

Product Brief

Endevor®

The Bedrock of Mainframe DevOps

Key Benefits

- **Future-proof with multiple configurations:** Support for risk-managed Git adoption and modernization.
- **Freedom of choice:** Use a wide range of IDEs and modern DevOps tools, without disruption.
- **CI/CD interoperability:** Hybrid pipelines using Zowe or your Enterprise Git server.
- **Developer empowerment:** Developer-managed builds use virtual or real LPARs.

Key Features

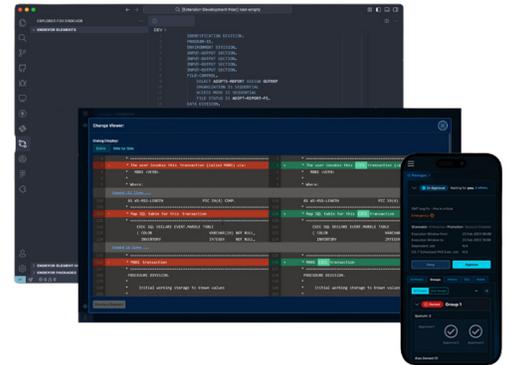
- **Enterprise Git repository integrations:** Develop in Git, synchronize to Endevor for build and lifecycle automation, and collaborate with on-host developers.
- **Continuous integration and delivery workflows:** Drive Endevor from popular and open-source CI/CD tools to automate and visualize mainframe promotion processes using the Zowe CLI-conformant plugin for Endevor.
- **Code4z (VS Code) integration:** Connect and work directly with Endevor inventory locations and elements using Explorer for Endevor.
- **Team Build:** Create decoupled builds from Endevor processors or JCL. Use along with Bridge for Git to build unmapped branches or stand-alone for Git-native workflows.
- **Dynamic Environments for Parallel Development:** Self-service creation of isolated development environments preventing collisions with other feature work.

At a Glance

With a rich tradition of research and development investment and market leadership, Endevor® is the foundation for mainframe DevOps. By enabling the adoption of Git and DevOps toolchains, as well as the use of contemporary IDEs like Code4z, Endevor offers a low risk, modernize-in-place approach to z/OS software delivery. It enables the next-generation of talent to work side-by-side with career mainframers, each using their tools of choice.

This freedom enables organizations to attract and retain in-demand talent while realizing all the benefits of enterprise IT alignment with skills portability and streamlined cross-platform application delivery, for example. With Endevor, you deliver better quality code, reduce time to market, and comply with demanding internal and external regulations.

Contemporary User Interfaces



Business Challenge

Businesses are enjoying productivity and velocity gains by adopting Agile and DevOps processes in their distributed shops. At the same time, they are realizing that z/OS remains a key part of their infrastructure. To realize the promise of Agile and DevOps, they must include mainframe in their organizational transformations.

Integrate Mainframe Pipelines to Enterprise Tools

Organizations want to leverage the same tools across the enterprise and must determine how to integrate z/OS. Building on foundational technology is critical to improving velocity without reinventing years of investment in proven automation.

Support the Next Generation of Mainframe Developers

Attracting and retaining the next generation of mainframe developers means providing an environment that is familiar and productive for those experienced with modern DevOps and Agile tooling, while at the same time collaborating with those that prefer traditional mainframe development tools and practices.

Software Development Must Support Agile, Regardless of Interface

Agile demands work be done in isolation and in parallel, with facilities to easily merge and integrate changes on demand.

Supported Environments

- **IBM z/OS:** All IBM-supported releases of z/OS
- **Enterprise Git Servers:**
 - **GitHub** 3.15 and higher
 - **Bitbucket** 8.14.0 and higher
 - **GitLab Enterprise Edition** 18.4.1 and higher
 - **Azure DevOps Server** 2022.22 and higher
 - **Gitea** 1.24.6 and higher
 - **Java** 17 or 21 on Linux, z/Linux, z/OS, Docker and Docker Compose, Kubernetes and OpenShift

Related Products and Solutions

- **Code4z:** The market-leading DevX for z/OS applications that reduces friction and keeps developers in the flow state to drive velocity, quality, and agility.
- **Broadcom Mainframe DevOps Suite:** Everything a developer needs for z/OS application development, including Endeavor and Code4z. Includes z/OS tooling, along with modern interfaces for file manipulation, fault analysis, debug, API enablement, and more.

Solution Overview

Endeavor speeds development and deployment by providing automated and comprehensive capabilities throughout the software development lifecycle. The Endeavor ISPF, IDE, Zowe CLI and Enterprise Git interfaces, along with automated build and deploy capabilities, help developers quickly transition from requirements to ready-for-test software. Business-driven, customizable lifecycle paths with end-to-end auditing provide comprehensive governance. Using REST API and Webhook capabilities, the Zowe CLI plugin and the award-winning Endeavor Bridge for Git allow for easy two-way integration to the standard enterprise toolchain, improving velocity and time-to-market. With secured and thorough inventory management, including software bill of materials (SBOM) generation, business-driven authorization requirements, and electronic approval capabilities, Endeavor protects software assets and maintains compliance standards, keeping organizations equipped to address the most rigorous software change audits.

Critical Differentiators

Endeavor is the most widely used software change management solution for mainframe application software and associated assets. Customizable processes drive automated builds, impact analyses, source code versioning, change tracking, authorization, and deployment used to mandate and govern policy-driven software change tasks.

To modernize processes and practices, organizations need to integrate mainframe and distributed platforms. With Bridge for Git, Team Build, the Zowe CLI plugin, and Code4z IDE extensions, Endeavor bridges the mainframe and distributed domains. By providing so many powerful ways to work with code, Endeavor is the most comprehensive solution on the market. Organizations structure how they manage individual applications using the most appropriate method and without incurring additional cost.

Endeavor Configurations

Capabilities	Configurations		
	Traditional	Hybrid	Git-Native
Version Control	Endeavor	Endeavor and Enterprise Git (With Endeavor Bridge for Git)	Enterprise Git
Code Editing	ISPF, Eclipse	ISPF, Eclipse, VS Code, CDEs, and others	Eclipse, VS Code, CDEs, and others
Build and ship	Endeavor	Endeavor	Endeavor (With Team Build)

Broadcom Mainframe Division

The Broadcom Mainframe Division continues to drive the next horizon of open, cross-platform, enterprise innovation. We specialize in DevOps, security, AI/ops, and infrastructure software solutions that allow customers to embrace open tools and technologies, make mainframe an integral part of their cloud, and enable innovation that drives business forward. We are committed to forging deep relationships with our clients at all levels. This goes beyond products and technology to partner in creative ways that support customer success.

For more information, visit the [Endeavor product page](#) at [broadcom.com](#).

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