

# Creating, Updating, and Testing IMS Applications in a DevOps World

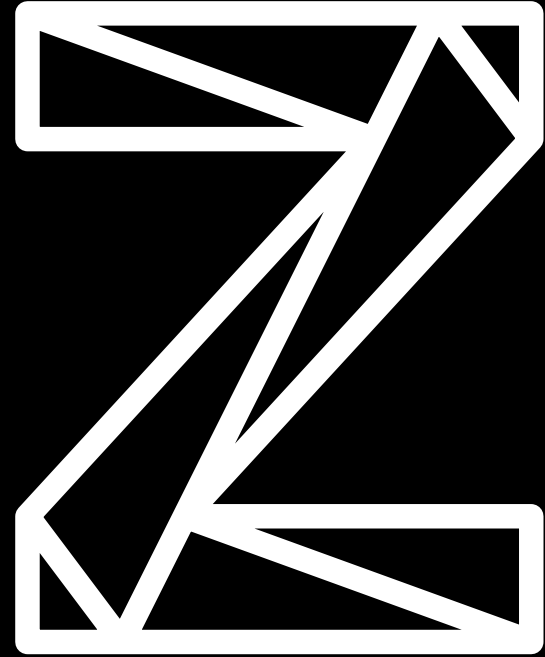
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# Agenda

Reminder – what we've already covered

What is missing?

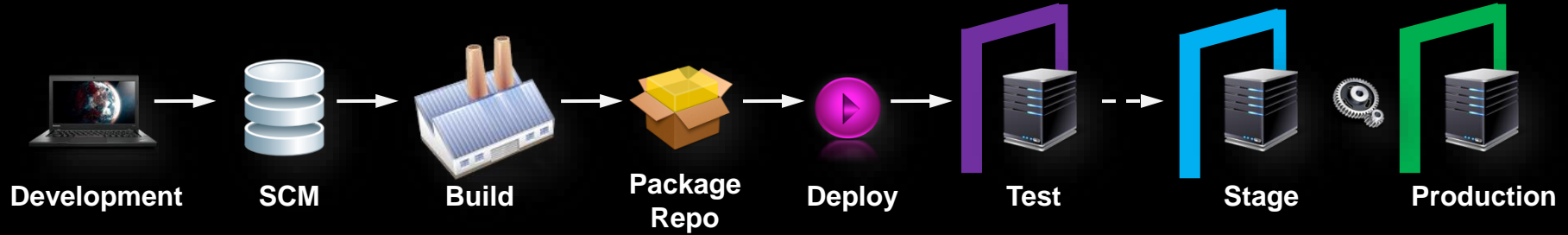
Pain points for IMS applications

- Application developer
- DBA
- System programmer

Updated workflow

Demo

# Pipeline focused on application changes



## What about IMS changes?

- How can application developers include associated IMS changes in the pipeline?
- How can DBA's ensure site standards are followed?

# Move IMS changes at the same speed as application changes



**Deb**

z/OS Application Developer

*Make required IMS changes as part of application changes*

*Self-provision a test environment on demand*



**Christina**

DBA

*Establish and enforce rules and processes*

*Avoid human errors*

*Spend time on innovative projects vs simple, repetitive work*



**Stan**

IMS System Programmer

*Enable self-service provisioning of test environments for application developers*

*Ensure associated IMS changes are defined as part of each application*



**Richard**

Release Engineer

*Build fast & reliable pipeline for all related changes*



**Doug**

Z IT Operations Manager

*Manage expense of multiple development systems on Z*

# Application developer pain points



Must open a ticket to DBA for DBD/PSB changes, then wait

Repeat, if not correct

Lose momentum in development process

Lower priority work is done before higher priority while waiting

Must open a ticket to the system programmer to

- Request new DBDs and PSBs associated with an application change
- Provide a test environment that accurately reflects the current state of an application, including IMS changes
- Reset the data in my test environment

# DBA and system programmer pain points



Must monitor ticket queues and determine priority based on information provided

Everyone's request is urgent

First request may not be the final definition after application developer performs testing

Must enforce the standards and conventions our organization uses for DBD and PSB definitions

Difficult to synchronize each IMS object change with its associated application code change

**DBA**

Must monitor ticket queues and determine priority based on information provided

Everyone's request is urgent

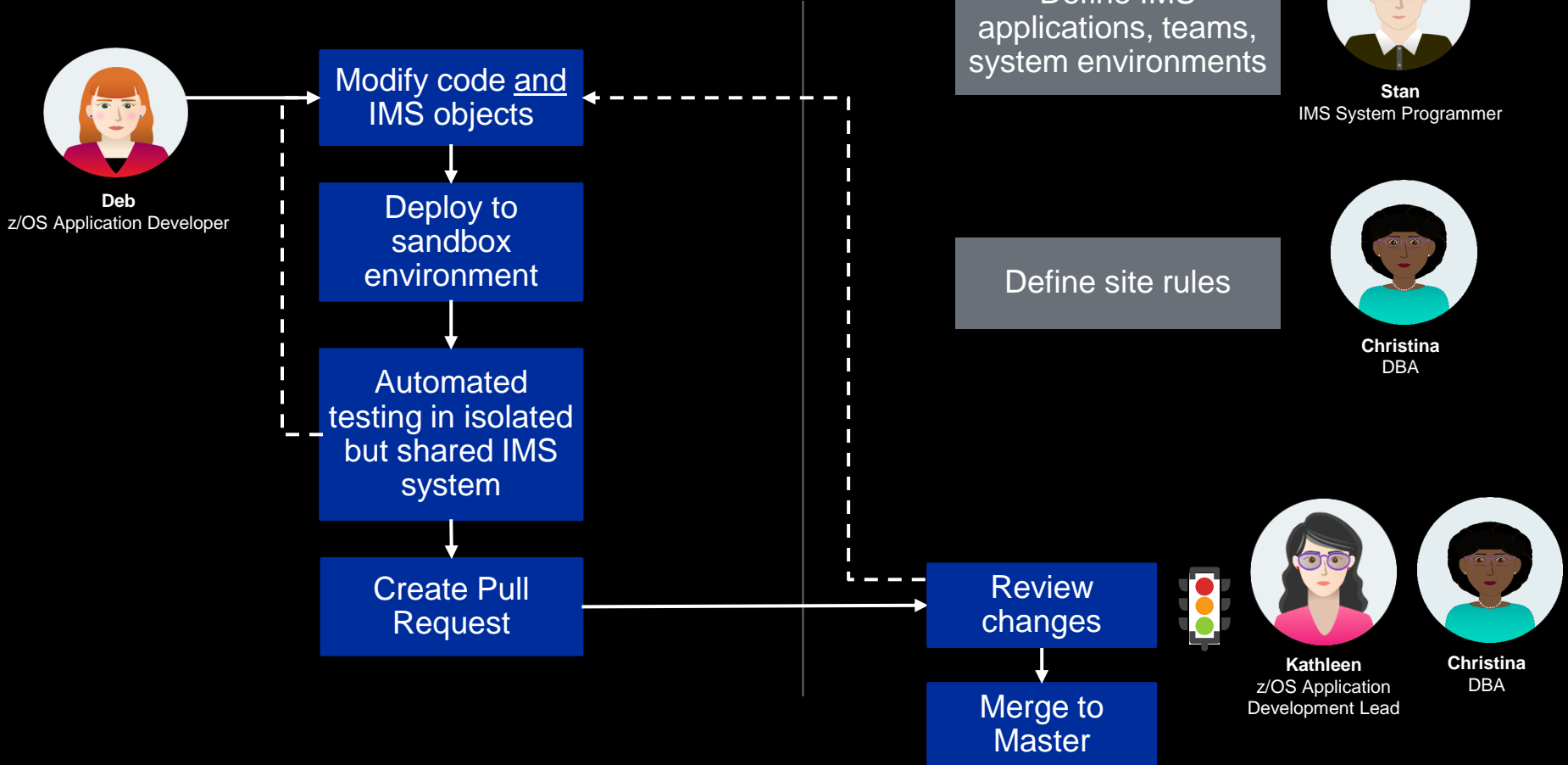
Repeated requests to reset test data in developer's environment

Must manage and minimize allocated system resources across many developers or teams

Difficult to determine which development environments can be deprovisioned, wasting resources

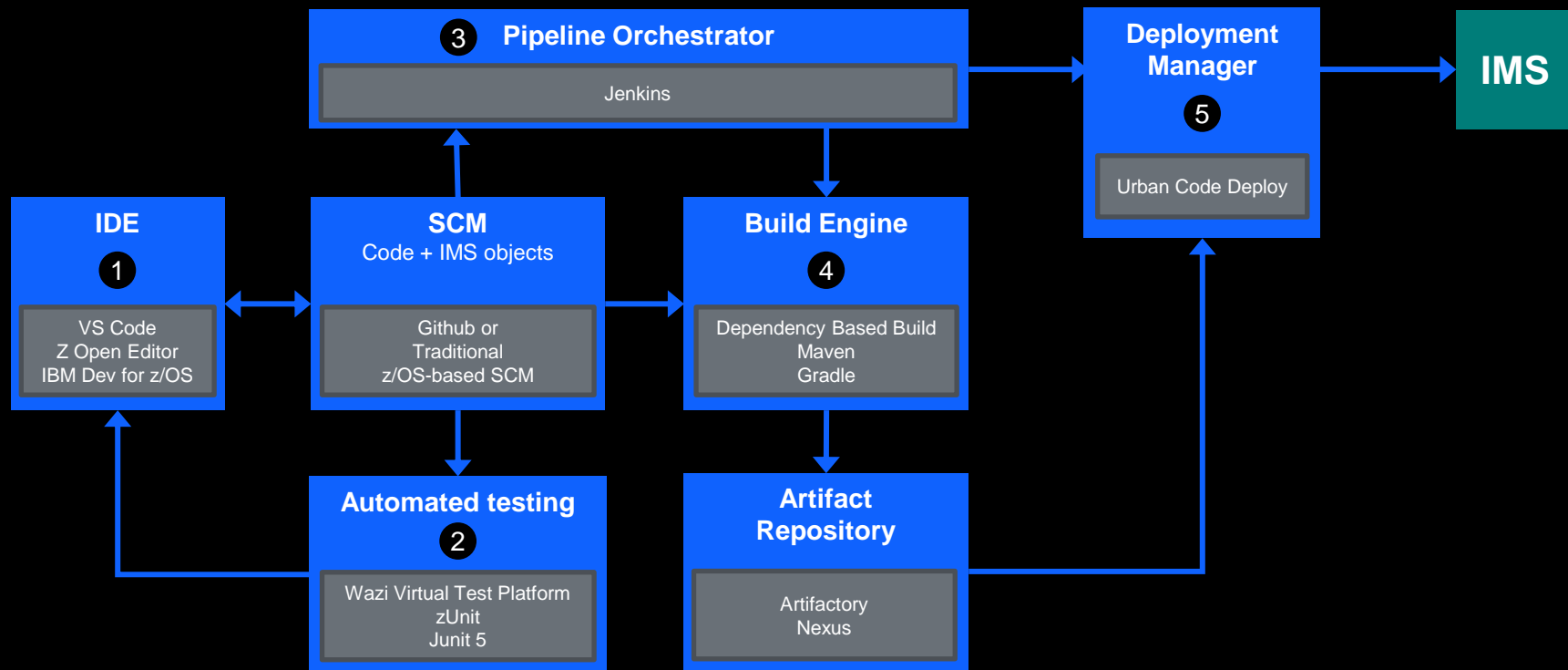
**System Programmer**

# Desired steps by role





# Application change workflow, including IMS objects



# Demo introduction

## IMS system programmer tasks

- Discover IMS systems
- Define test environments
- Define provisioning rules
- Define application development teams and assign to environments

## IMS DBA tasks

- Discover IMS application objects (DBDs and PSBs) and their relations
- Define IMS applications (groups of IMS objects)
- Define site rules for IMS application object changes
- Assign site rules to IMS applications

## Application developer tasks

- Provision a copy of an application
- Visualize site rules that have been defined to an application
- Issue 'Pull' request to have changes reviewed, approved and merged

# Summary

Find out where your organization is on its DevOps journey

Understand most of the focus to date has been on application changes

IMS changes need to be included in CI/CD pipeline

Talk to us if you want to learn more or provide input or requirements

# Resources: IBM IMS and IMS Tools

## IMS Tools website

[www.ibm.com/it-infrastructure/z/ims/tools](http://www.ibm.com/it-infrastructure/z/ims/tools)

## IMS Fundamentals videos:

[https://mediacenter.ibm.com/playlist/dedicated/139456202/0\\_o46903ao/0\\_beoagp8k](https://mediacenter.ibm.com/playlist/dedicated/139456202/0_o46903ao/0_beoagp8k)

## IMS Tools Product Documentation

[www.ibm.com/support/docview.wss?uid=swg27020942](http://www.ibm.com/support/docview.wss?uid=swg27020942)

## IMS newsletter

Sign up: [ibm.biz/IMS\\_eNews](http://ibm.biz/IMS_eNews)

## IMS listserv

<http://imslistserv.bmc.com>

## IMS Tools Videos on IBM MediaCenter

<https://mediacenter.ibm.com/eseach/search?fields=all&sortBy=updatedAtDesc&keyword=%22IMS%20tools%22>

## IMS new functions

[www.ibm.com/support/knowledgecenter/en/SSEPH2\\_15.1.0/com.ibm.ims15.doc.rpg/ims\\_cd\\_functions.htm](http://www.ibm.com/support/knowledgecenter/en/SSEPH2_15.1.0/com.ibm.ims15.doc.rpg/ims_cd_functions.htm)

## IBM Z Software newsletter - IT Management & Operations

<http://ibm.biz/ZOperations>

## IMS Tools new functions

[www.ibm.com/support/docview.wss?uid=swg22015506](http://www.ibm.com/support/docview.wss?uid=swg22015506)

## IMS Tools support for IMS V15

[www.ibm.com/support/docview.wss?uid=swg22009341](http://www.ibm.com/support/docview.wss?uid=swg22009341)

## IMS Tools support for Managed ACBs

[www.ibm.com/support/docview.wss?uid=ibm10731745](http://www.ibm.com/support/docview.wss?uid=ibm10731745)

## IMS Tools support for Data Set Encryption

[www.ibm.com/support/docview.wss?uid=ibm107333513](http://www.ibm.com/support/docview.wss?uid=ibm107333513)

## Article in Enterprise Executive: The Modern IMS Ecosystem

[ourdigitalmags.com/publication/?i=644521](http://ourdigitalmags.com/publication/?i=644521)

धन्यवाद

Hindi

감사합니다

Traditional Chinese

謝

Gracias

Spanish

Спасибо

Russian

*Thank You*

**Ndzi khense ngopfu**

Tsonga

English

Grazie

Italian

Obrigado

Brazilian Portuguese

Hvala Lijepa

Croatian

شكراً

Arabic

Danke

German

多谢

Simplified Chinese

ขอบคุณ

Thai

**Ke a leboha**

Tswana

**Merci**

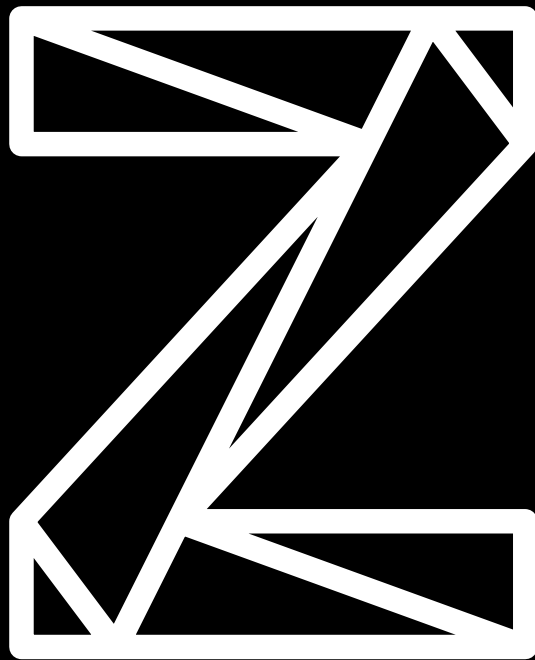
French

நன்றி

Tamil

ありがとうございました

Japanese



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