, making extractions more intelligent and fine-grained.
- Root password is no longer mandatory for deployment; clients can choose to use a non-root userid that has pseudo-permissions to perform certain aspects of the deployment on behalf of the root ID.
- IBM Automatic Initial Program Load (IPL) is now available for all application image types.
- Users have the option to choose allocated Central Processor (CP) and RAM for the target system.
- Flashcopy of volumes during extraction is supported to help improve integrity of the volume and data set contents.
- Unused space is removed from extracted volume files, which strengthens security and results in smaller sizes and higher speeds of extracted volumes.
- Support is offered for secure file transfer between a source IBM Z system to the storage system as well as the target Z Development and Test Environment 13.0 system and the storage system.

This release of the Z Development and Test Environment offers IBM Z compatibility and includes IBM System z Personal Development Tool 1.11.x software, which provides the following on all editions:

- IBM z15™ architecture support
- Modernization of z Personal Development Tool Virtual DASD support
- Support for IBM Open System Adapter (OSA) for Kernel-based Virtual Machine (KVM) guests and additional OSA modernization for System z Personal Development Tool 1.11.x
- Support for free ZIIPs
- Support for the IBM Modified Indirect Data Address Words (MIDAW) facility
- Support for coupling facility control code (CFCC) level 22
- Support for IBM z/OS 2.4

All editions of Z Development and Test Environment 13.0 are packaged with an updated and preconfigured set of IBM z/OS software for development usage. The software includes:

- z/OS 2.4, which includes subfeatures
- IBM WebSphere Application Server for z/OS, 9.0
- IBM CICS^(R) Transaction Server 5.4 and 5.5
- IMS V14.1 and 15.2
- IBM Db2^(R) for z/OS, 11.1 and 12.1
- IBM MQ for z/OS, 9.1
- IBM Java™ SDK for z/OS, 7.1 and 8.0

- IBM Enterprise COBOL 6.3
- IBM Enterprise PL/I 5.3
- IBM Rational^(R) COBOL Runtime 6.0.1 (EGL)
- IBM Debug for z/OS, 14.2.3
- IBM OMEGAMON Performance Management Suite for z/OS, 5.5

The included IBM software products are provided for development purposes only, on an as-is basis. Technical support and APAR/PTF deliverables are not provided for the included software as listed in the Supporting Programs section of the product license with the purchase of the Z Development and Test Environment 13.0.

All editions of Z Development and Test Environment 13.0 include the z/OS components of additional IBM DevOps for the Enterprise products to aid in performing integrated software delivery scenarios with Z Development and Test Environment 13.0. These components include:

- IBM Developer for z/OS, 14.2.3 components for easy integration of Z Development and Test Environment 13.0 with IBM Developer for z Systems^(R) to enable off-host edit, compile, and debug. Note that use of these components requires purchase of licenses of IBM Developer for z Systems.
- IBM Engineering Workflow Management 7.0 z/OS components, for easy integration of Z Development and Test Environment 13.0 with IBM Engineering Workflow Management to enable off-host preproduction builds. Note that use of these components requires purchase of appropriate IBM Engineering Workflow Management 7.0 licenses.
- IBM UrbanCode^(R) Deploy Agent for z/OS Workloads 7.0.5 for easy deployment of z/OS applications onto Z Development and Test Environment 13.0 for development and test activities.
- Host needed for IBM Wazi Developer for Red Hat CodeReady Workspaces has also been updated, which includes products and components such as IBM Debug for z/OS, IBM Dependency Based Build (DBB) toolkit, IBM Z Open Automation Utilities (ZOAU), IBM Explorer for z/OS, IBM Z Open Development (ZOD) Eclipse Client, IBM Z Open Editor, ZoweTM Visual Studio Code (VSCoDe) Extension, IBM Z Open Debug, IBM User Build, and IBM Remote System Explorer (RSE) API plug-in for Zowe CLI.

Migration considerations:

- Clients can run an update from a previous version of Z Development and Test Environment tools.
- Clients using REST APIs must modify their code to work with the refactored APIs.
- Existing API for import images has been replaced with component import.

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.

Reference information

For more information about Z Development and Test Environment, see Software Announcement [218-117](#), dated March 13, 2018.

Program number

| Program number | VRM | Program name |
|-----------------------|------------|--|
| 5725-G39 | 13.0.0 | IBM Z Development and Test Environment |

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^{\(R\)}](#) website.

Publications

None.

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of the lab-based software services team and the business consulting, project management, and infrastructure expertise of the IBM Global Services team. Also, IBM extends the reach of IBM Software Services through IBM Business Partners to provide an extensive portfolio of capabilities. IBM provides the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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Technical information

Specified operating environment

Software requirements

For details, see the [IBM Software Product Compatibility Reports](#) website.

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Planning information

Packaging

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Ordering information

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This program is only available through Passport Advantage. It is not available as shrinkwrap.

Passport Advantage

Passport Advantage client: Media pack entitlement details

Clients with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

| Media pack description | Part number |
|--|-------------|
| IBM Z Development and Test Environment Personal Edition V13.0 Multilingual Hardware Key Media Pack | BT0PGLL |

Charge metric

The charge metrics for this licensed product can be found in the following License Information document:

| Program identifier | License Information document title | License Information document number |
|--------------------|--|-------------------------------------|
| 5725-G39 | IBM Z Development and Test Environment with Parallel Sysplex Version | L-JWOG-BS7SRC |
| | IBM Z Development and Test Environment Personal Edition Version | L-JWOG-BS7SA8 |
| | IBM Z Development and Test Environment Enterprise Edition Version | L-JWOG-BS7RCU |

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License Information number

The following License Information document applies to the offering in this announcement:

| Program identifier | License Information document title | License Information document number |
|---------------------------|--|--|
| 5725-G39 | IBM Z Development and Test Environment with Parallel Sysplex Version | L-JWOG-BS7SRC |
| | IBM Z Development and Test Environment Personal Edition Version | L-JWOG-BS7SA8 |
| | IBM Z Development and Test Environment Enterprise Edition Version | L-JWOG-BS7RCU |

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Limited warranty applies

Yes

Limited warranty

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Volume orders (IVO)

No

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Variable charges apply

No

Educational allowance available

Not applicable.

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