IBM SolutionsConnect 2013

L'IBM TechSoftware nouvelle génération

28, 29 et 30 août

IBM Client Center Paris

#solconnect13

Transformez vos opportunités en succès

IBM

Le Cloud selon CICS TS V5.1, épisode 1 : des applications

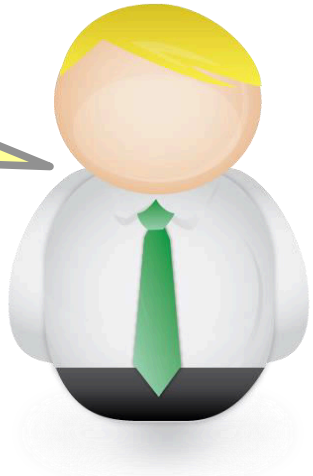
Steve Wallin
CICS Strategy and Design Manager

Service Agility, development scenario…

FASTER

"Hey Simon, I need to test my new version of the payroll **application.**"

"Sure Abigail, you should get the latest payroll test **platform** from the repository, I'll send you a link."



"Thanks, I'll **deploy my app** onto that platform on the development plex later today."

SIMPLER

"That should be fine, just check with Oliver that the **policies** on the plex are going to be OK for your app's changes."

Once upon a time things were simple

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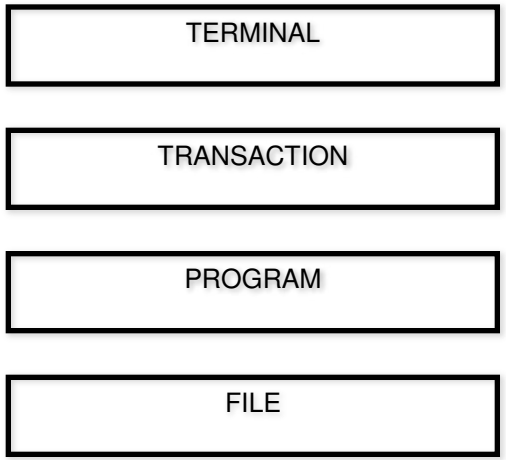
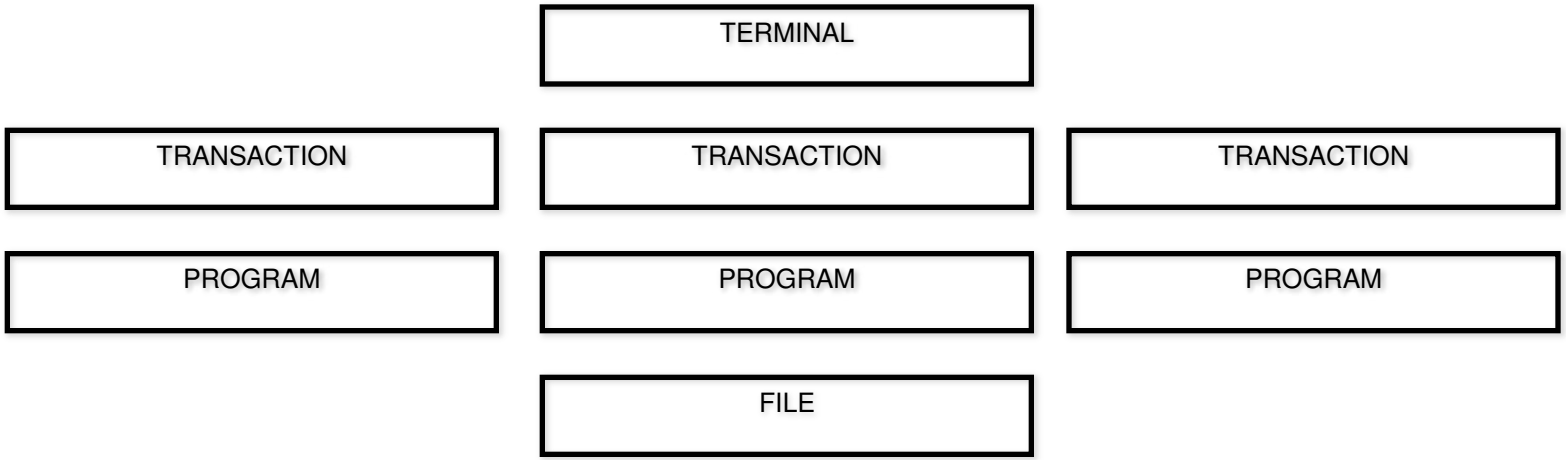
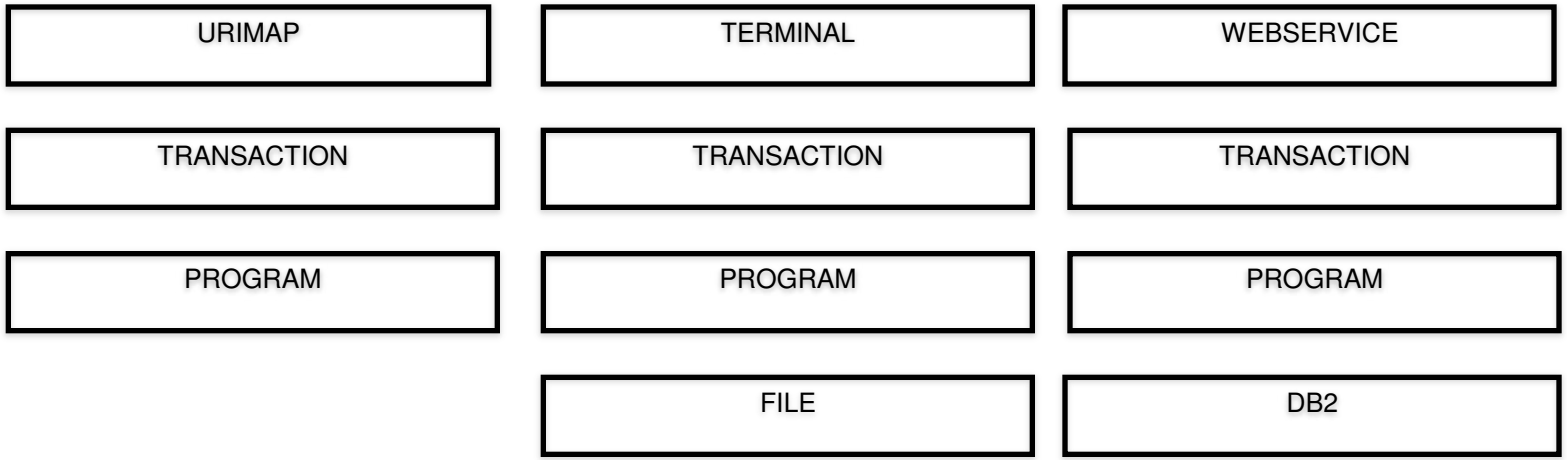


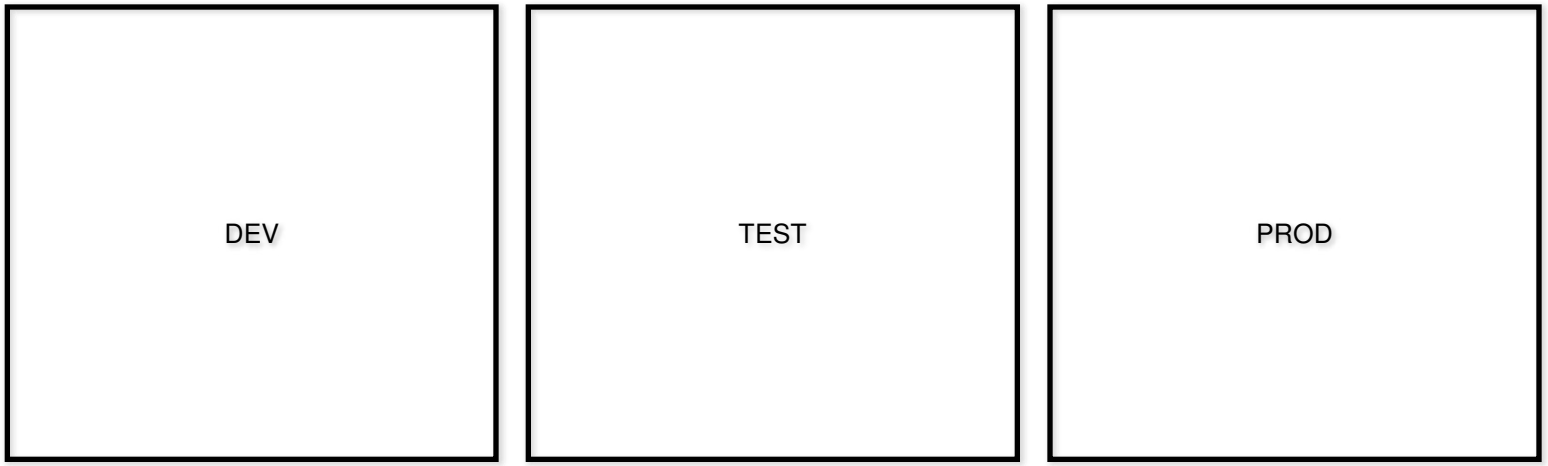
Then capability was added



Then we started getting really clever



And what about those pesky* application developers

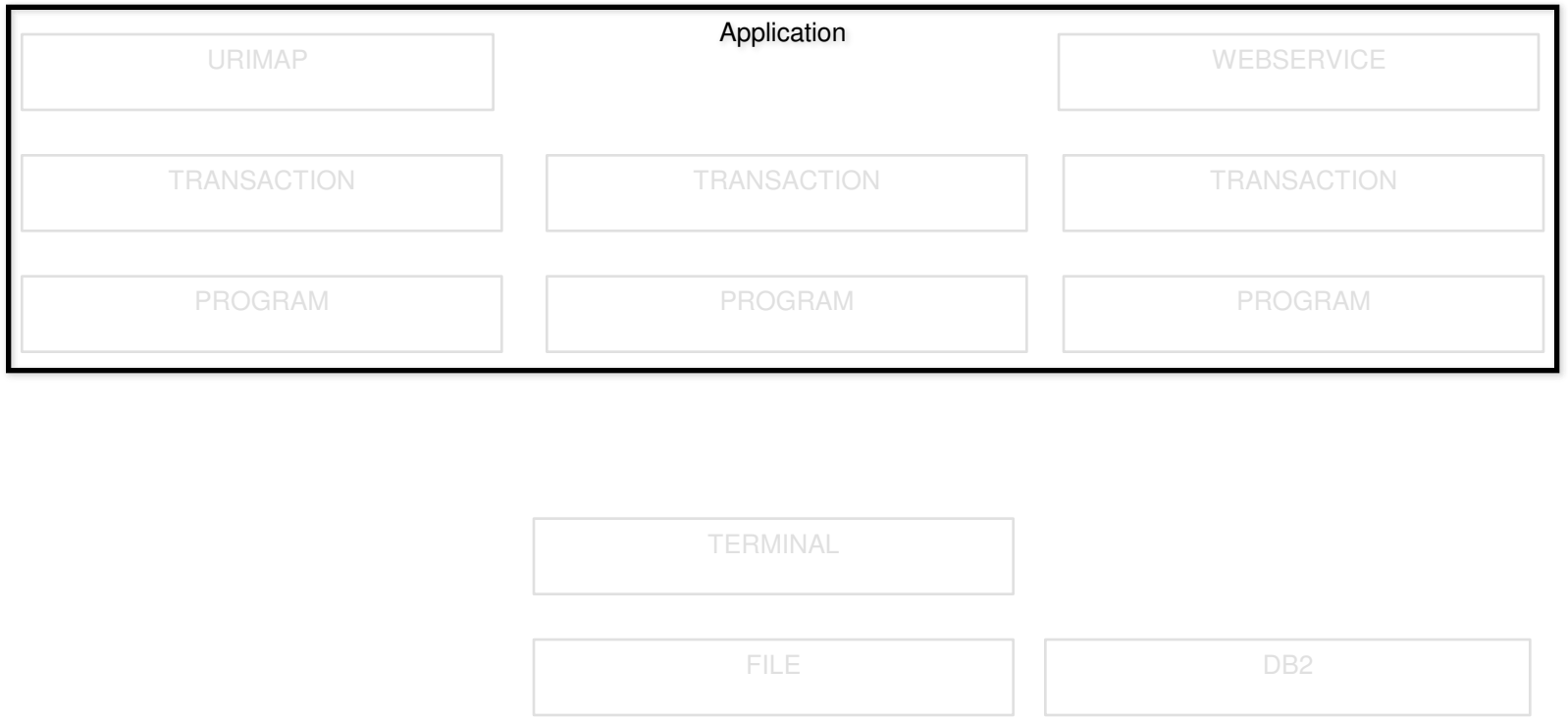


*Troublesome; annoying: *a pesky mosquito*

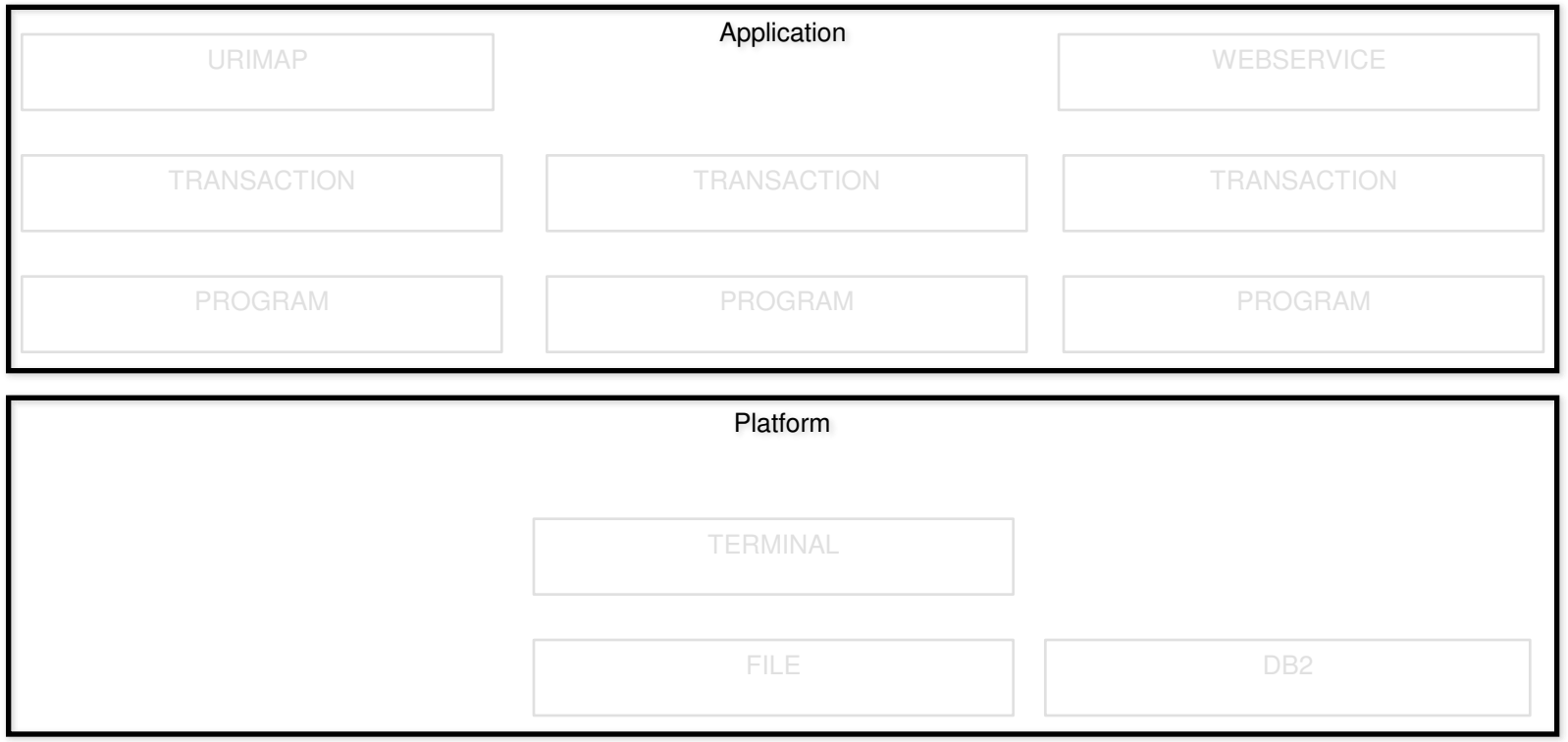
http://http://www.thefreedictionary.com/pesky

We need things to be simple again

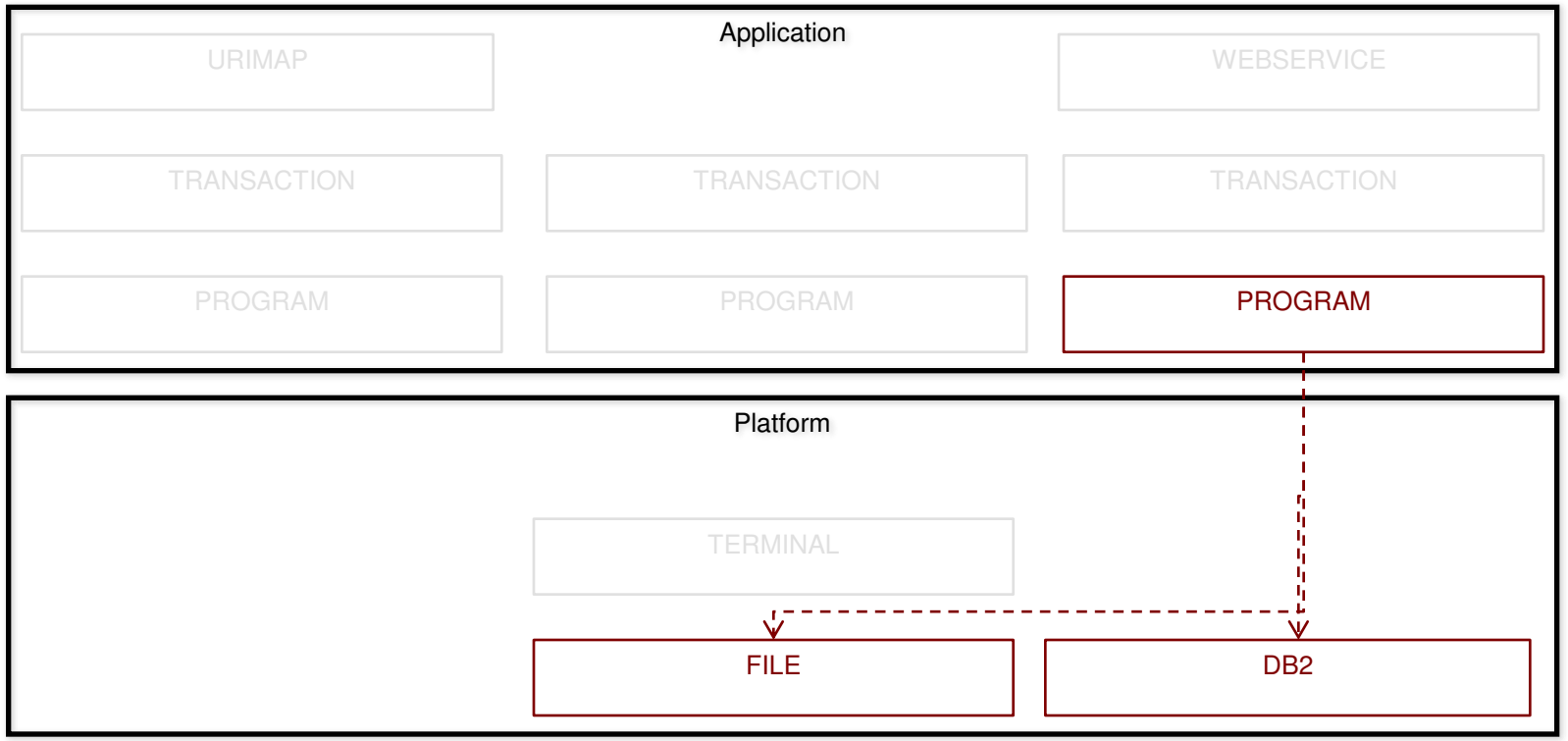
We need things to be simple again: Application



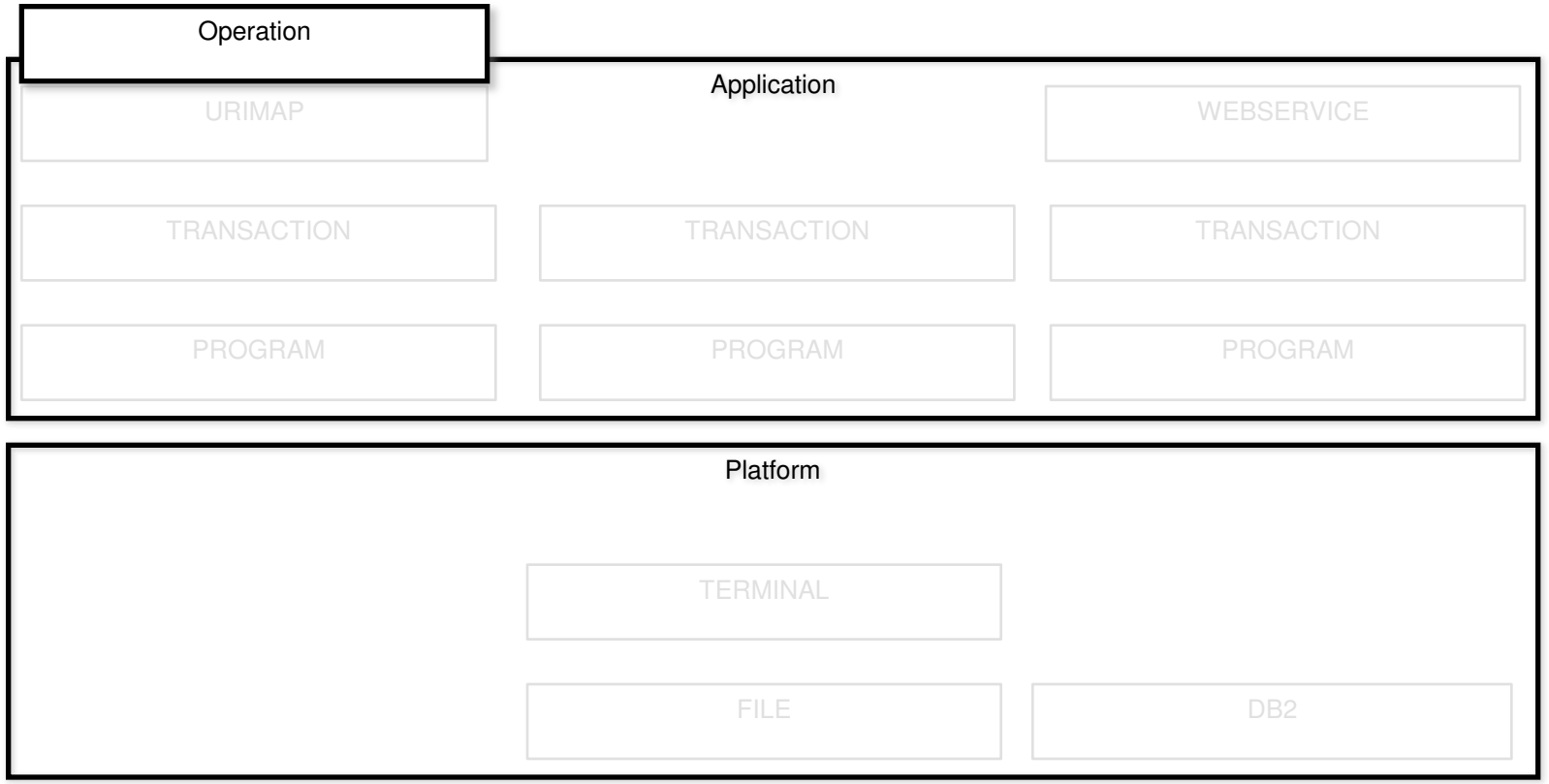
We need things to be simple again: Platform



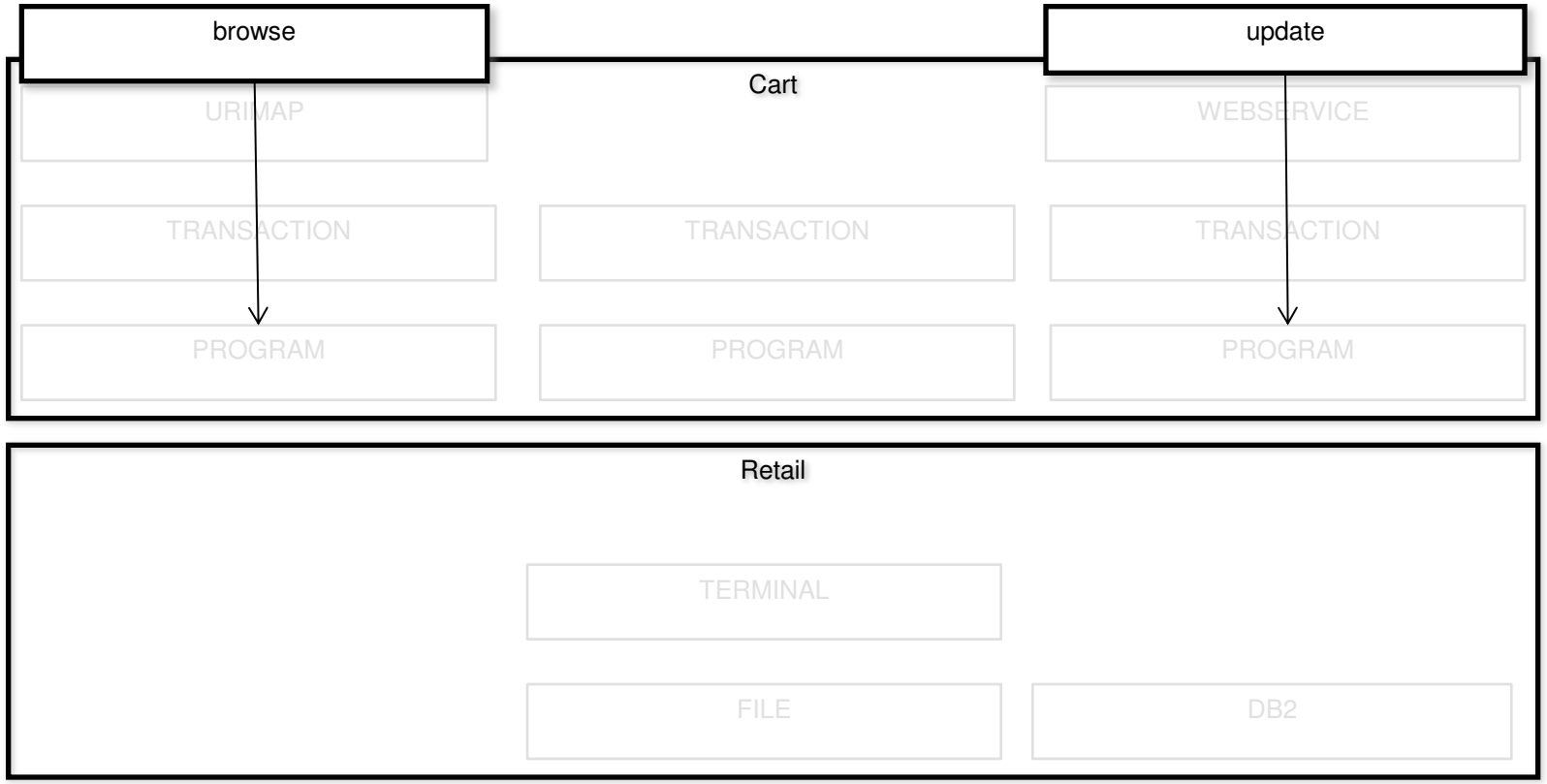
We need things to be simple again: Dependencies



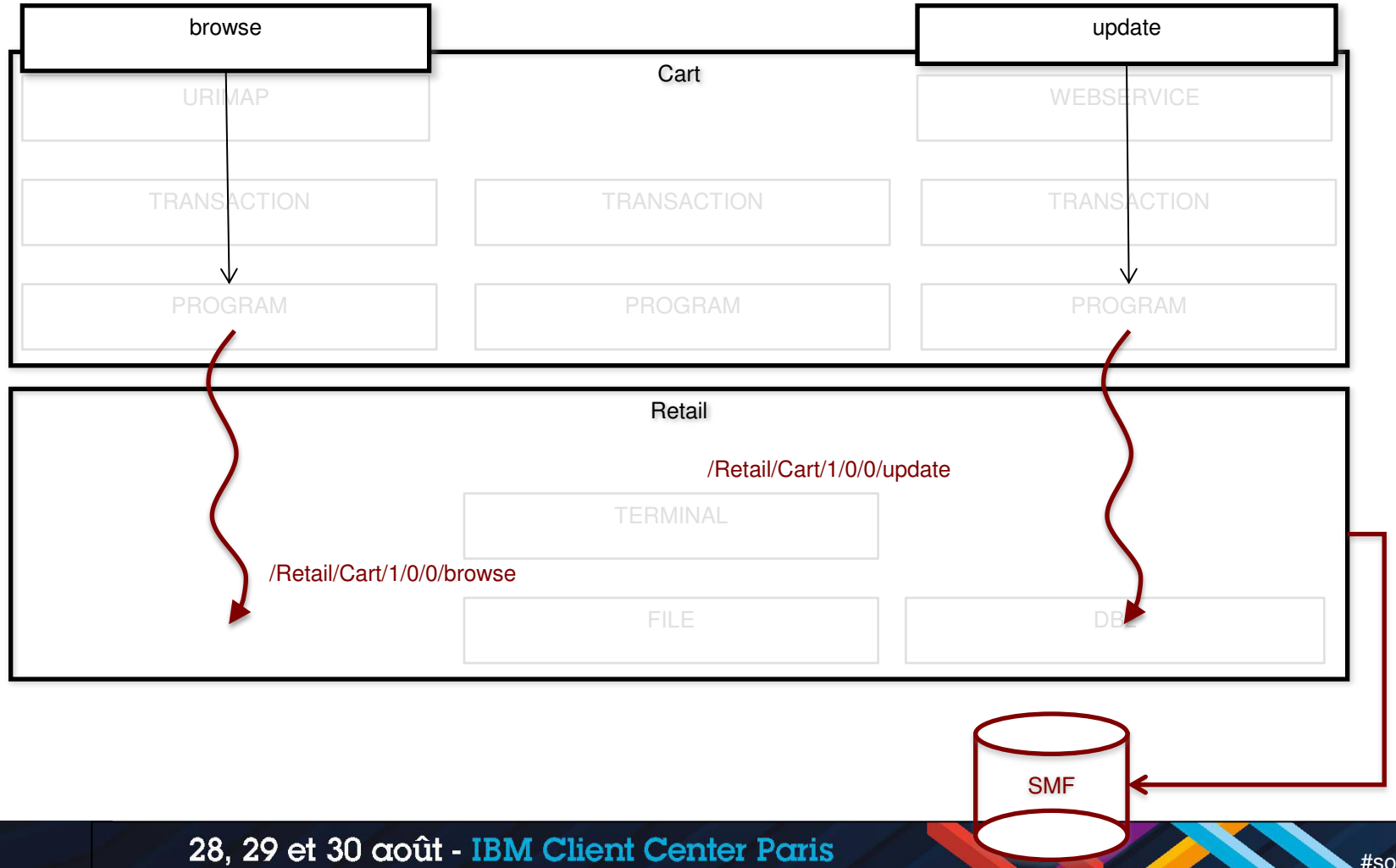
We need things to be simple again: Operation



We need things to be simple again: Entry Points



We need things to be simple again: Application Context



New First Class ~~Concepts~~ Resources

Application & Application Binding

Platform

Policy

Application

An Application bundle

A collection of one or more CICS bundles

Life-cycle as a single entity

Measure and control resource usage

Develop in Eclipse/Rational

Share and promote through Source Code Management (SCM)

Application Package

Name

org.maw.banking.Loans

Version

1.2.1

Resources

LIBRARY, PROGRAM, TRANSACTION, URIMAP
(EVENTBINDING, OSGIBUNDLE, …)

Dependencies

DB2CONNECTION, JVMSERVER, TCPIPSERVICE, …

Entry points

operation: browse, update, …
resource: PROGRAM

Policy

Application Lifecycle

Create Application bundle project

Application Lifecycle

Create Application bundle project

Create Binding bundle project

Application Lifecycle

Create Application bundle project

Create Binding bundle project

Package CICS bundle(s)

Application Lifecycle

Create Application bundle project

Create Binding bundle project

Package CICS bundle(s)

Export Application package to zFS

Application Lifecycle

Create Application bundle project

Create Binding bundle project

Package CICS bundle(s)

Export Application package to zFS

INSTALL Application onto a Platform

ENABLE/DISABLE Application

DISCARD Application

Application Lifecycle

Create Application bundle project

Create Binding bundle project

Package CICS bundle(s)

Export Application package to zFS

INSTALL Application onto a Platform

ENABLE/DISABLE Application

DISCARD Application

Application status (DISABLED | ENABLING | …)

Application Context

Manage Application

Measure & control resource usage

Associate Task with Application operation

PROGRAM

Flow from Task to Task & Region to Region

MRO, IPIC

Recorded in monitoring data

Platform, Application, Version (major.minor.micro), Operation

Version

Semantic versioning

- major: backward incompatible change
- minor: backward compatible change
- micro: bug fix

Resources

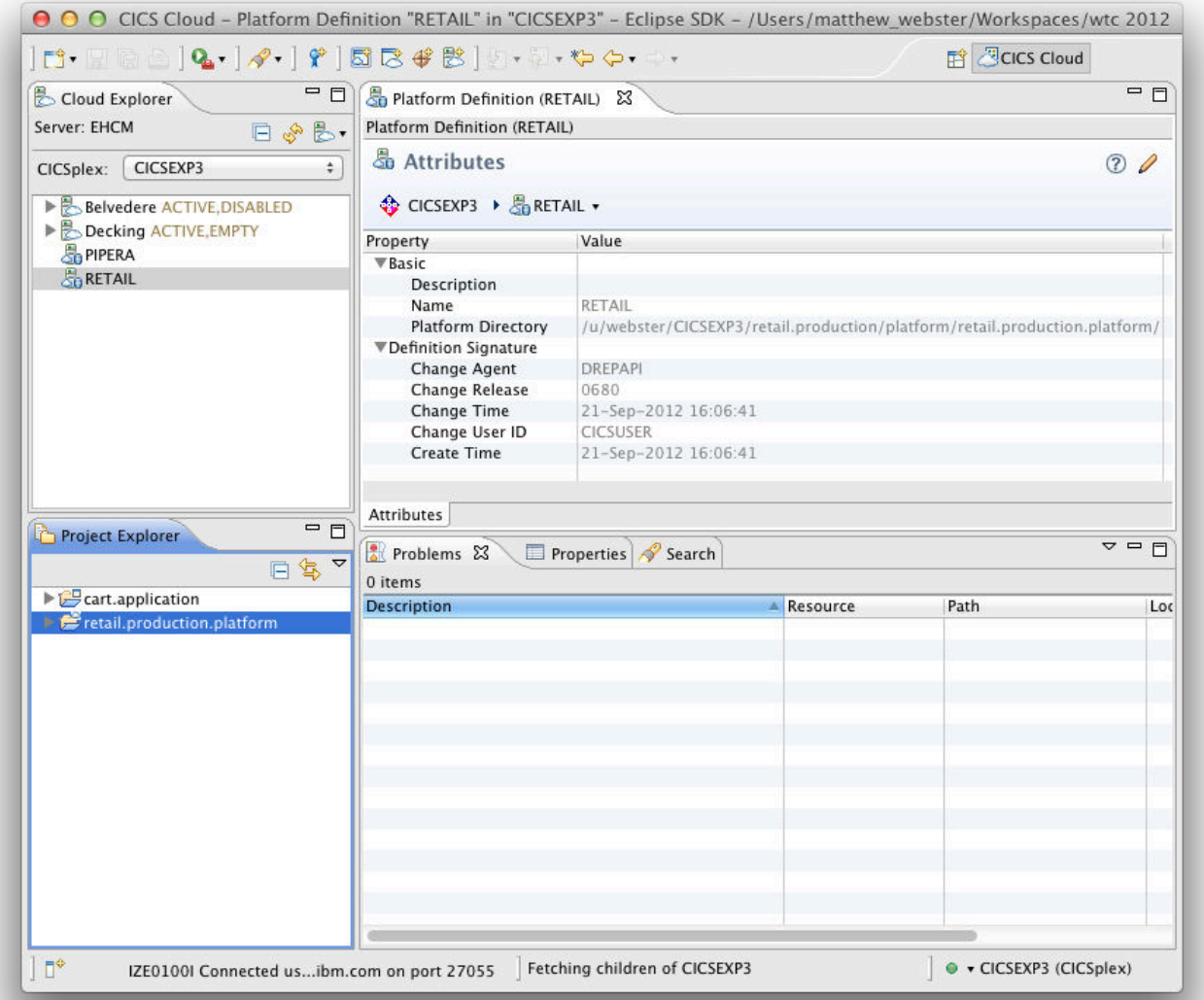
- Application
- CICS bundle
- *OSGi bundle*

Life-cycle

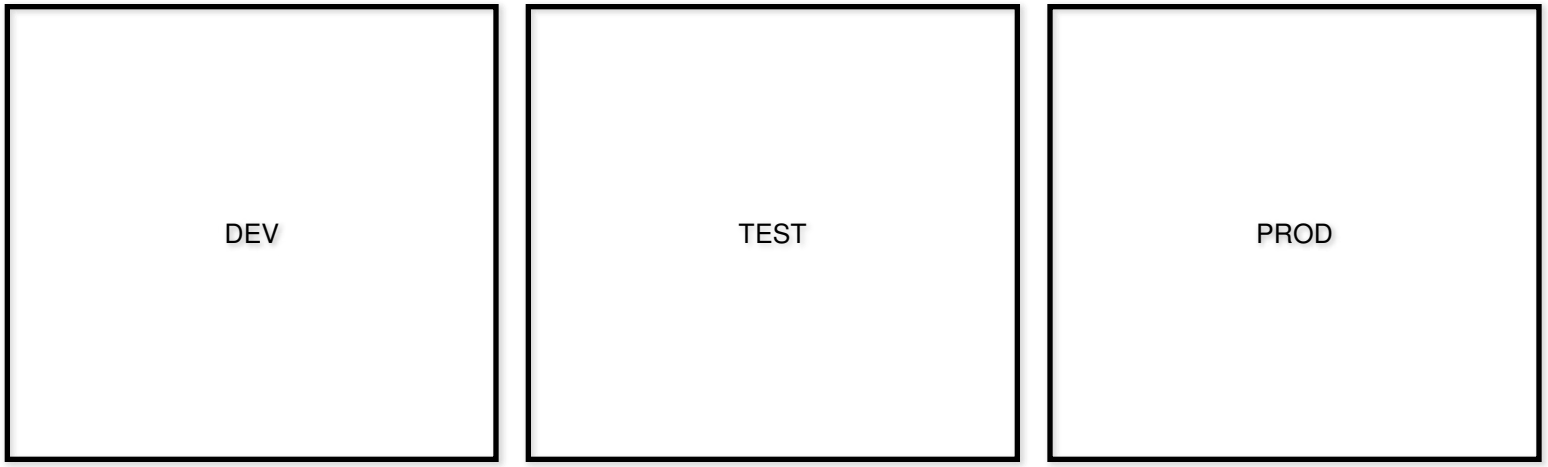
- Development
- Deployment
- Operations
- Planning

http://www.osgi.org/wiki/uploads/Links/SemanticVersioning.pdf

Demonstration



Now back to those pesky* developers



*Troublesome; annoying: *a pesky mosquito*

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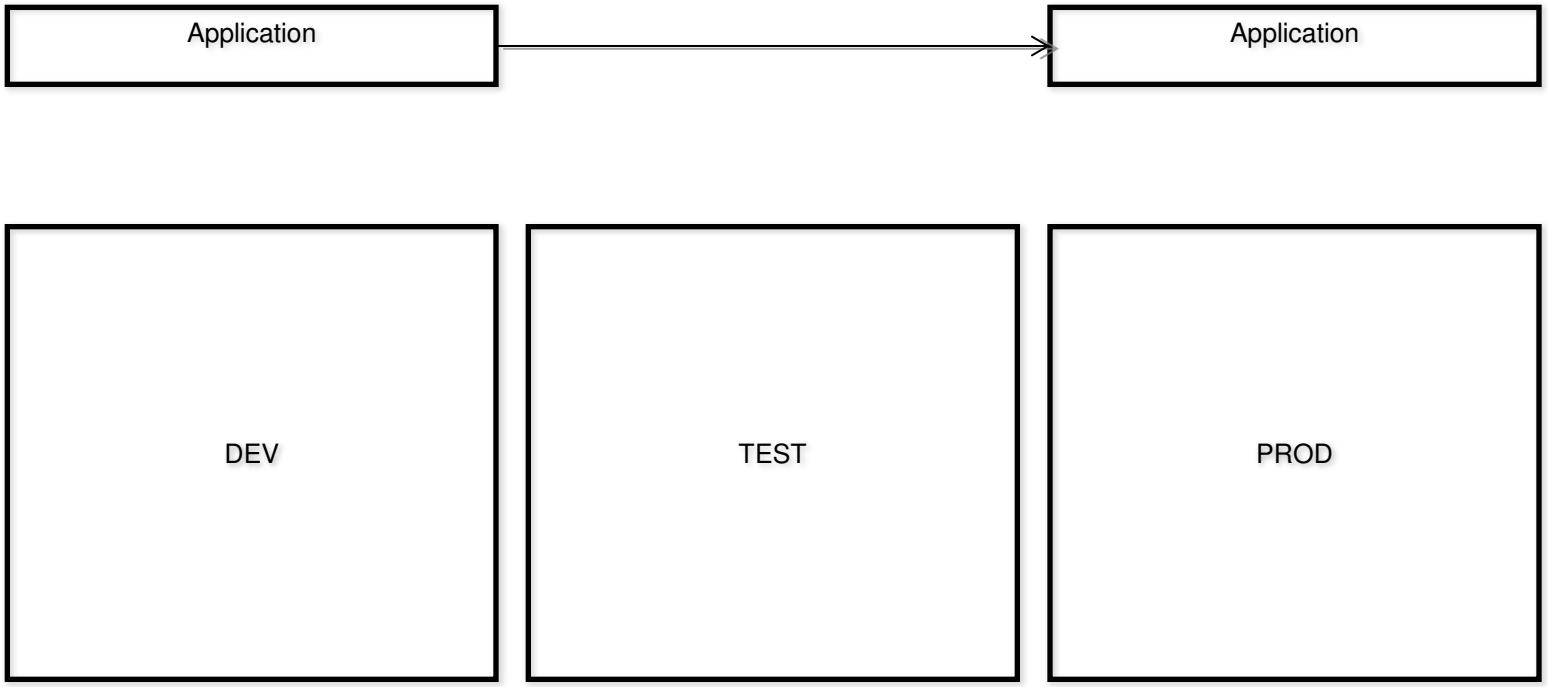
How do I move an Application from Development through Test to Production (without changing it)?



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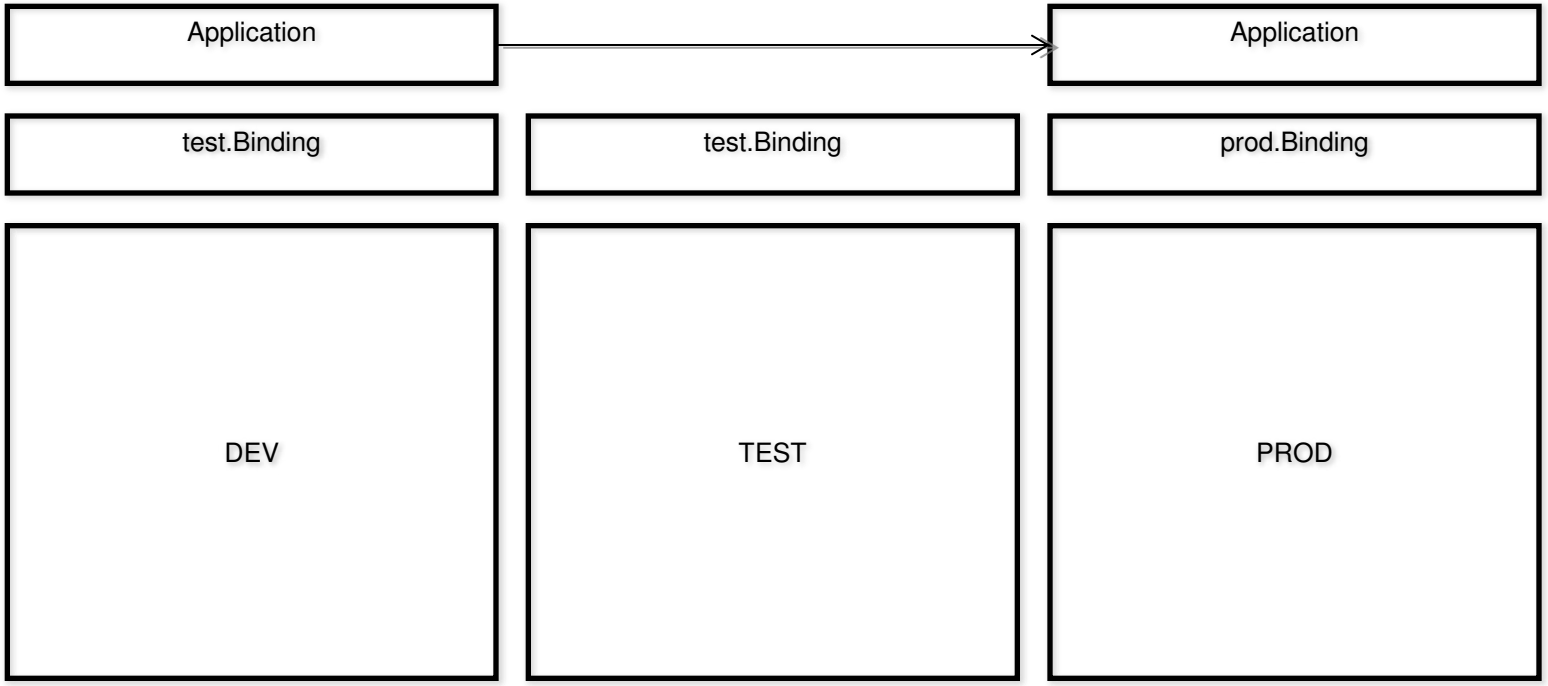
Answer: use Application Bindings



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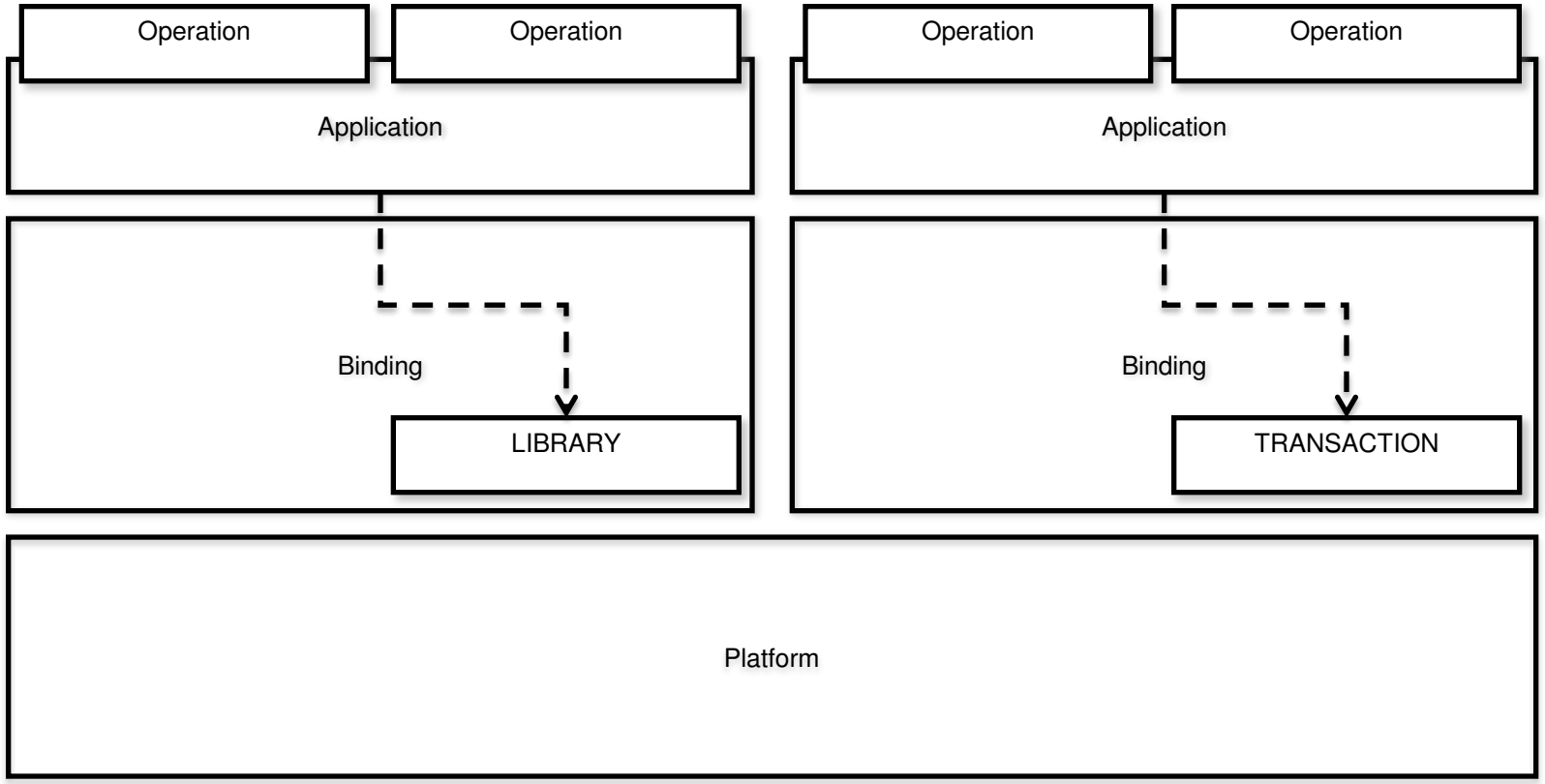
A Binding allows additional resource dependencies to be created



Application Binding

An Application Binding bundle

A collection of zero or more CICS bundles

A set of deployment rules

Life-cycle with Application as a single entity

Removes direct dependency between Application and Platform

Application Binding Package

Name

org.maw.banking.binding.Loans

Version

1.2.1

Binding

Application name & version

Platform name & version

Additional CICS bundles

Resources

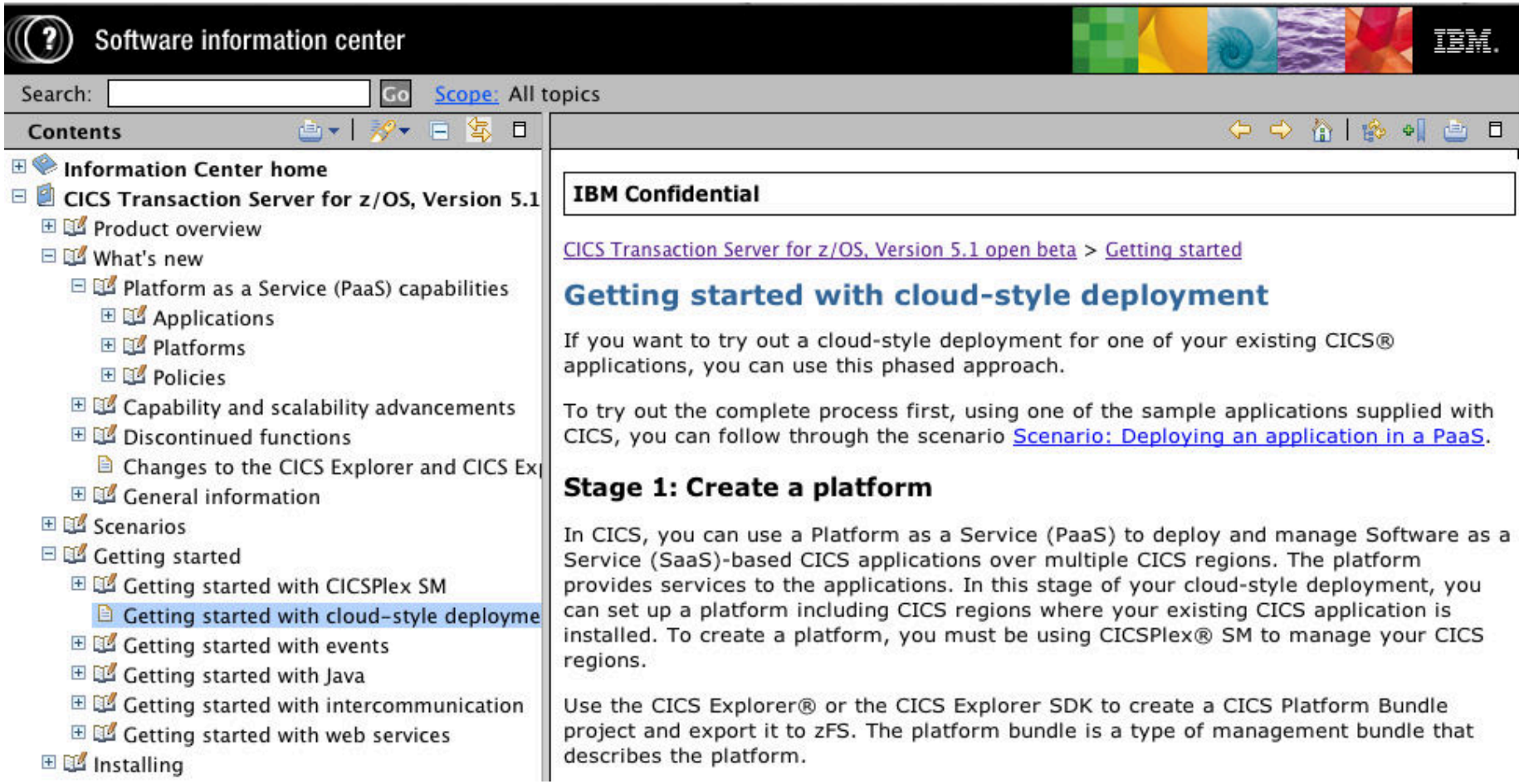
Dependencies

Deployment Rules

CICS bundle -> region type

Policy

Information Center



Application Discovery using CICS IA

Discover entry points, resource and dependencies

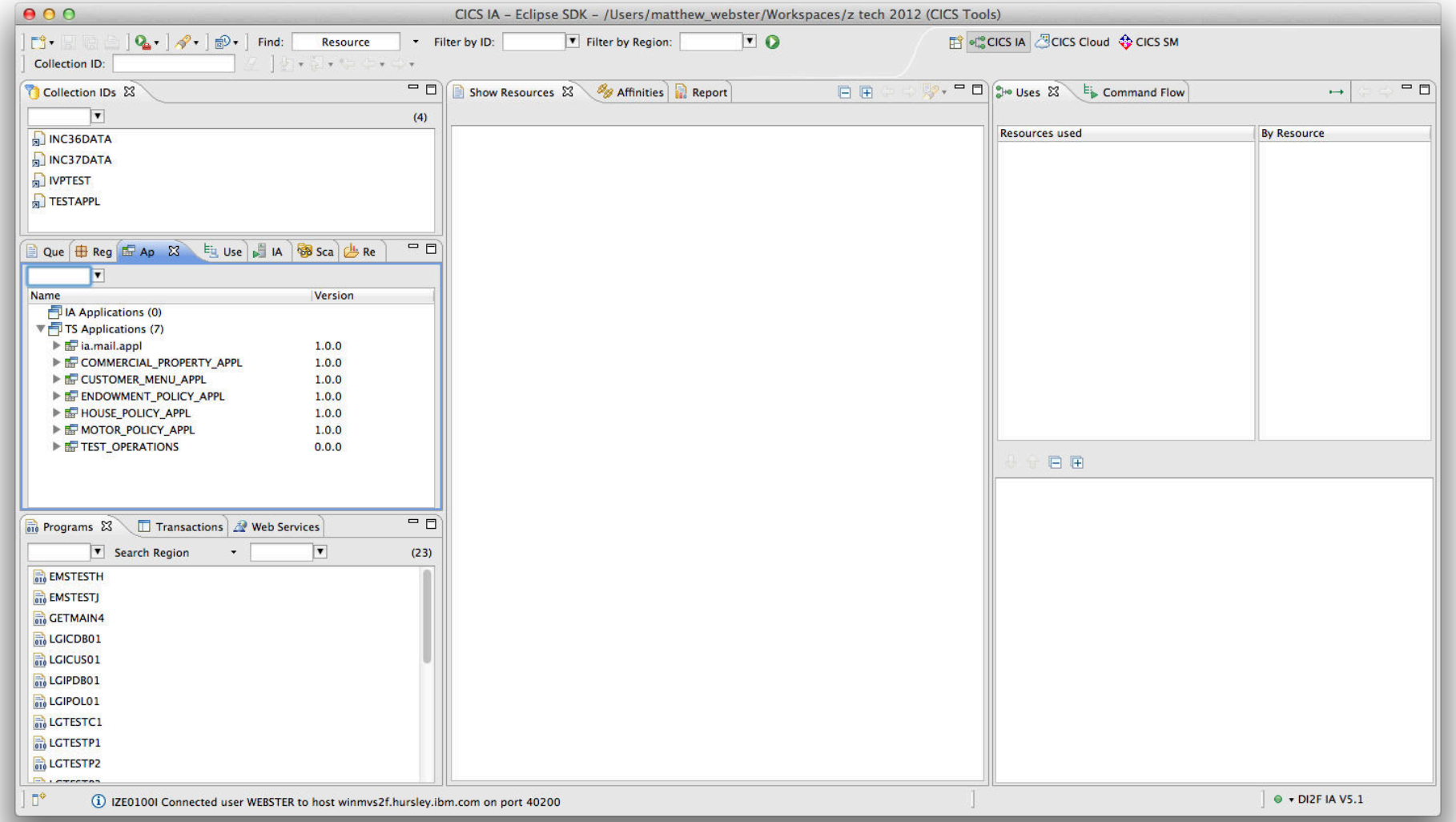
Collect information about Applications

Set temporary entry points

“Used by application”

“Collect by Application”

“CICS IA” Perspective



Summary

New Application resource simplifies development and deployment lifecycle

Application binding allows an application to be deployed to different Platforms without change

Application context simplifies management of runtime status and measurement of resource consumption

Questions?

As a reminder, please fill out a session evaluation