

Implementing a ClearCase System/i SCM Solution

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IBM Rational Software Development Conference UK 2007



▶ What keeps me **Rational**?



CM-Logic Ltd.

- **Leading IBM Rational Advanced VAP Partner & Reseller and Tier1 Service Provider**
- **Professional Services & Solutions Development specialising in Software Change Management**
- **Established in 2001 by leading Experts in Configuration Mgt.**
- **Working with Rational ClearCase since Version 1.0 in 1991.**
- **All consultants are IBM Certified and with a minimum 6 years experience.**
- **Corporate HQ in Theale, Berkshire.**
 - ▶ **With Offices in Dublin**



Agenda

- The Problem
- The Solution
- Questions?



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- The Solution
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The Problem

- The Business Requirement
 - ▶ Customer Profile:
 - Major finance organization based in the UK
 - Approximately 400 System I modules: RPG, DB2.
 - Approximately 100 java apps.
 - Development Process
 - Few large, long term projects with ongoing software support for all of them
 - Can be any combination of RPG, java.
 - Development tasks performed in 3 major sites around the globe + third party contractors on and off sites.



The Problem Cont'd

- Host environment:
 - ▶ No SCM tool for Legacy code.
 - ▶ Modules manually copied down from production to development
 - ▶ Manual sign-off and promotion process
 - ▶ Environment Stages
 - Development
 - Test
 - Production
 - On Going Support (Service Packs and Hot Fixes)



The Problem Cont'd

- Distributed Environment
 - ▶ WSAD 6
 - ▶ Source code management with CVS
 - ▶ Applications built once for test environment, again for production
 - ▶ Manual copying of apps to test and production environments
 - ▶ Manual coordination of System I and distributed application promotion
 - ▶ Manual rollback.

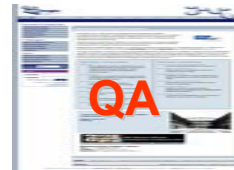
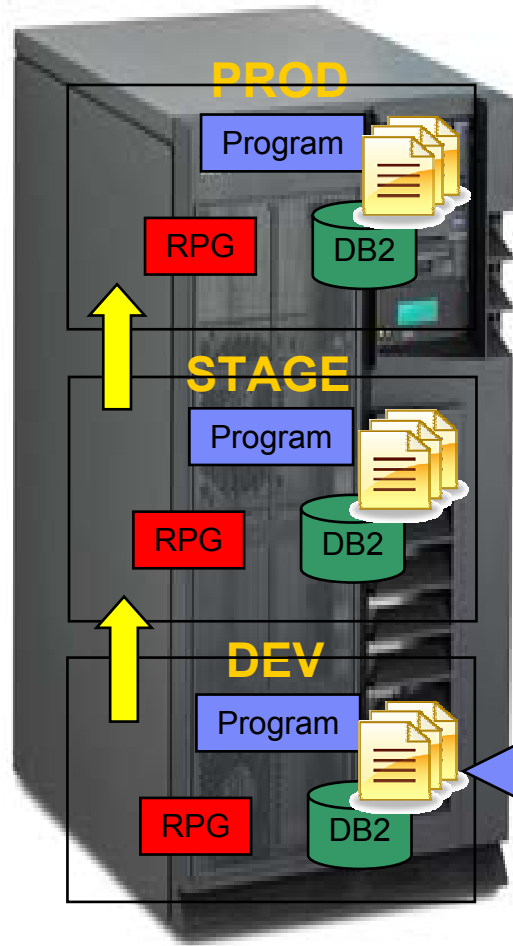


The Pain

- The concerns
 - ▶ No traceability: legacy -> distributed apps
 - ▶ No traceability: development -> test -> production
 - ▶ No means for coordinated promotions or back outs
 - ▶ Audit exposure
- What they were looking for
 - ▶ Coordinated and linked promotions of legacy and distributed components
 - ▶ Single, central point for application lifecycle management
 - ▶ Automated recordkeeping and tracking of development activities for both legacy and distributed.
- *Comprehensive application lifecycle management*



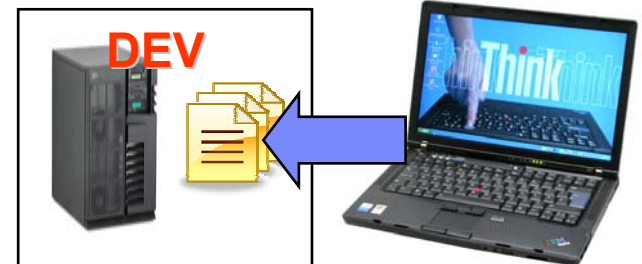
In other words, To go from this...



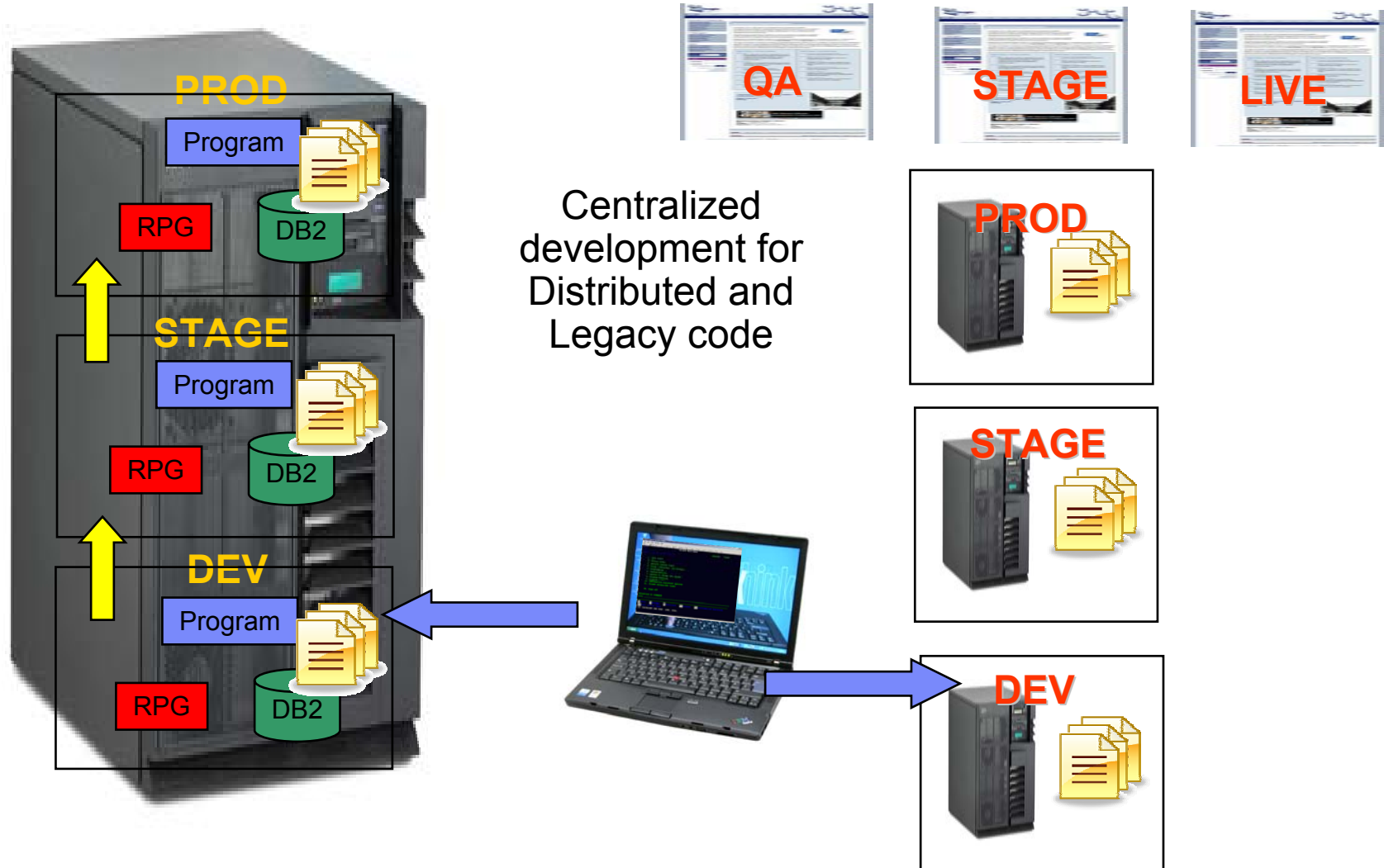
Legacy development



Distributed development



To this...



Solution

- Single, central point for application lifecycle management
- Automated recordkeeping and tracking of development activities
- Code and tracking replication between development sites
- Managed, parameterized builds
- Coordinated and linked promotions of host and distributed components

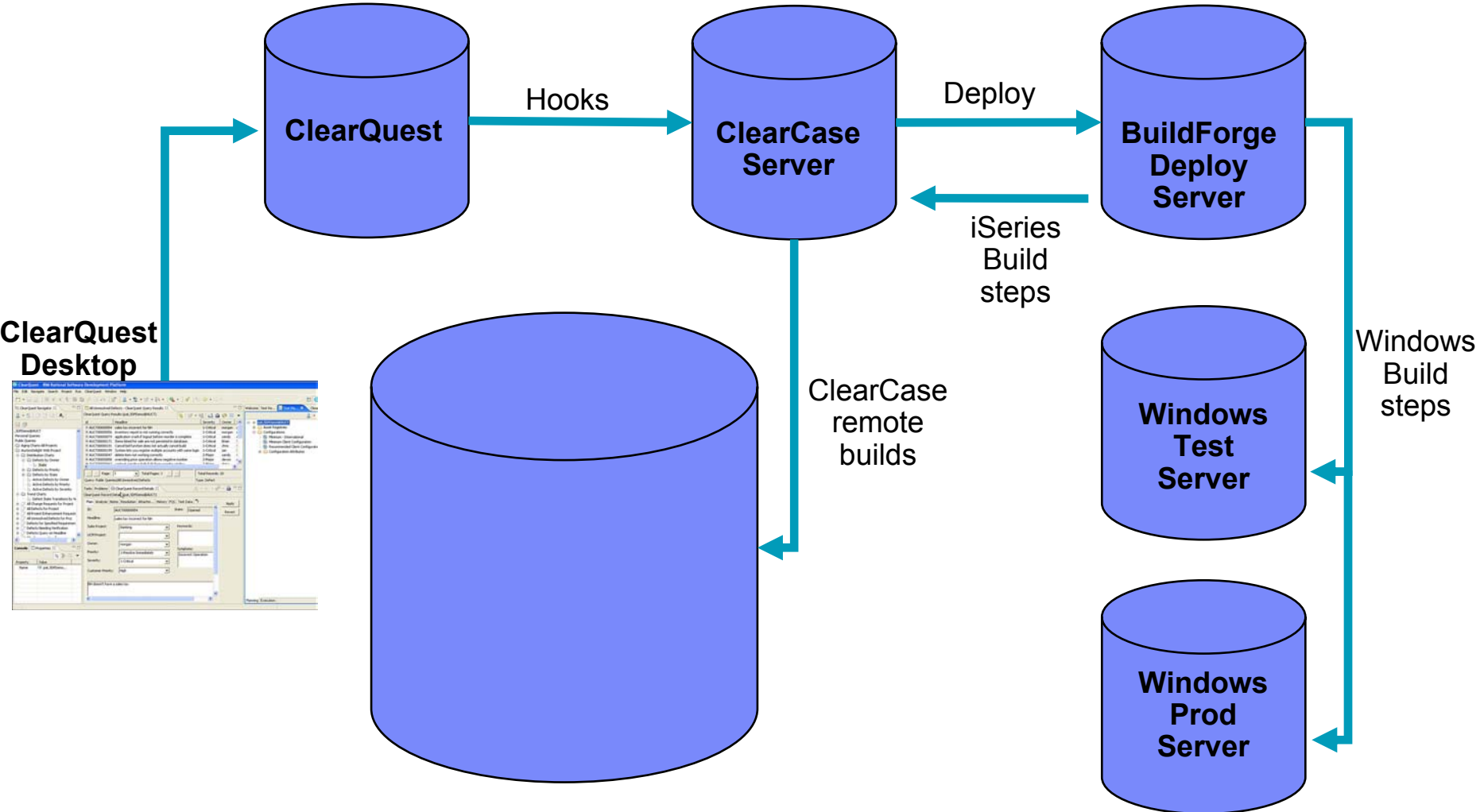


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ClearQuest Application Management Architecture

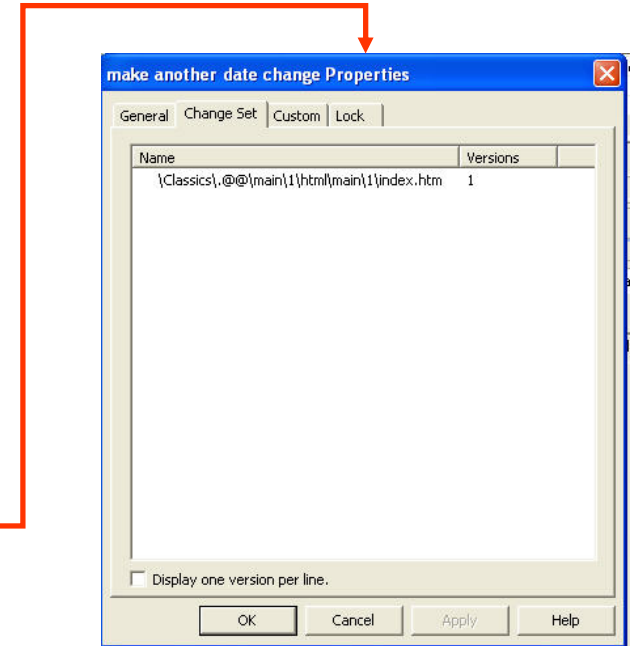
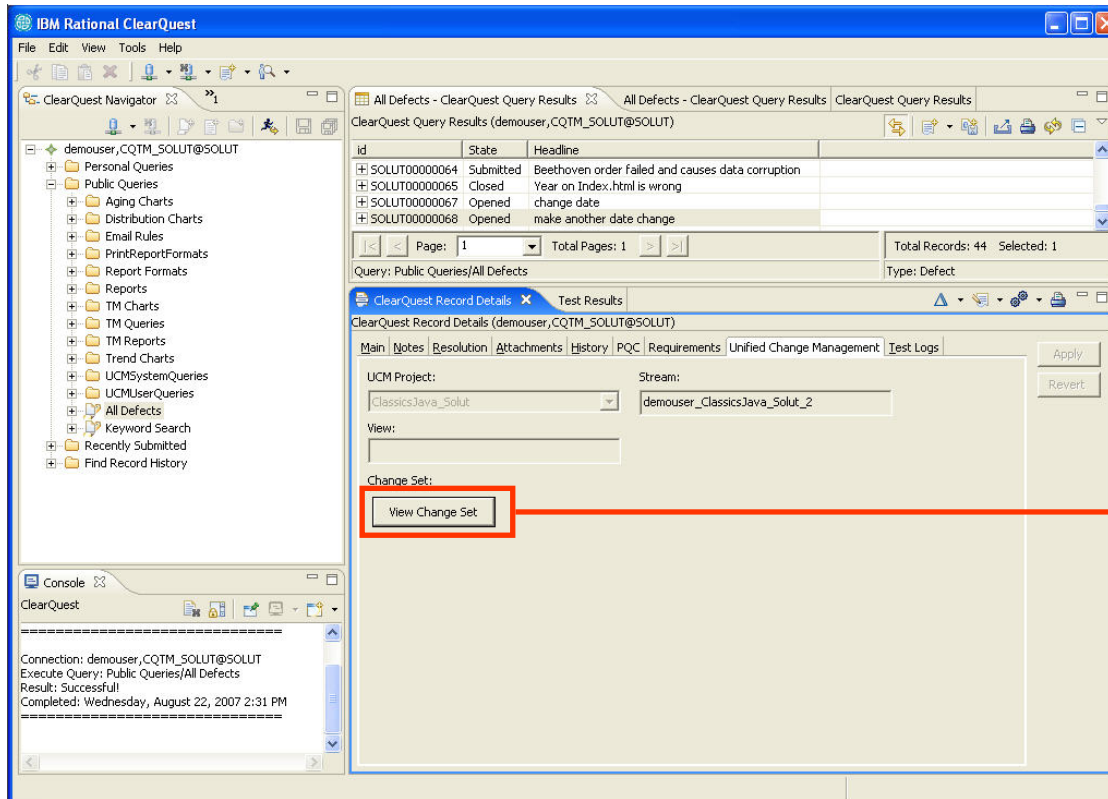


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Change sets managed using ClearQuest/UCM

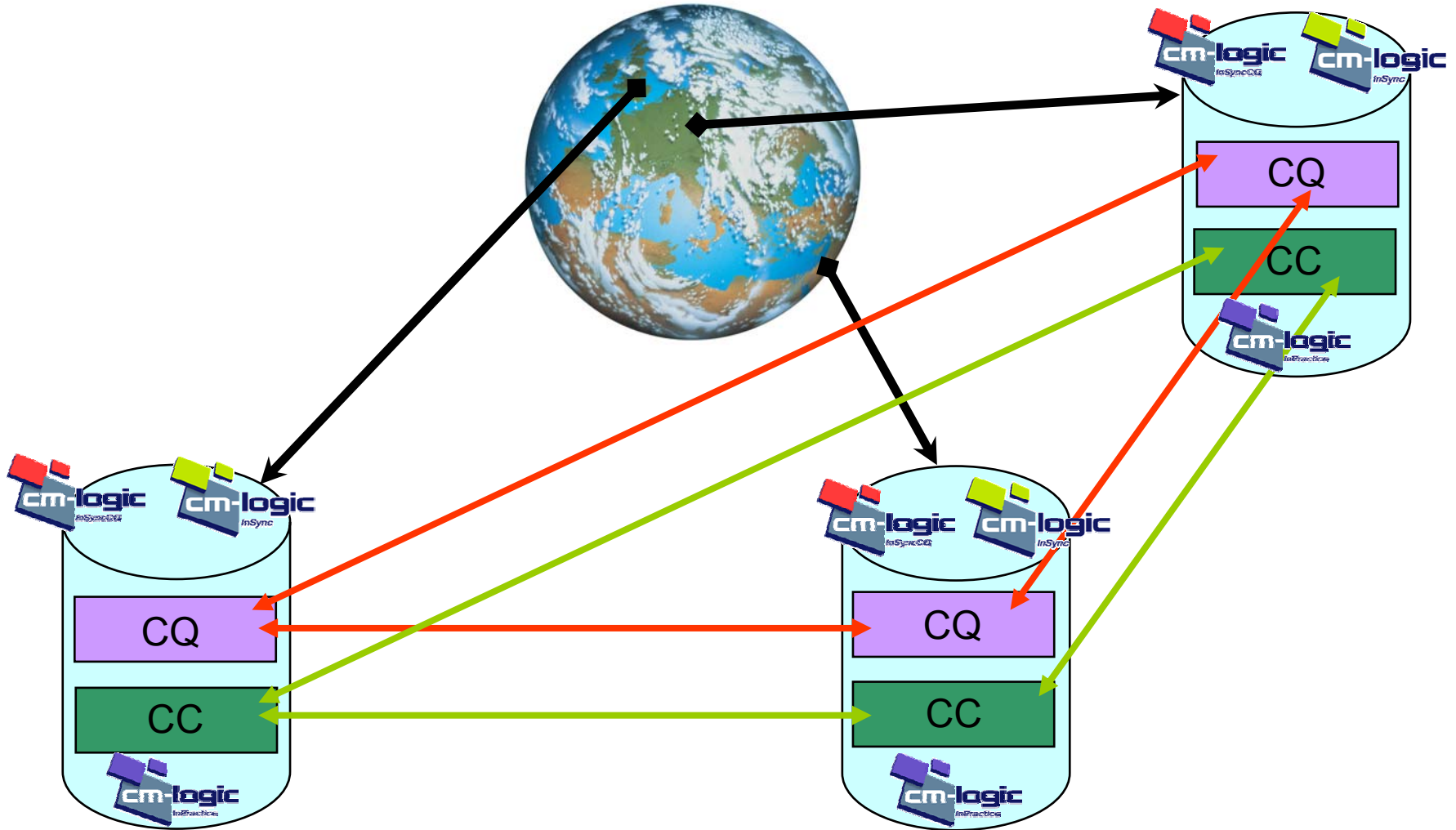


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ClearCase and ClearQuest Multisite

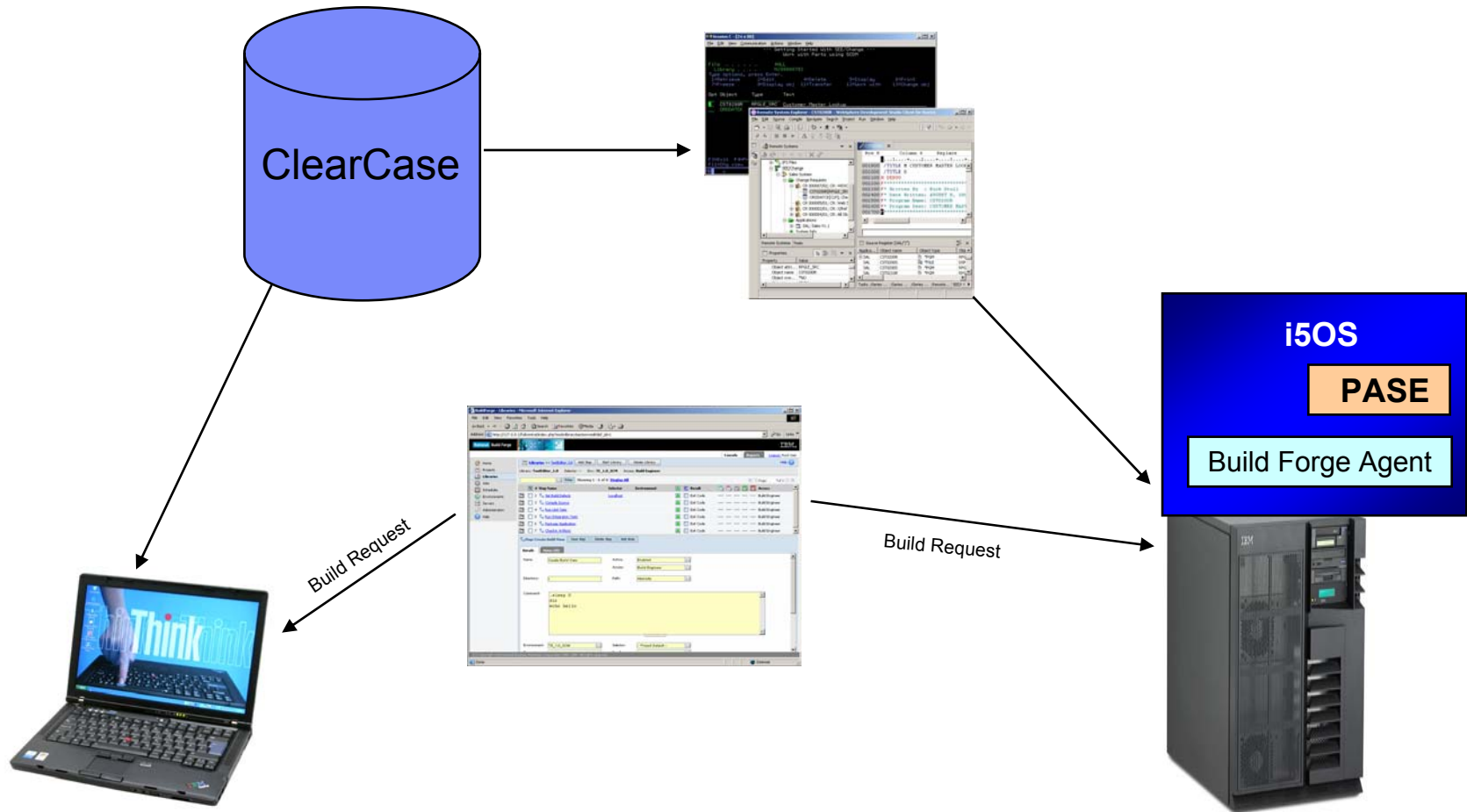


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ClearCase System I Remote Builds

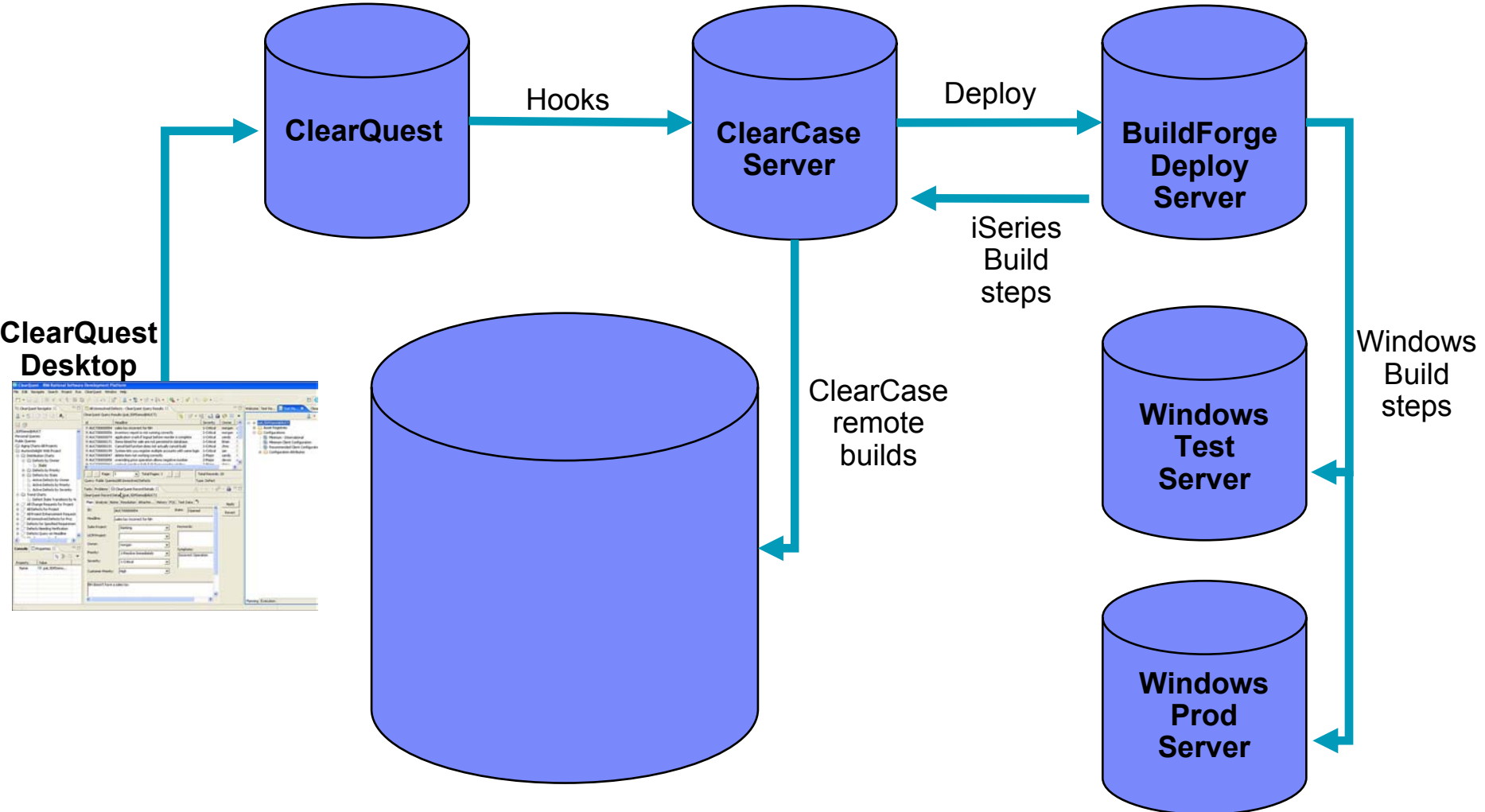


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ClearQuest Activities based Build and Deploy



File Edit View Go Bookmarks Tools Help

http://localhost:81/fulcontrol/index.php?mod=projects&action=edit&bf_id=3

Customize Links E-Mail & More Free Hotmail Help & Support IBM Business Transfo... IBM Business Transfo... IBM Internal Help IBM Standard Softwa... IBM Standard Software IT Help Central Join World Communit...

Rational Build Forge

Console Reports Logout: Root User

Home Projects Libraries Project Runs Schedules Environments Servers Administration Online Help

Projects Filter

Combined Build Employees COBOL_COMPILE

Projects >> Employees Add Step

Project: Employees Selector: Systest Env: -- Access: Build Engineer

Start Project Copy Project Delete Project

Filter Showing 1 - 1 of 1 Page 1 of 1

Disable	#	Step Name	Selector	Env	Result	Pilotify	Flotify	Inline	Pass	Fail	Access
<input type="checkbox"/>	1	COBOL_COMPILE			Exit Code	----		----			Build Engineer

Step: COBOL_COMPILE Save Step Delete Step Add Note

Step Details Notes

Disable Name: COBOL_COMPILE Access: Build Engineer

Absolute Dir: /

Command:

Result: Exit Code Timeout: 300 Pass Notify: -- None --

Continue: Environment: -- None -- Pass Chain: Library: Rational for System z Enterprise App

Selector: -- Project Default -- Inline: -- None -- Pass Wait:

Broadcast: Thread: NO Fail Notify: Build Engineer

Fail Chain: Library: Rational for System z Enterprise App

Fail Wait:

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Done





Questions





Thank You

Saar Netzer

