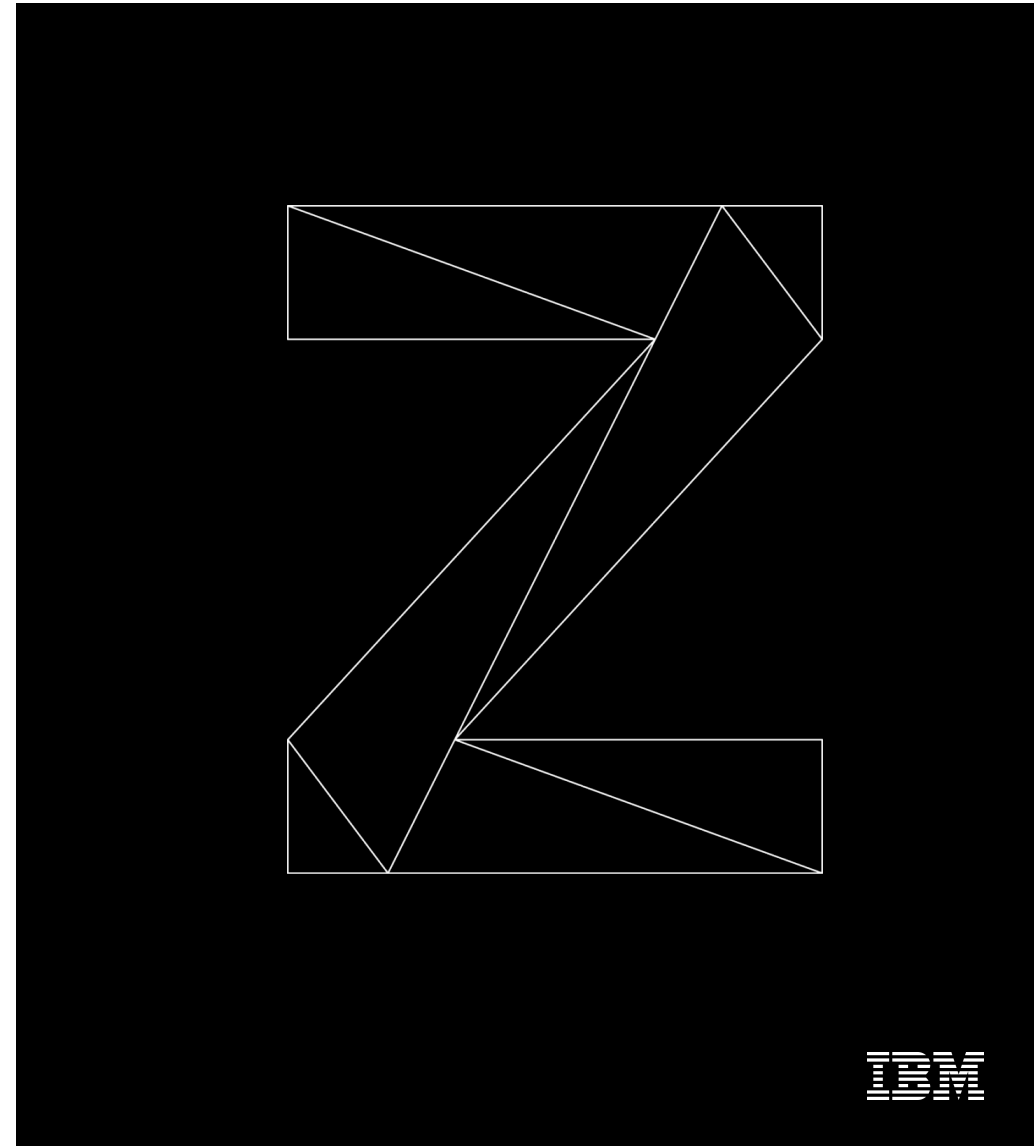


# DevOps

---

Rosalind Radcliffe  
IBM DE, Chief Architect for DevOps for Enterprise  
Systems  
rradclif@us.ibm.com  
@RosalindRad



# End to End DevOps

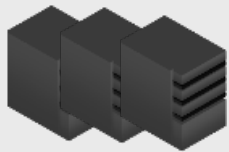
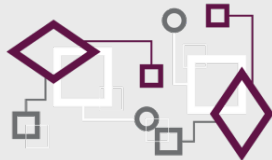
## DevOps



HYBRID CLOUD

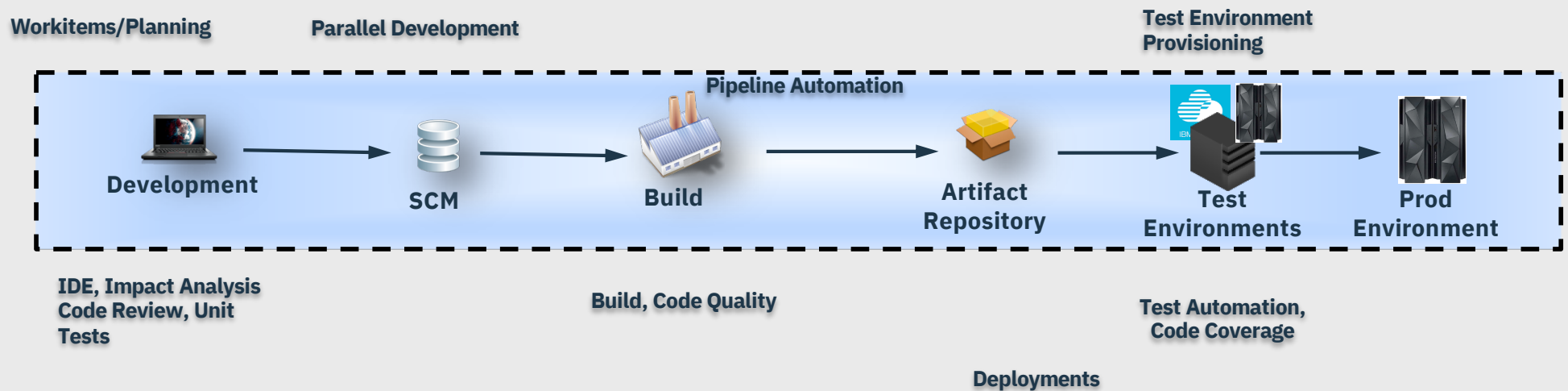


API Management



# End to End Strategy

- End to End strategy sets direction for steps along the way
- Single DevOps pipeline or as close as possible improves collaboration and reduces friction between teams
- Removing the differences that provide no value from z/OS to allow it to be part of any pipeline
- Automated Testing at all levels is what provides the increased velocity with increased quality

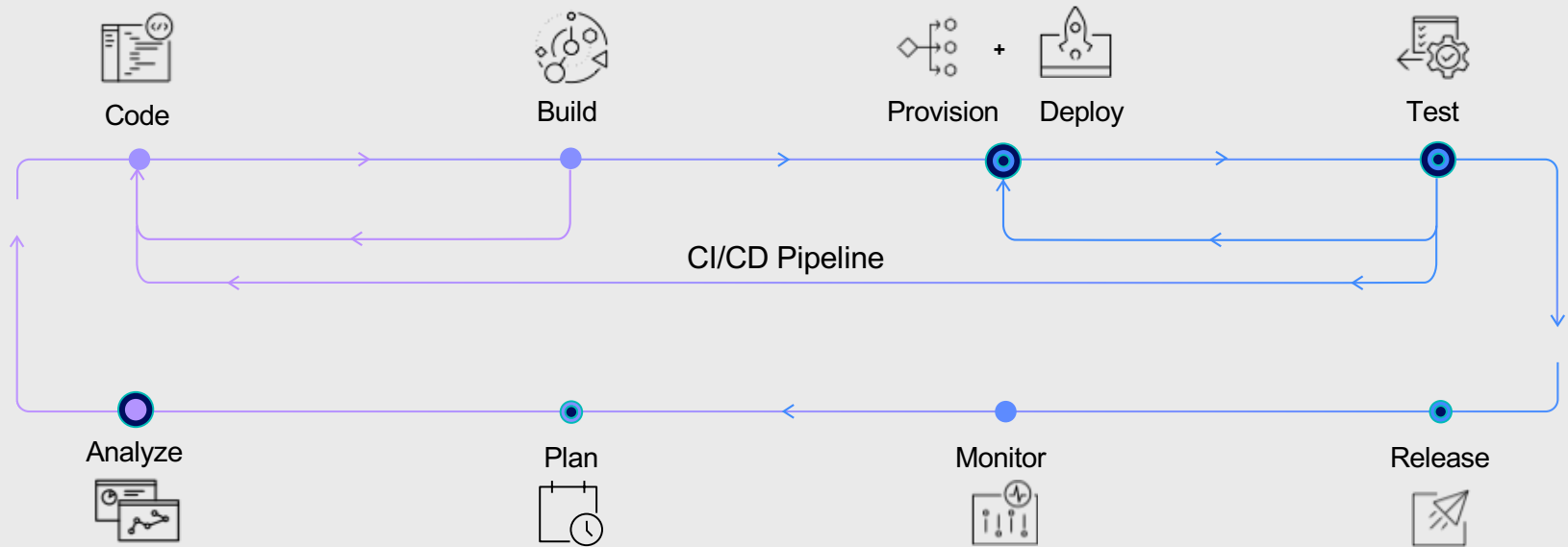


LEGEND

- Analyze
- Feedback, approvals

**Note:** Starting from the upper left, products and significant capabilities appear once, the first time they are used in the pipeline. Products and capabilities are used at multiple points.

# What makes up the pipeline



# Standardization

## Automation and Pipeline

Bring z/OS into your existing automation with common open source tools.

Bring z/OS into your existing pipeline with common open source tools.



Azure Boards



Azure Repos



Azure Pipelines



Azure Test Plans



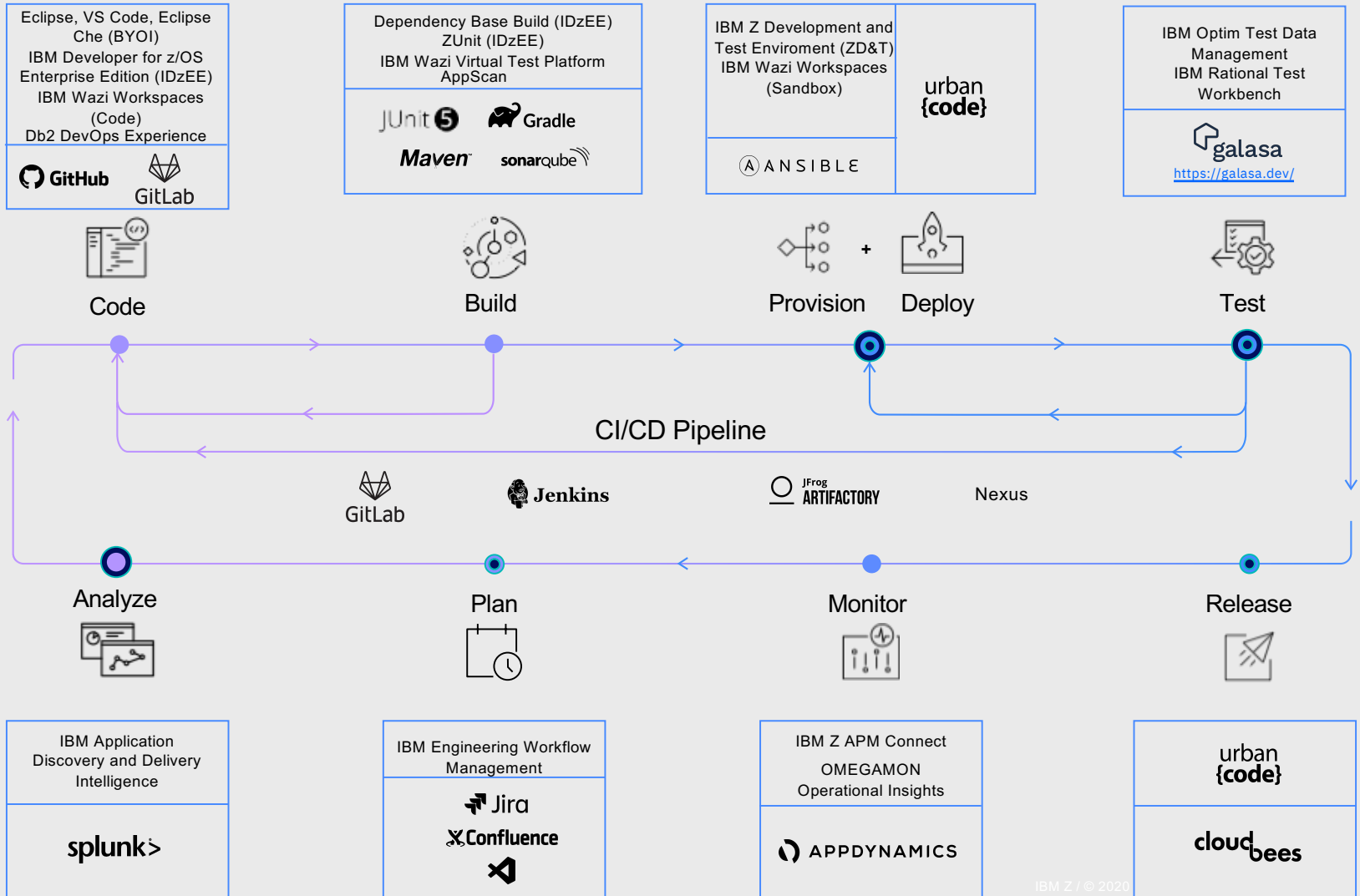
Azure Artifacts



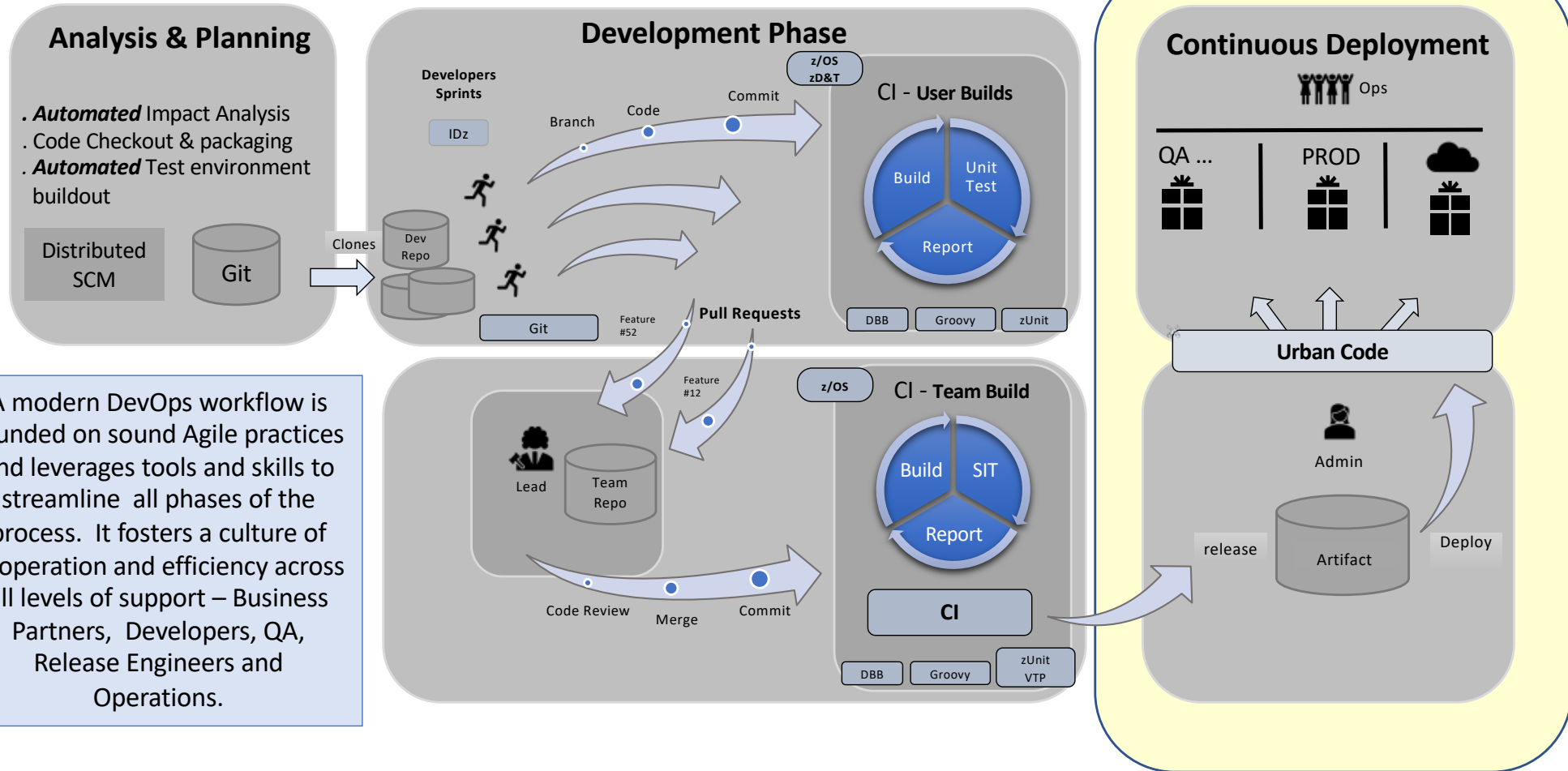
**LEGEND**

- Analyze
- Feedback, approvals

**Note:** Starting from the upper left, products and significant capabilities appear once, the first time they are used in the pipeline. Products and capabilities are used at multiple points.



# Modern Z Development



A modern DevOps workflow is founded on sound Agile practices and leverages tools and skills to streamline all phases of the process. It fosters a culture of cooperation and efficiency across all levels of support – Business Partners, Developers, QA, Release Engineers and Operations.

## Everyone Plays a part

**1.DevOps is about transforming application development and delivery in order to accelerate digital innovation.**

*So DevOps is a topic for both business and IT roles in the organization.*

**2.You don't buy DevOps, you do DevOps.** *DevOps is an approach, a mindset – a combination of culture, process and technology (including infrastructure, tools and services).*

**3.DevOps is not only about the hand-off between Development and Operations.**

*DevOps is about applying lean and agile principles across the application delivery lifecycle (biz-dev-sec-ops) to achieve continuous delivery of digital innovation. Key concepts: automation, feedback loops.*



# Resources

## IBM Wazi for Red Hat® CodeReady Workspaces

IBM Marketplace

[www.ibm.com/products/wazi-for-red-hat-codeready-workspaces](https://www.ibm.com/products/wazi-for-red-hat-codeready-workspaces)



## IBM zDevOps

All you need to know about Enterprise DevOps: case studies, communities, resource library, product list, education and much more

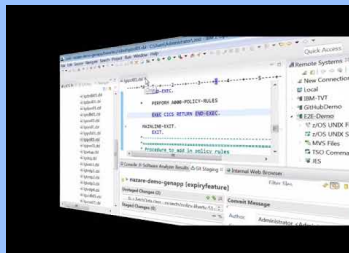
<https://www.ibm.com/it-infrastructure/z/capabilities/enterprise-devops>



## The Open Developer experience for the mainframe demo

A demo illustrating how to use CI/CD practices, common tools, and a collaborative coding environment to bridge the gap between mainframe and other platforms

<https://www.youtube.com/watch?v=vRxdhlaRqA0&feature=youtu.be>



## IBM Wazi VTP Demo

See Wazi VTP in action with this demo

[https://mediacenter.ibm.com/media/t/1\\_tbcimobz](https://mediacenter.ibm.com/media/t/1_tbcimobz)



## IBM Wazi VTP Expert Blog

### Expert blog

<https://developer.ibm.com/mainframe/2020/05/27/ibm-wazi-virtual-test-platform/>



# Additional Resources

<https://galasa.dev>

ZD&T

Product page <https://www.ibm.com/products/z-systems-development-test-environment>

Overview

Video [https://www.youtube.com/watch?v=62N6NH1W5Q4&feature=emb\\_logo](https://www.youtube.com/watch?v=62N6NH1W5Q4&feature=emb_logo)

Technical video

library <https://developer.ibm.com/mainframe/zsystemstechzone/> (click on ZD&T tab)

Latest

blog <https://developer.ibm.com/mainframe/2020/03/09/z-development-and-test/>



## Books to read

New one – Coming soon –  
Software Quality for the  
Enterprise

# Resources

Continuing your 'Understanding DevOps' journey  
DevOps from APIs to z Systems for Dummies

– <https://ibm.biz/apis2zdevops>

Other Resources

Phoenix Project Book

DevOps Handbook

<https://puppet.com/resources/whitepaper/state-of-devops-report>

<https://itrevolution.com/book/mythbusting-devops-enterprise/>

<https://itrevolution.com/book/tactics-leading-change/>

<http://dearauditor.org>

