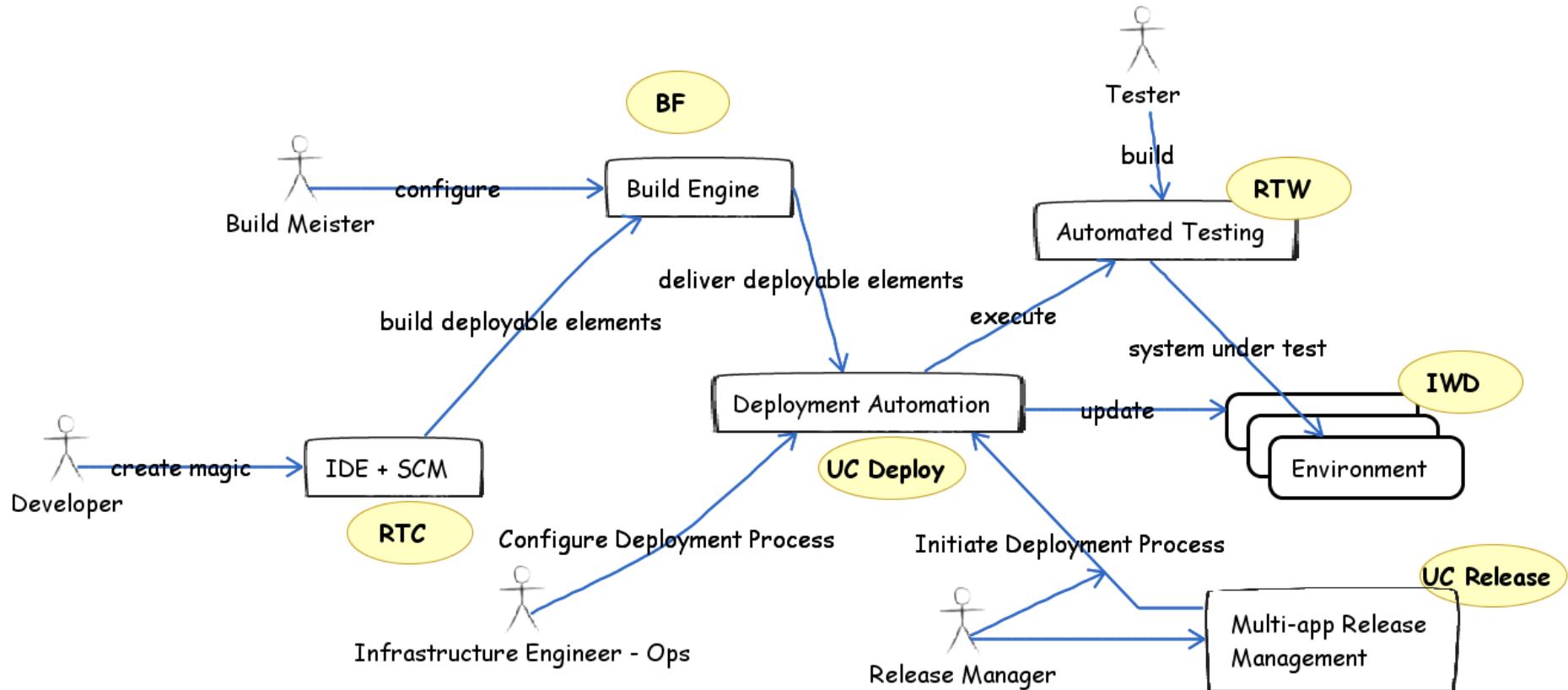


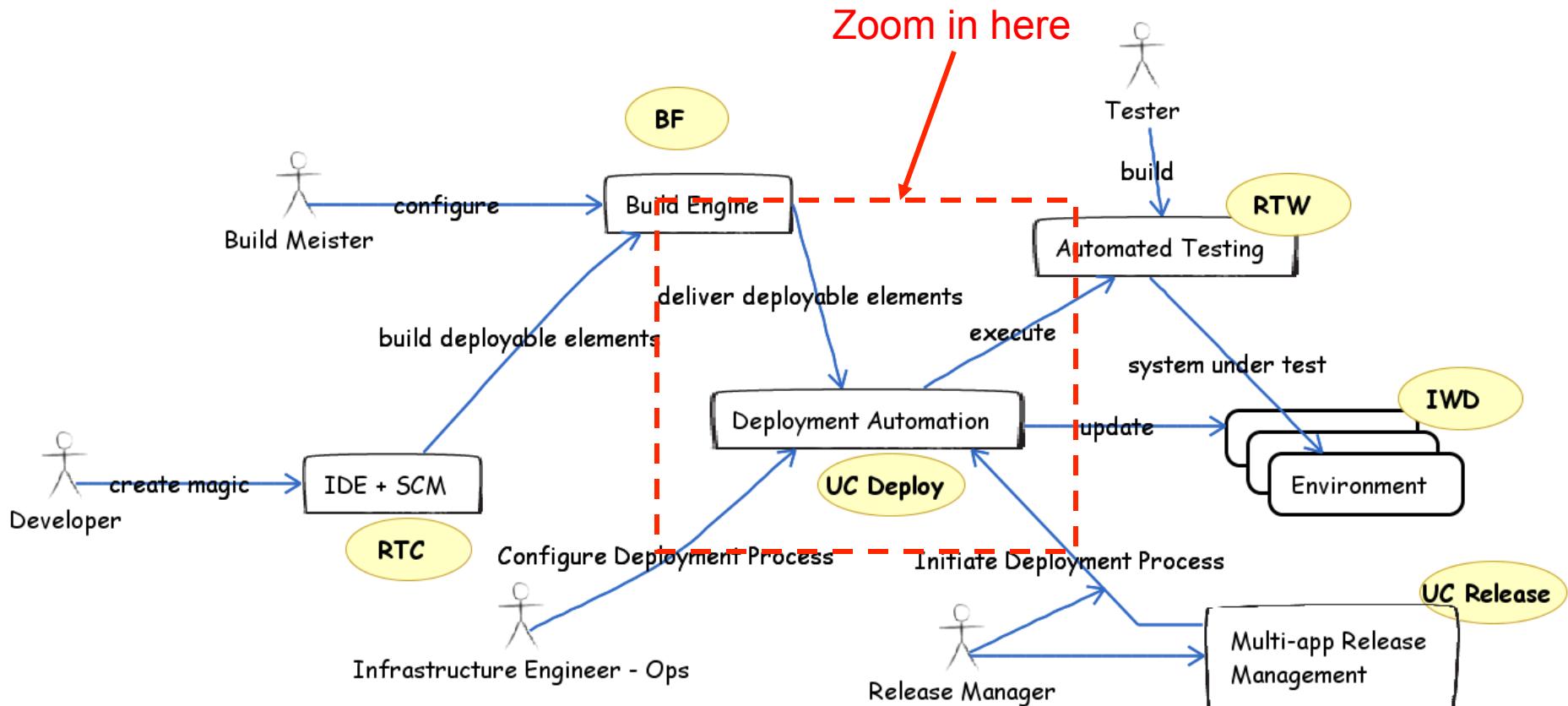
# Basic Usage Scenarios

For Deploy and Release

# Nose Bleed View



# Nose Bleed View



# What you need to know:

Application

Component

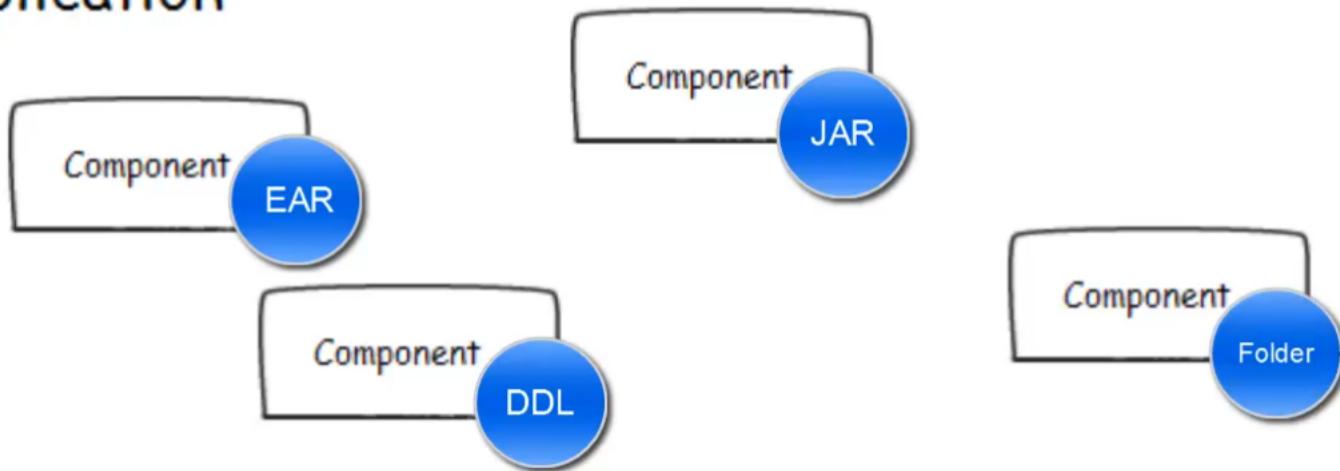
Process

Environment

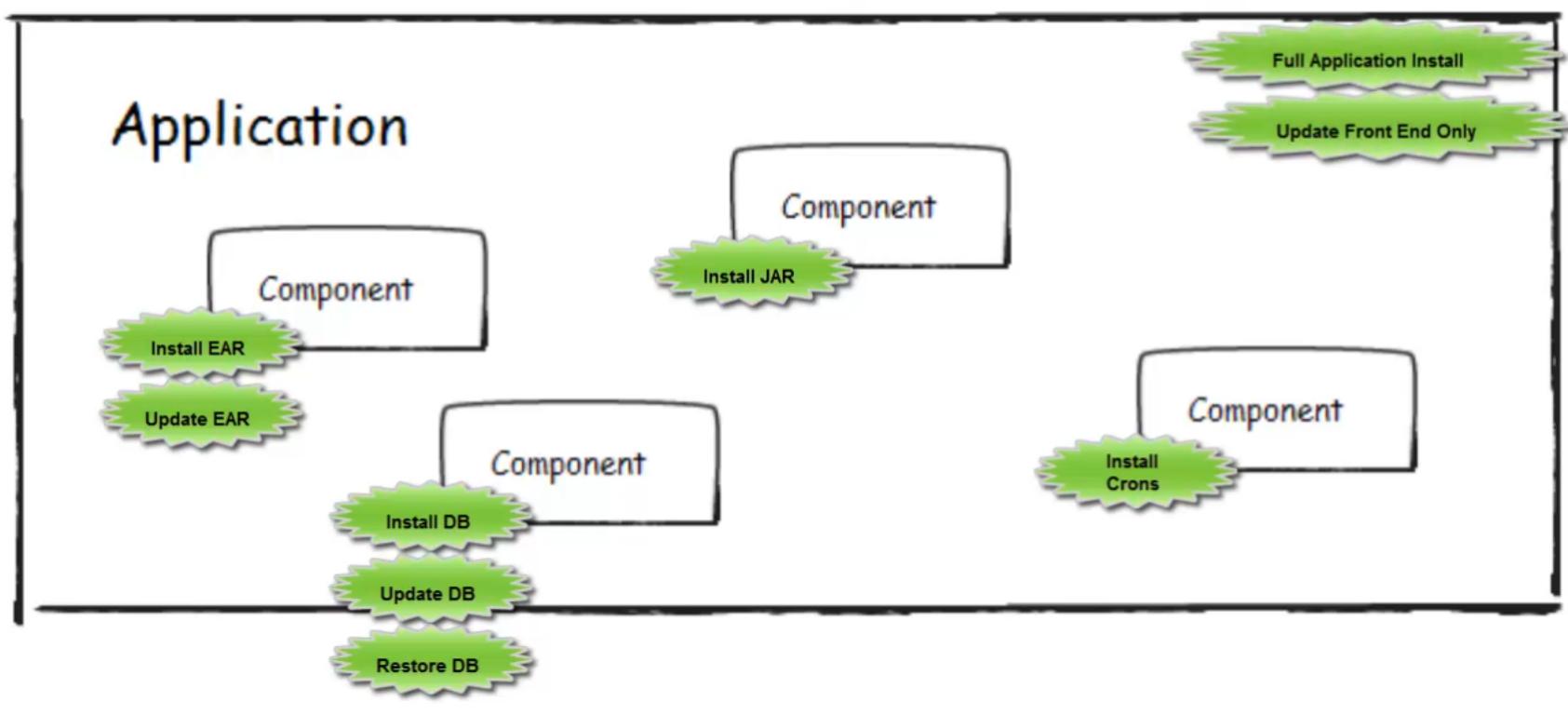
Resource

# Applications and Components

## Application



# Processes



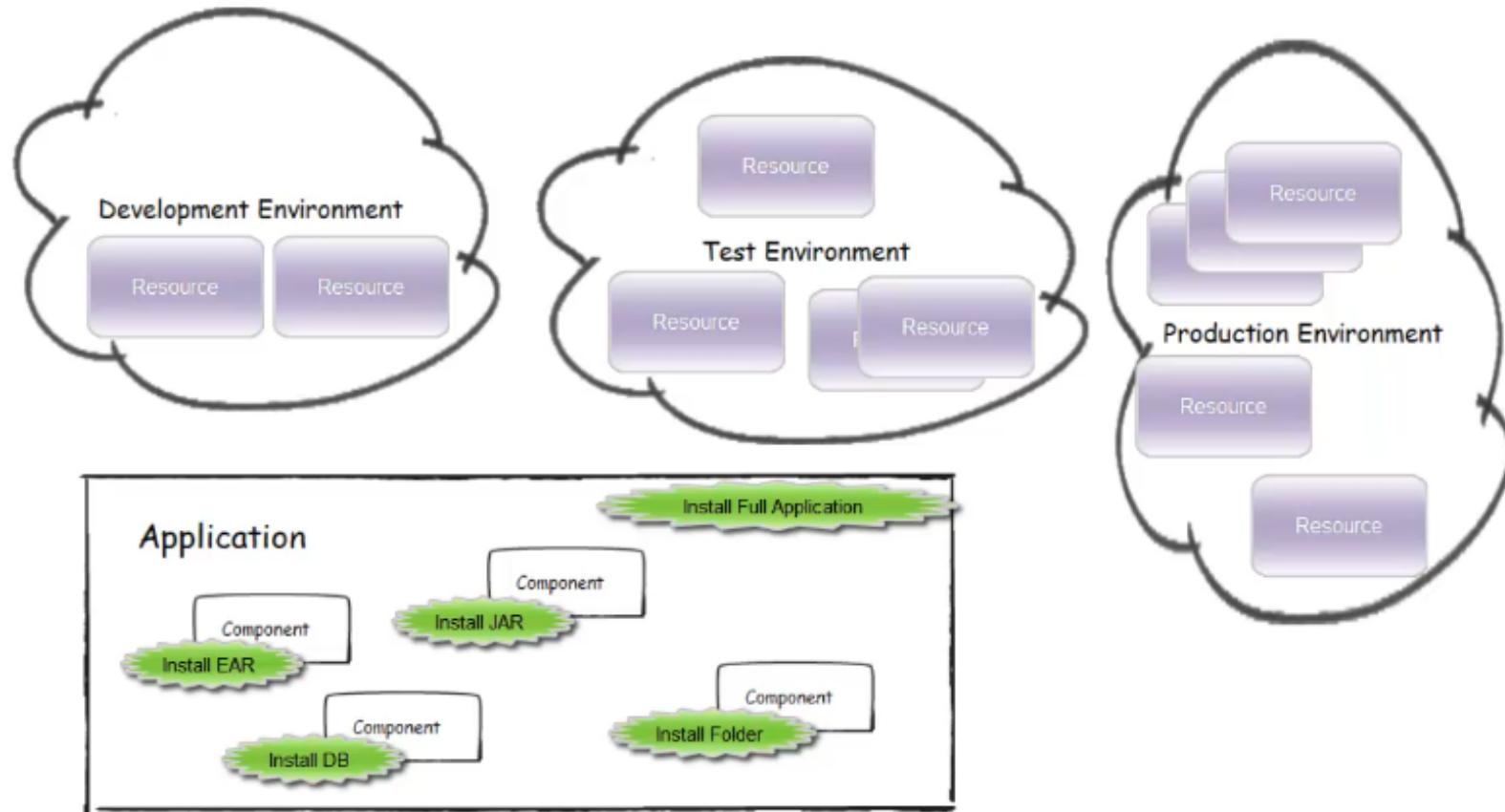
# Process Steps



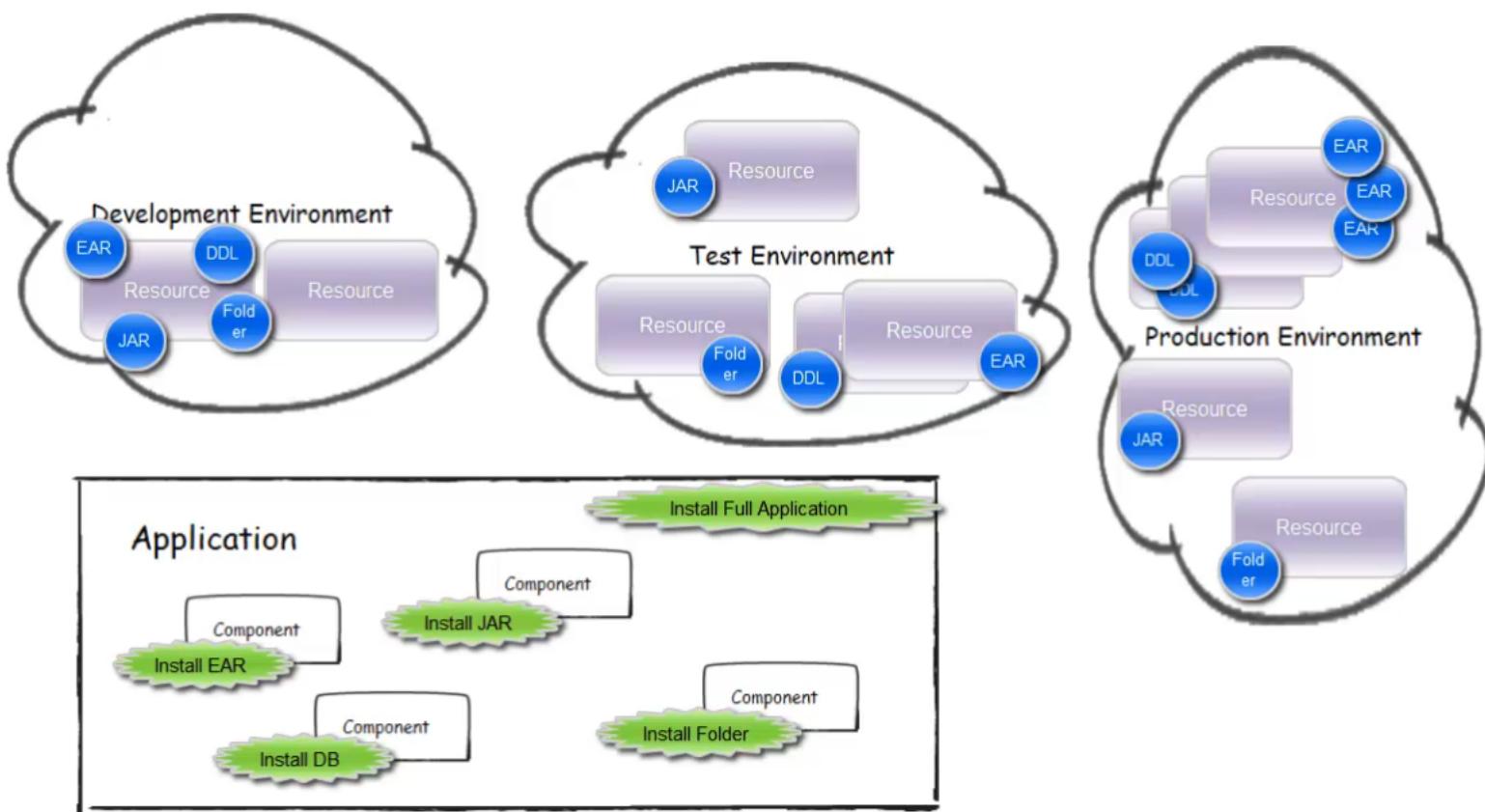
1. Download latest EAR
2. Unpack EAR artifacts
3. Create JDBC Provider
4. Create Datasource
5. Start Enterprise Application

Component

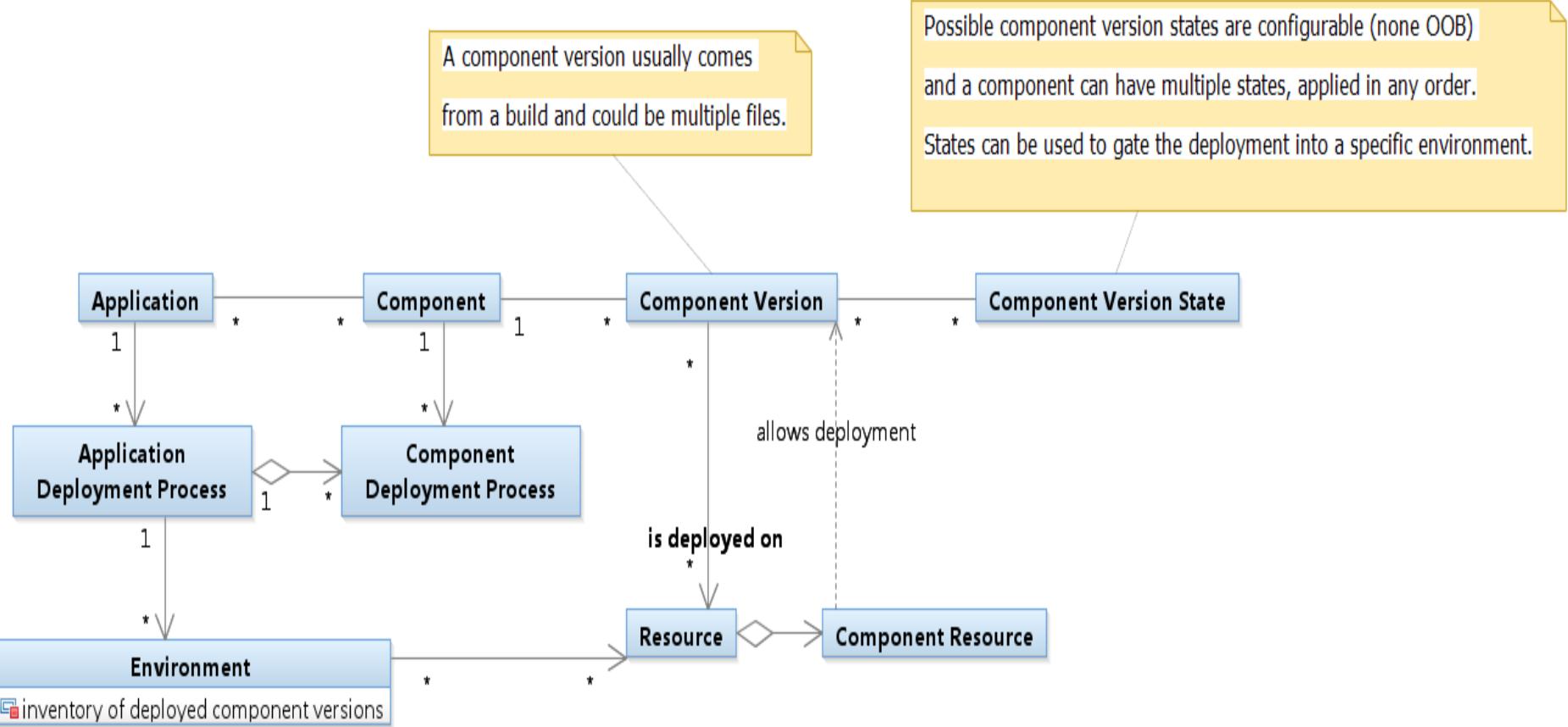
# Environments and Resources



# Deployment to Environments



# Deployment Deliverables and States

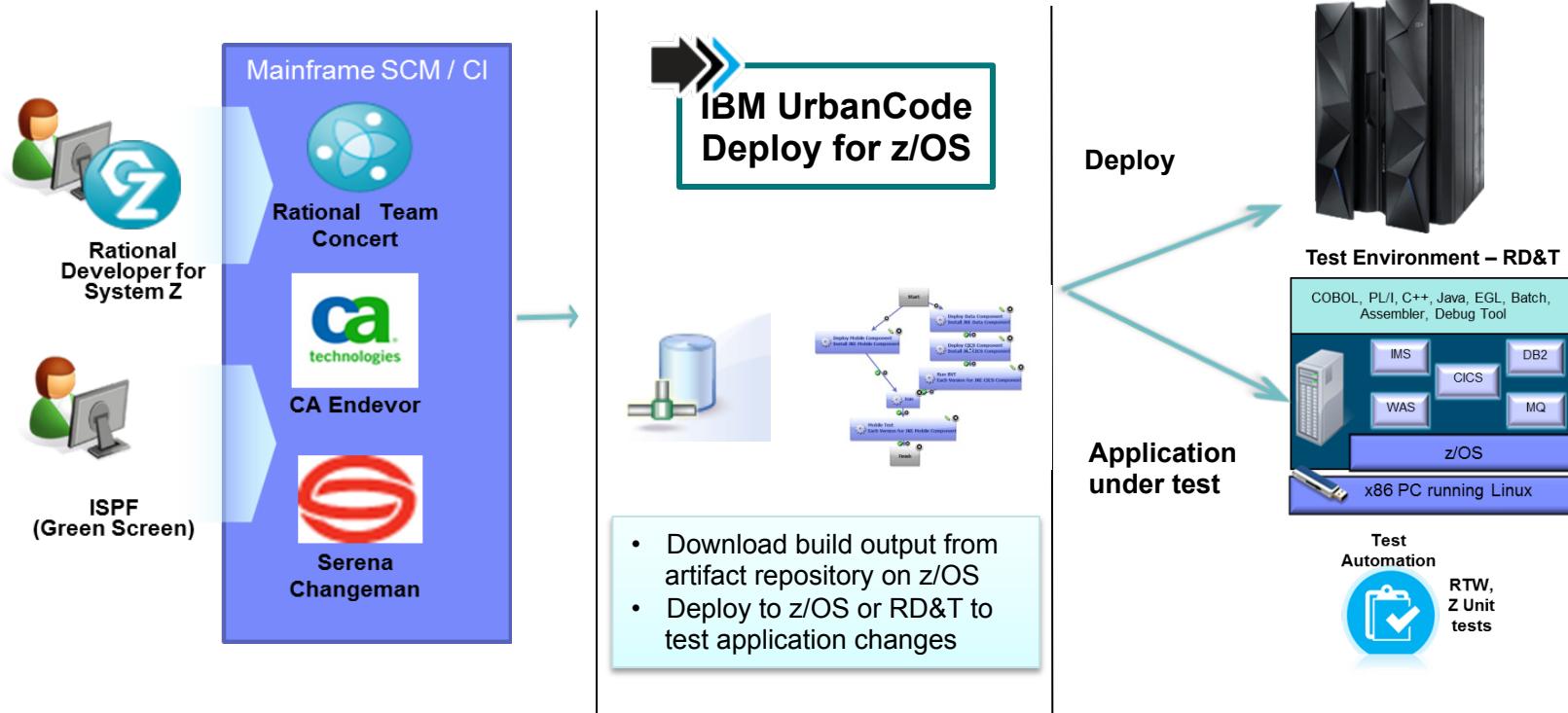


The *value* is the deployment of component versions onto resources so that something can be done with the application in an environment.

# **URBancode DEPLOY AND Z/ OS**

# Major Theme for v6.1 - Continuous Delivery for the Mainframe

## New capabilities to speed delivery of interdependent, multi-platform applications



- Provides a **unified solution** for continuous delivery of heterogeneous enterprise applications
- **Accelerate delivery** and reduces cycle time to develop/test multi-tier applications across heterogeneous environments and platforms
- **Reduce costs** and eliminate delays for delivering mainframe applications
- **Minimize risk** and improve productivity across disparate teams with cross-platform release planning

# Detailed Overview

## UCD v6.0.1 (2H13)

- Agent platform support - zLinux and z/OS
- Ability to interact with USS file system and deploy Java applications on z/OS

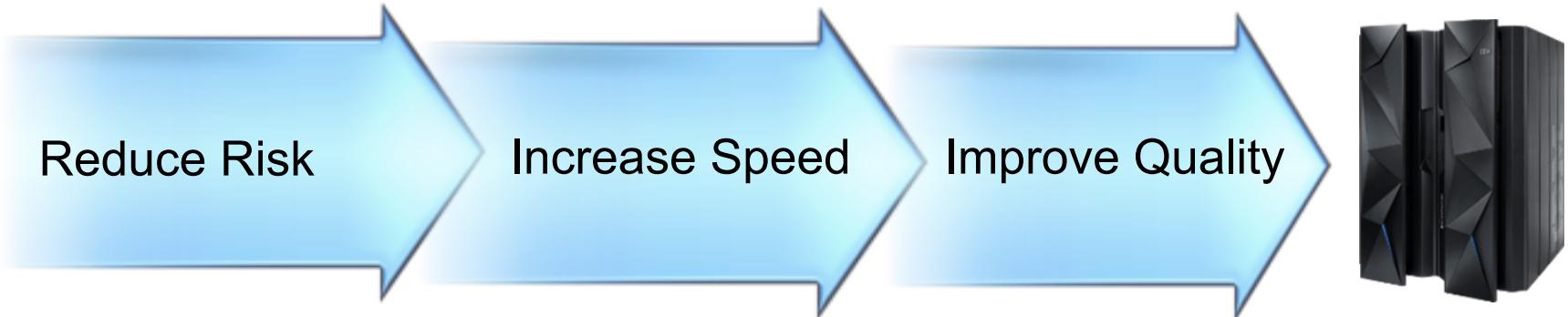
## UCD v6.1 (June 2014)

- SCM agnostic artifact packaging
- z/OS artifact repository in USS
- Incremental deployment and rollback of versions
- Deployment of load modules to target partitioned data set (PDS)
- Copy of load modules between PDS
- Execute TSO/ISPF commands on PDS (and members)
- Deployment and configuration support for Websphere Application Server on z/OS

## UrbanCode Deploy for z/OS FAQ

[UrbanCode Deploy 61 zOS Support with RTC 3Minutes](#)

[UrbanCode Deploy 61 zOS Support 20Minutes](#)



### ***Flexible and Secure***

- Easily integrate into existing DevOps pipeline with SCM/build agnostic packaging utility
- Artifact repository “on the box” to ensure data governance and compliance
- Design dynamic and versioned release processes

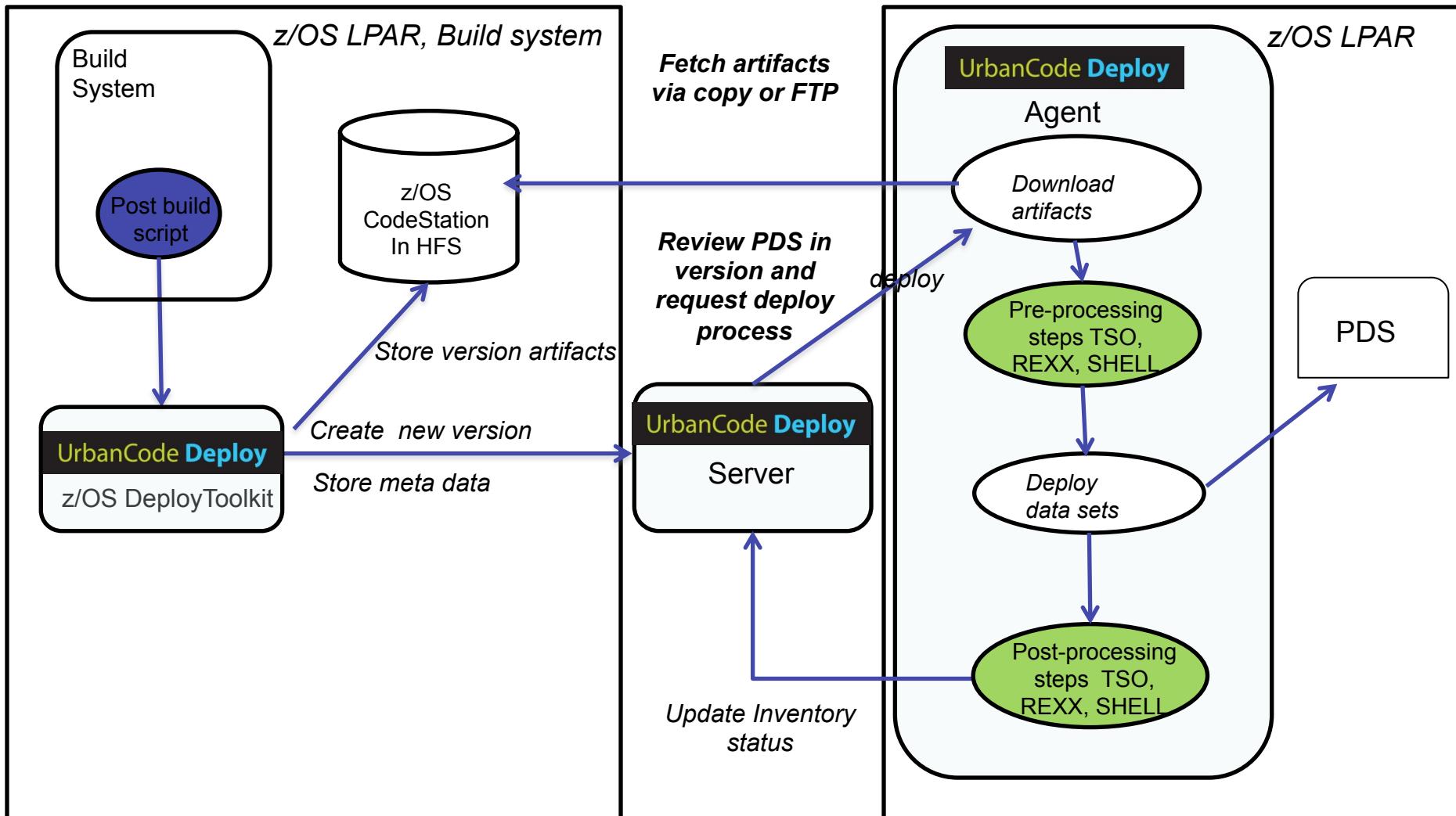
### ***Transparency and Control***

- Standardize release planning, tracking, and deployment governance across disparate teams and platforms
- Reliably package, deploy and promote incremental native file system changes across environments
- Confidently track “what is where” and rollback to any prior version at ease

### ***Extensible***

- Streamline deployment process with out-of-the-box z/OS utility integrations
- Support for middleware application deployment and configuration for WAS
- Leverage existing deployment scripts or extend with intuitive plugin framework

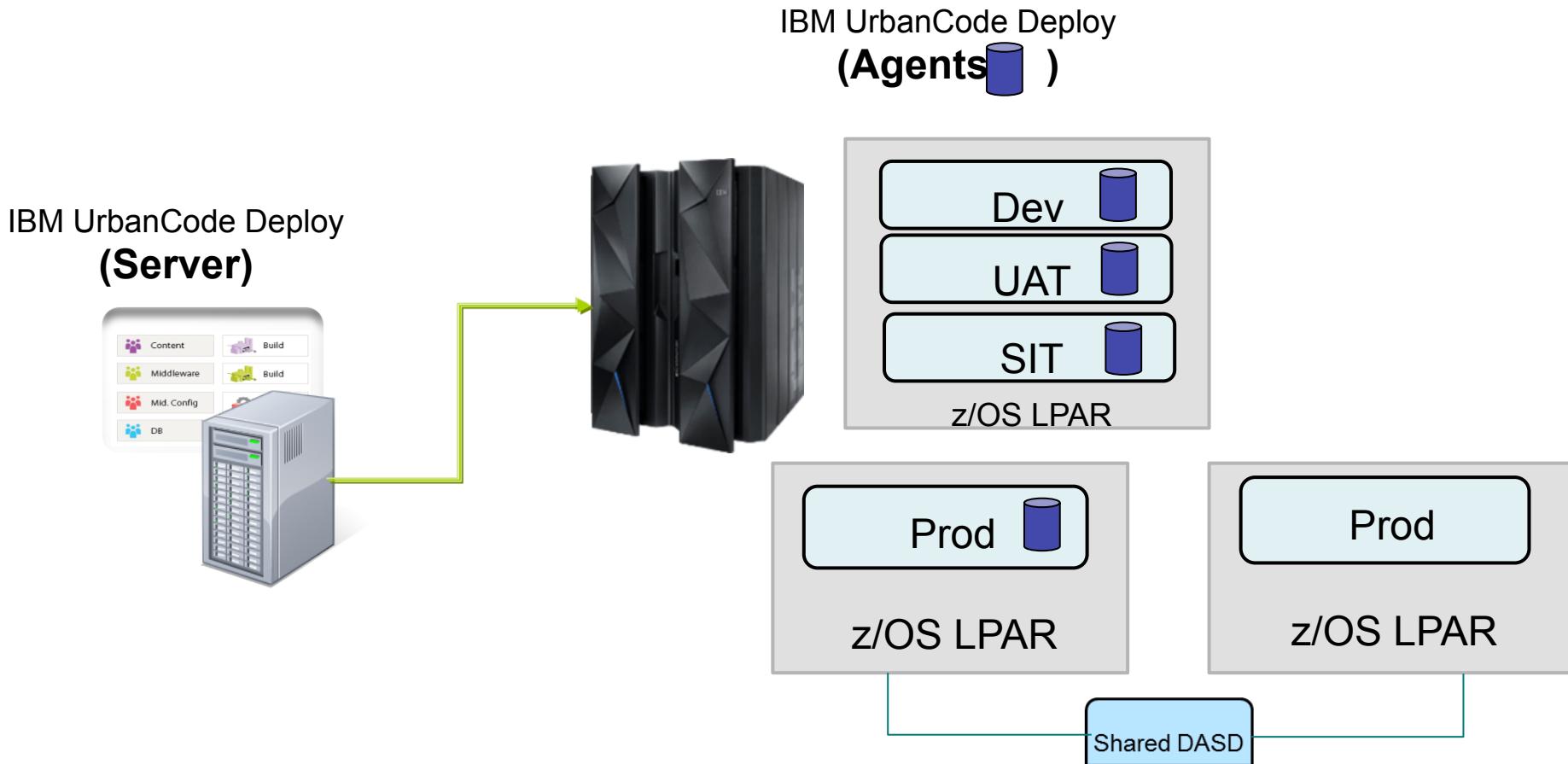
# High Level Overview of Deployment Capabilities



Note: LPARs can be the same or different LPARs

# Typical customer deployment scenario

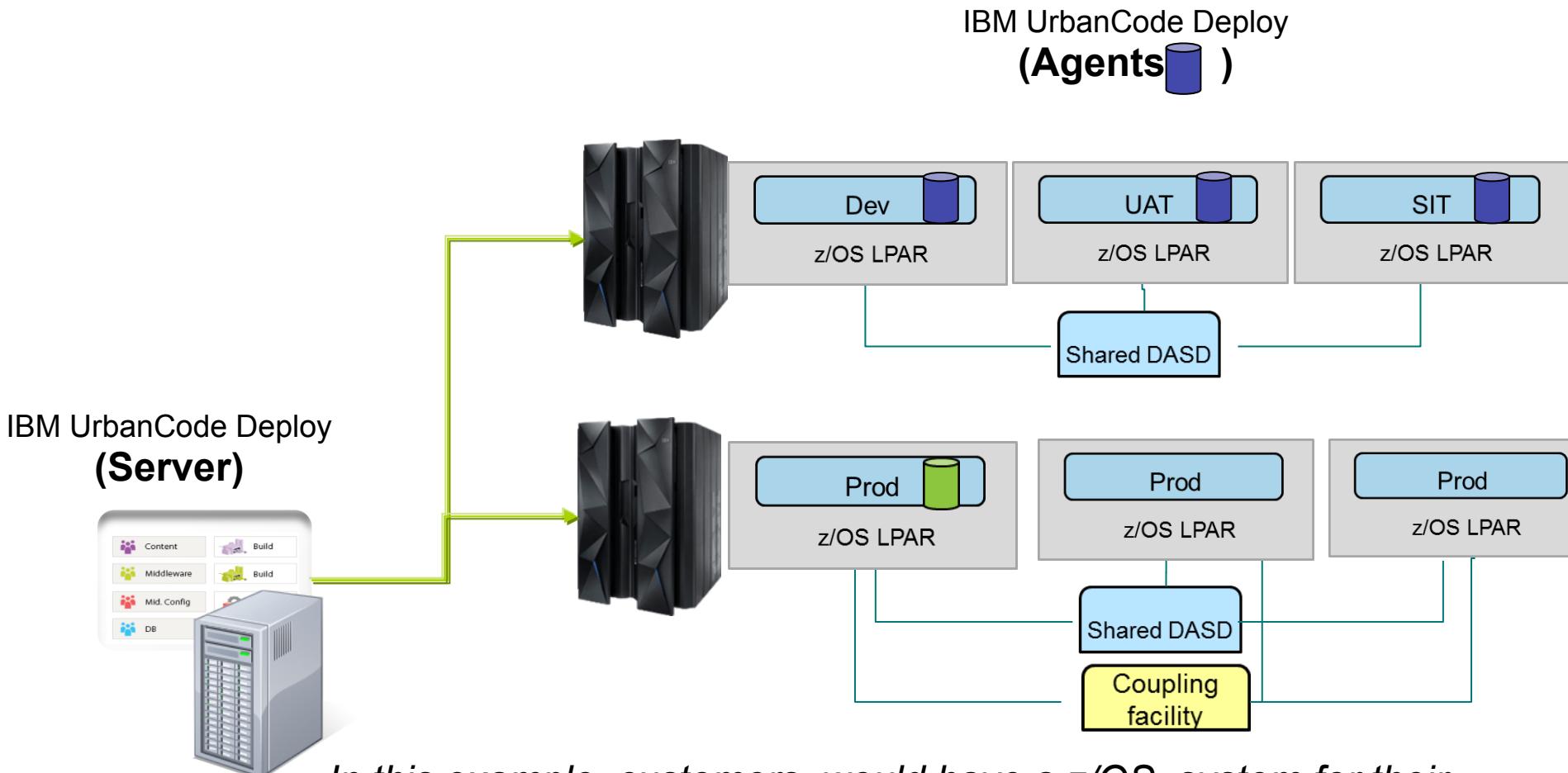
Small and Medium Enterprises



*In this example, customers would have one z/OS systems with Dev and Test environments on one LPAR and Production environments on two LPARs managed by shared DASD*

# Typical customer deployment scenario

Large Enterprises



*In this example, customers would have a z/OS system for their Dev and Test environments and a z/OS system for Production environments that is managed by shared DASD. This is typically replicated across data centers.*

**EXAMPLE IN SCREEN SHOTS**

IBM UrbanCode Deploy: Com... +

https://fit-vm18-254.rtp.raleigh.ibm.com:8443/#components

IBM UrbanCode Deploy... demo - Rational Test ... https://homestead-ser... http://homestead-ser... Most Visited Build RTC Server Admin RRC Project Dashboard: JKE... Worklight Console >

## IBM UrbanCode Deploy

dW admin IBM.

Dashboard Components Applications Configuration Processes Resources Calendar Work Items Reports Settings

Home > Components

Components Templates

Create New Component Import Components Select All... Actions... Flat list

<input type="checkbox"/>	Name	Template	Description	Created	By
<input type="checkbox"/>	HomeSteadCICS			5/26/14, 4:16 AM	admin
<input type="checkbox"/>	HomeSteadTesting		Test suites and virtual services for HomeStead backend	5/27/14, 4:37 PM	admin
<input type="checkbox"/>	HomeSteadWSBIND			5/26/14, 11:13 PM	admin
<input type="checkbox"/>	MortgageCICS			5/20/14, 1:18 AM	admin

4 records - Refresh Print

1 / 1 Rows 10

The screenshot shows the 'Components' tab selected in the navigation bar. Below the navigation bar, there are two tabs: 'Components' (which is active) and 'Templates'. A toolbar below the tabs includes buttons for 'Create New Component', 'Import Components', 'Select All...', 'Actions...', and 'Flat list'. The main area displays a table of components. The columns are: a checkbox column, 'Name', 'Template', 'Description', 'Created', and 'By'. There are four entries in the table:

- HomeSteadCICS (Created 5/26/14, 4:16 AM by admin)
- HomeSteadTesting (Description: Test suites and virtual services for HomeStead backend, Created 5/27/14, 4:37 PM by admin)
- HomeSteadWSBIND (Created 5/26/14, 11:13 PM by admin)
- MortgageCICS (Created 5/20/14, 1:18 AM by admin)

At the bottom left, it says '4 records - Refresh Print'. At the bottom right, there are buttons for 'Rows' (set to 10) and a dropdown arrow. The status bar at the bottom indicates '1 / 1'.

[Dashboard](#) | [Components](#)[Applications](#)[Configuration](#)[Processes](#)[Resources](#)[Calendar](#)[Work Items](#)[Reports](#)[Settings](#)

Home &gt; Applications &gt; HomeStead

## Application: HomeStead

Created By admin  
Created On 5/26/14, 4:42 AM

[Environments](#) [History](#) [Configuration](#) [Components](#) [Blueprints](#) [Snapshots](#) [Processes](#) [Calendar](#) [Changes](#)[Create New Environment](#)

Drag environments by their names to re-order them.

▼ Test		►	More...	Snapshot: None	Compliance: 10 / 10		
Component	Version	Snapshot	Properties	Status	Compliance	Actions	
Show Filters							
HomeSteadCICS	20140602-0613280462 (+ 8 more)	Version 1	Active	Compliant (9/9)	<a href="#">View Request</a>		
HomeSteadWSBIND	v2.3	Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>		

[Refresh](#) [Print](#)

▼ Production		►	More...	Snapshot: Release2	Compliance: 10 / 10		
Component	Version	Snapshot	Properties	Status	Compliance	Actions	
Show Filters							
HomeSteadCICS	20140602-0613280462 (+ 8 more)	Version 1	Active	Compliant (9/9)	<a href="#">View Request</a>		
HomeSteadWSBIND	v2.3	Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>		

[Refresh](#) [Print](#)

IBM UrbanCode Deploy... demo - Rational Test ... https://homestead-ser... http://homestead-ser... Most Visited Build RTC Server Admin RRC Project Dashboard: JKE... Worklight Console Task 166: Update NEW... IBM.

## IBM UrbanCode Deploy

dW admin ? IBM.

Dashboard Components Applications Configuration Processes Resources Calendar Work Items Reports Settings

Home > Applications > HomeStead

### Application: HomeStead

**Created By**

**Created On**

Environments	History	Logs
<b>Create New Environment</b> Drag environments by their names to re-arrange them.		
<b>Test</b> <ul style="list-style-type: none"> <li><b>Component</b></li> <li>HomeSteadCICS</li> <li>HomeSteadWSBIND</li> </ul> <a href="#">Refresh</a> <a href="#">Print</a>		
<b>Production</b> <ul style="list-style-type: none"> <li><b>Component</b></li> <li>HomeSteadCICS</li> <li>HomeSteadWSBIND</li> </ul> <a href="#">Refresh</a> <a href="#">Print</a>		

#### Inventory For HomeSteadCICS

Version	Type	Snapshot	Properties	Status	Compliance	Actions
20140602-0613280462	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140601-1429070234	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140531-0755360803	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140529-0001200580	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140528-2235570866	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140527-2306250244	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140527-1045450658	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140526-0934180440	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>
20140526-0439270192	Incremental		Version 1	Active	Compliant (1/1)	<a href="#">View Request</a>

[Show Filters](#)

Compliance: 10 / 10

Compliance	Actions
Compliant (9/9)	<a href="#">View Request</a>
Compliant (1/1)	<a href="#">View Request</a>

Compliance: 10 / 10

Compliance	Actions
Compliant (9/9)	<a href="#">View Request</a>
Compliant (1/1)	<a href="#">View Request</a>

IBM UrbanCode Deploy: Home... +

https://fit-vm18-254.rtp.raleigh.ibm.com:8443/#application/118af1a1-179d-403d-a152-9c3c45be5d9c/processes

IBM UrbanCode Deploy... demo - Rational Test ... https://homestead-ser... http://homestead-ser... Most Visited Build RTC Server Admin RRC Project Dashboard: JKE... Worklight Console Task 166: Update NEW... dw admin ? IBM.

## IBM UrbanCode Deploy

Dashboard Components Applications Configuration Processes Resources Calendar Work Items Reports Settings

Home > Applications > HomeStead

### Application: HomeStead

Created By admin  
Created On 5/26/14, 4:42 AM

Environments History Configuration Components Blueprints Snapshots Processes Calendar Changes

Create New Process

Process	Description	Actions
Deploy with DB2BIND CICS NEWCOPY and WSBIND		Edit Duplicate Delete
Remove all versions	Use this to reset demo environment (usually the prod)	Edit Duplicate Delete
Rollback		Edit Duplicate Delete
Test and Deploy with DB2BIND CICS NEWCOPY and WSBIND		Edit Duplicate Delete

4 records - Refresh Print

1 / 1 Rows 10

IBM UrbanCode Deploy: Proce... +

https://fit-vm18-254.rtp.raleigh.ibm.com:8443/#/applicationProcess/10535549-3eec-427f-8f16-6a890d1835f7/5

Google

IBM UrbanCode Deploy ... demo - Rational Test ... https://homestead-ser... http://homestead-ser... Most Visited Build RTC Server Admin RRC Project Dashboard: JKE... Worklight Console Task 166: Update NEW...

IBM UrbanCode Deploy

dW admin ? IBM.

Dashboard Components Applications Configuration Processes Resources Calendar Work Items Reports Settings

Home > Applications > HomeStead > Processes > Process: Deploy with DB2BIND CICS NEWCOPY and WSBIND

## Process: Deploy with DB2BIND CICS NEWCOPY and WSBIND

Version 5 of 5

Design Configuration Inventory Changes Changes

Tools

Step Palette

- Finish
- Install Component...
- Install Multiple Components...
- Uninstall Component...
- Rollback Component...
- Run Process for Each Version...
- Run Process for Each Affected Resource...
- Apply Configuration
- Utility Steps
- Clipboard

Note: Only components with operational processes (which do not require a version).

```
graph TD; Start((Start)) --> C1[Install HomeSteadCICS]; Start((Start)) --> C2[Install HomeSteadWSBIND]; C1 --> F((Finish)); C2 --> F((Finish));
```

The process starts at a 'Start' node, which branches into two parallel steps: 'Install HomeSteadCICS' and 'Install HomeSteadWSBIND'. Both steps lead to a final 'Finish' node. Each step has a green checkmark icon next to it, indicating successful execution.

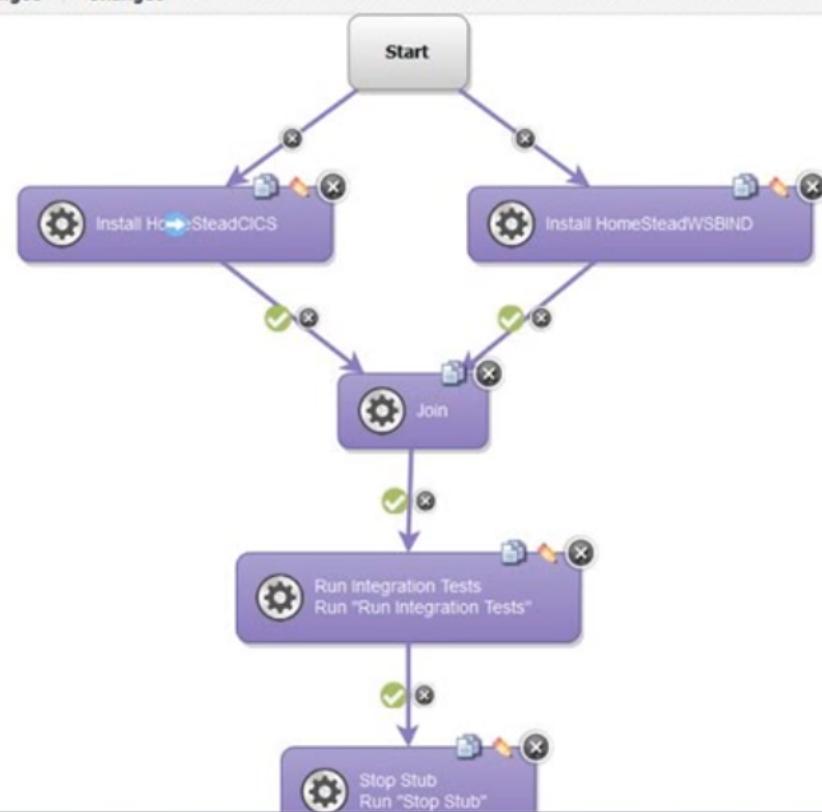
[Dashboard](#) | [Components](#) | [Applications](#) | Configuration | [Processes](#) | [Resources](#) | [Calendar](#) | [Work Items](#) | [Reports](#) | [Settings](#)

Home &gt; Applications &gt; HomeStead &gt; Processes &gt; Process: Test and Deploy with DB2BIND CICS NEWCOPY and WSBIND

## Process: Test and Deploy with DB2BIND CICS NEWCOPY and WSBIND

Version

8 of 8

[Design](#)[Configuration](#)[Inventory Changes](#)[Changes](#)

## Tools



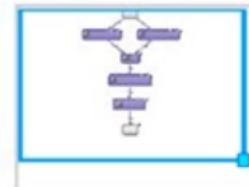
## Step Palette

[Expand All](#)[Collapse All](#)

- [Finish](#)
- [Install Component...](#)
- [Install Multiple Components...](#)
- [Uninstall Component...](#)
- [Rollback Component...](#)
- [Run Process for Each Version...](#)
- [Run Process for Each Affected Resource...](#)
- [Apply Configuration](#)

[Utility Steps](#)[Clipboard](#)

Note: Only components with operational processes (which do not require a version) are shown.



IBM UrbanCode Deploy: Hom... +

https://fit-vm18-254.rtp.raleigh.ibm.com:8443/#/component/a41c8723-dd29-433b-95cd-5128cceaa4c7/processes

IBM UrbanCode Deploy... demo - Rational Test ... https://homestead-ser... http://homestead-ser... Most Visited Build RTC Server Admin RRC Project Dashboard: JKE... Worklight Console Task 166: Update NEW... IBM.

IBM UrbanCode Deploy dW admin IBM.

Dashboard Components Applications Configuration Processes Resources Calendar Work Items Reports Settings

Home > Components > HomeSteadCICS

## Component: HomeSteadCICS

Created By admin  
Created On 5/26/14, 4:16 AM  
Used By HomeStead

Dashboard Usage Configuration Calendar Versions Processes Changes

Create New Process

Process	Description	Actions
Deploy with BIND and NE		Edit Copy Delete
Empty process		Edit Copy Delete
Rollback		Edit Copy Delete

3 records - Refresh Print

1 / 1 Rows 10

## Process: Deploy with BIND and NEWCOPY

Version

6 of 6

&lt; &gt; &gt;&gt;

Design

Configuration

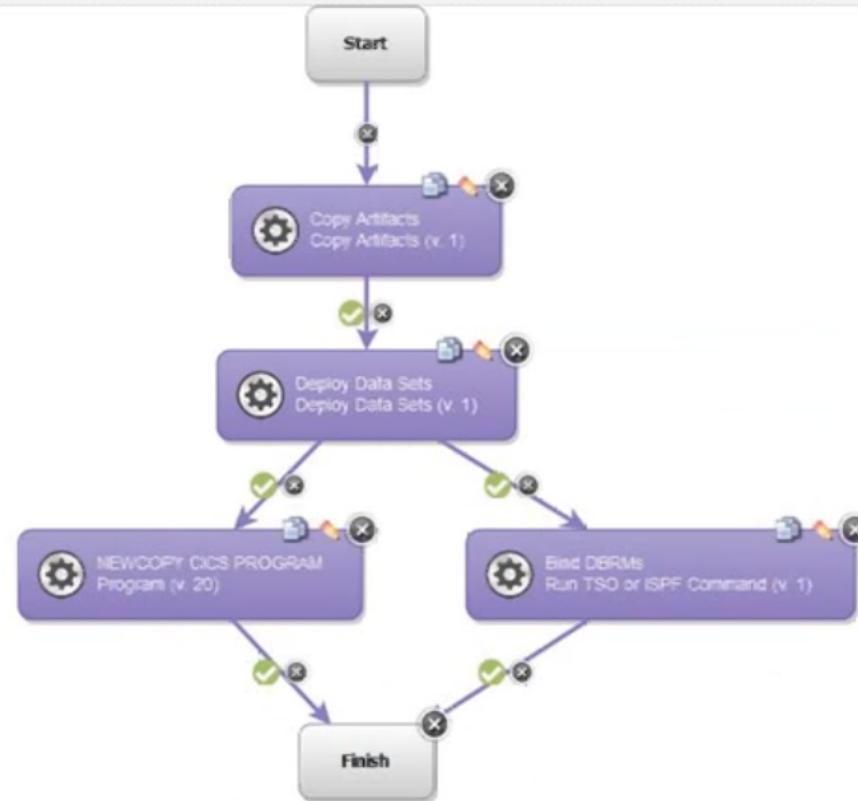
Changes

**Tools**

**Step Palette**

Expand All Collapse All

- Finish
- Clipboard
- Utility Steps
- CICS
- IBM UrbanCode Deploy
- Quality
- Repositories
- Resource Tools
- Scripting
- System Utility
- Utilities



## Process: Deploy with BIND and NEWCOPY

Version

Design

Configuration

Changes

Tools



## Step Palette

Expand All Collapse All

Finish

Clipboard

Utility Steps

CICS

IBM UrbanCode Deploy

Quality

Repositories

Resource Tools

Scripting

System Utility

Utilities

## Edit Properties

Name \*

Deploy Data Sets

PDS Mapping

JAZZ00 HOMESTED LOAD,CICSTS51.CICSTS51.APPL.  
LOAD  
JAZZ00 HOMESTED.DBRM,CICSTS51.CICSTS51.APPL.  
DBRM

Check Access



Working Directory

Post Processing Script

Step Default

New

Precondition

Use Impersonation



Show Hidden Properties



z/OS Toolkit Home

\${p:ucd.toolkit.home}

Deployment Base Path \*

\${p:deploy.base.path}

Use Environment PDS Mapping



Environment PDS Mapping

\${p:deploy.env.pds.mapping}

Version Name \*

\${p:version.name}

Component Name \*

\${p:component.name}

Save

Cancel

## Process: Deploy with BIND

Version

Design

Configuration

Changes

Tools



Step Palette

Expand All Collapse All

Finish

Clipboard

Utility Steps

CICS

IBM UrbanCode Deploy

Quality

Repositories

Resource Tools

Scripting

System Utility

Utilities

### Edit Properties

Name \* Bind DBRMs

TSO or ISPF \*

ISPF

Command to run from ISPF \*

EXEC 'JAZZ00.HOMESTED.REXX(BINDPACK)'  
'\${dataset}(\${member})'

For each \*

Member

With deploy type

DBRM

Run in a 'reusable' ISPF session

Show operation Log

ISPF TSO profile

Working Directory

Post Processing Script

Check BIND Output

New

Edit

Precondition

Use Impersonation

Show Hidden Properties

ISPF Gateway Path \*

/usr/lpp/ispf/bin

Deployment Base Path

\$(p.deploy.base.path)

Version Name

\$(p.version.name)

Component Name

\$(p.component.name)

Save

Cancel

IBM UrbanCode Deploy... demo - Rational Test... https://homestead-ser... http://homestead-ser... Most Visited Build RTC Server Admin RRC Project Dashboard: JKE... Worklight Console Task 166: Update NEW...

**Process** NEWCOPY and WSBIND (Version 5)

**Environment** Test

**Only Changed Versions** true

**Date Requested** 6/19/14, 11:44 AM

**Requested By** admin

**Scheduled For** 6/19/14, 11:44 AM

[View Deployment Request](#)

**Log** **Properties** **Manifest**

**Execution**  Dock timeline at top

Start	Progress	Status	Duration	End
11:44:17 AM	1 / 1	Failed	0:00:04	11:44:22 AM

[Expand All](#) [Collapse All](#)

Step	▲ Progress	Start Time	Duration	Status
» 1. Install HomeSteadCICS	1 / 1	11:44:17 AM	0:00:04	Failed
» HomeSteadCICS	1 / 1	11:44:17 AM	0:00:04	Failed
» Deploy with BIND and NEWCOPY (HomeSteadCICS 20140619-1139480815 )	1 / 1	11:44:17 AM	0:00:04	Failed
1. <b>Copy Artifacts</b> <b>(zOS Utility v. 1.528572)</b>	1 / 1	11:44:18 AM	0:00:04	Failed
3.  NEWCOPY CICS PROGRAM				Not Started
4.  Bind DBRMs				Not Started
» 2. Install HomeSteadWSBIND	0 / 0	11:44:17 AM	0:00:00	Success
<b>Total Execution</b>	1 / 1	11:44:17 AM	0:00:04	Failed

## Deployment of Component: HomeSteadCICS

Process Deploy with BIND and NEWCOPY  
(Version 6)  
Version 20140602-0613280462  
Resource HomeSteadCICS  
Agent mvs144.rtp.raleigh.ibm.com  
Date 6/11/14, 2:45 AM  
Requested By admin

[Log](#) [Properties](#)

### Execution

Dock timeline at top



[Expand All](#) [Collapse All](#)

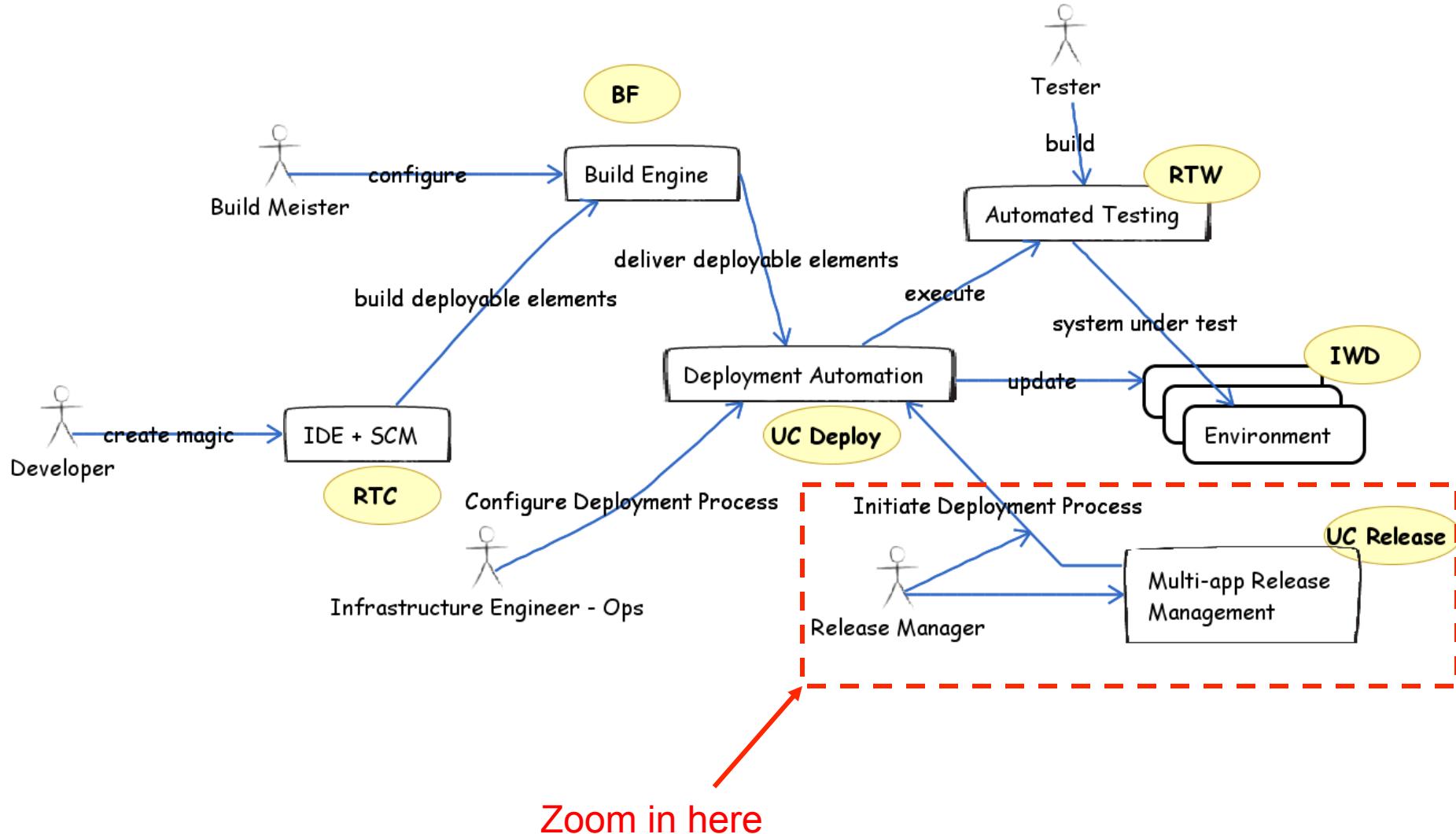
Step	Progress	Start Time	Duration	Status
1. O° Copy Artifacts	::	2:45:53 AM	0:00.04	Success
2. O° Deploy Data Sets	::	2:45:57 AM	0:00.18	Success
3. O° NEWCOPY CICS PROGRAM	::	2:46.16 AM	0:00.07	Success
4. O° Bind DBRMs	100%	2:46.16 AM	0:00.08	Success

(zOS Utility v. 1.528572)

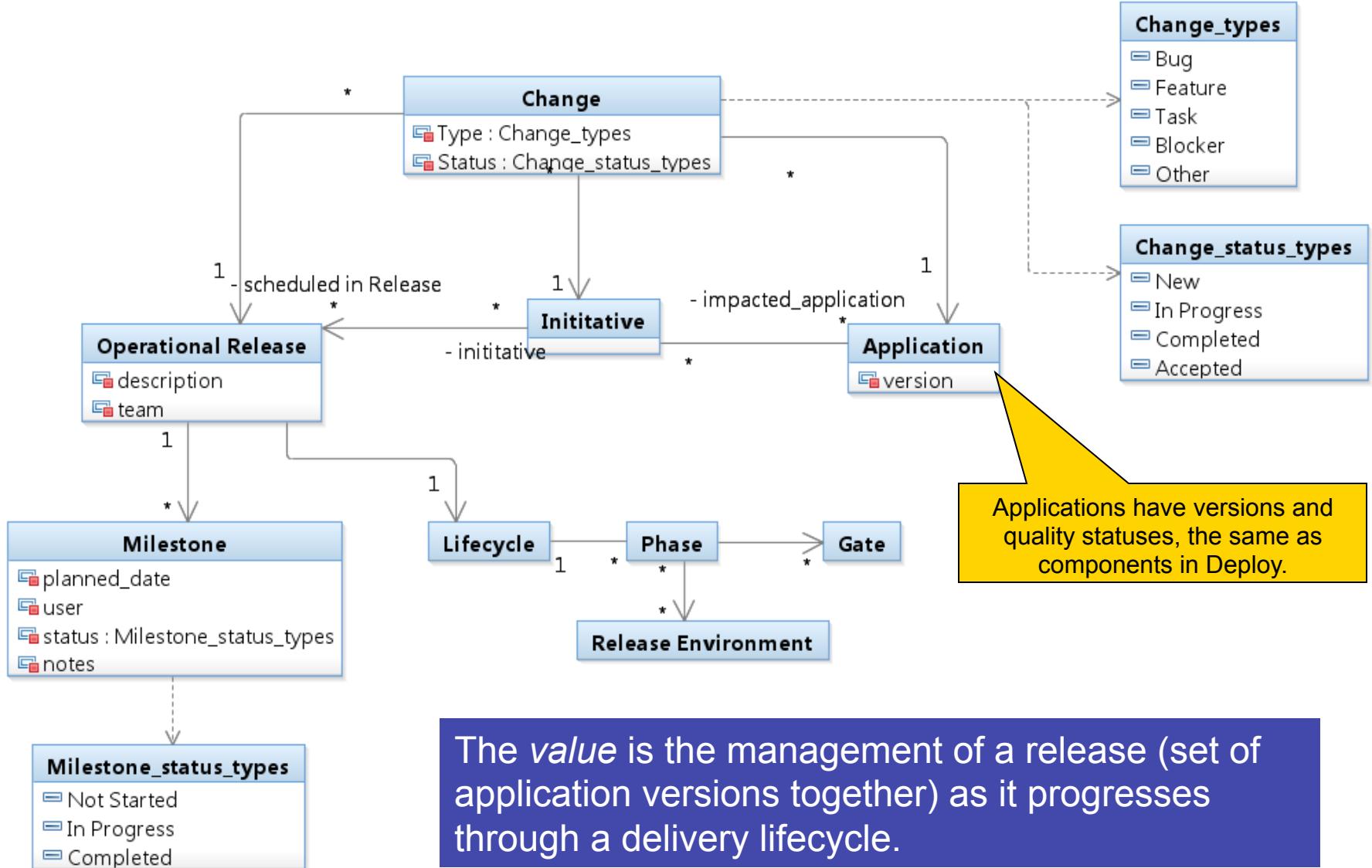
[Output Log](#) 4 / 4 2:45:53 AM 0:00:31

# **OTHER SLIDES**

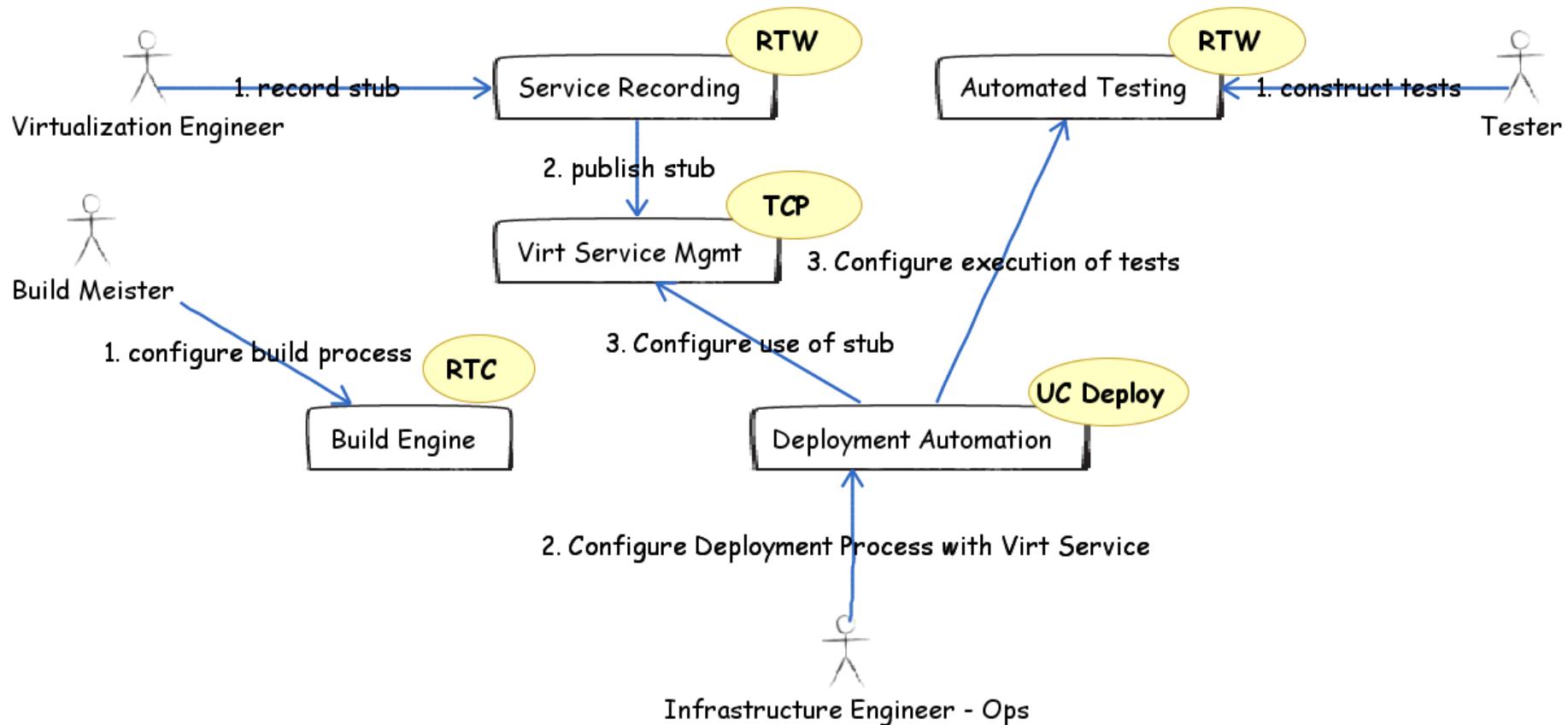
# Get Your Tissues - Nose Bleed View



# Operational Release Deliverables and States



# Deploy with Virtual Service - Preparation



# Deploy with Virtual Service - Execution

