Smarter systems for a smarter planet.

Business Agility in Action

The event series on BPM, SOA and Application Integration

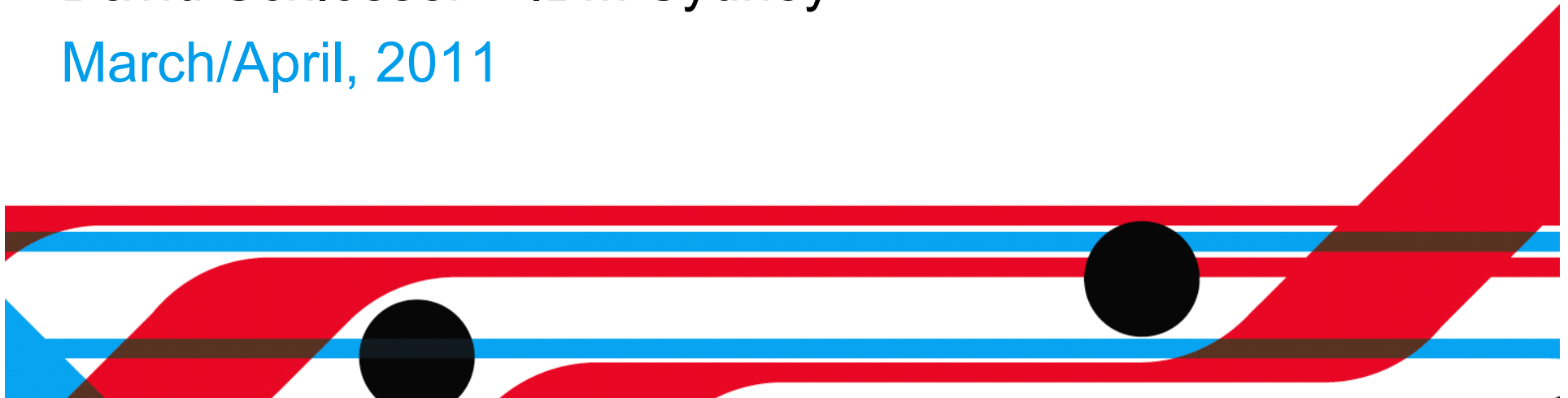Give your business the flexibility it needs to capitalise on change.

IBM WebSphere Cloudburst:
A patterns-based approach to the cloud

David Schlosser – IBM Sydney

March/April, 2011

# We need a better way manage application environments

- Setting up meaningful application environments takes too long

- Recreating or migrating application environments is too hard

- Sharing infrastructure resources limited by the first two problems

Virtualisation – image design

- Burn the big things into the image

- Prebuild the slow things

- Script for deployment variants

WebSphere

HTTP server

OS

profile

WebSphere

HTTP server

OS
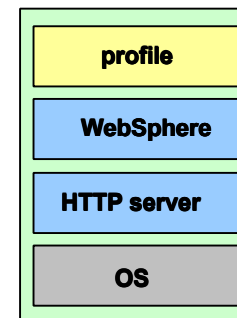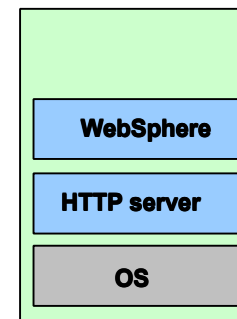
Patches

WebSphere config

OS and Network config

Enhanced Image - Parameterisation & activation

STEP 1

Install software

profiles
WebSphere
HTTP server
OS

VM template

+

STEP 2

Add Customisation

Activation Framework

- Other Scripts
- WebSphere config
- OS and Network config

=

STEP 3

Copy

profiles
WebSphere
HTTP server
OS

Activation Framework

STEP 4

Activate

VM

profiles
WebSphere
HTTP server
OS

Activation Framework

Hypervisor

Boot virtual machine and activate

DMTF

Open Virtualization Format

But virtualisation is not enough

- Middleware application environments often require more than a single VM

- In this case, getting a VM fast only gets you so far

- You still retain responsibility for orchestration of inter-VM configuration

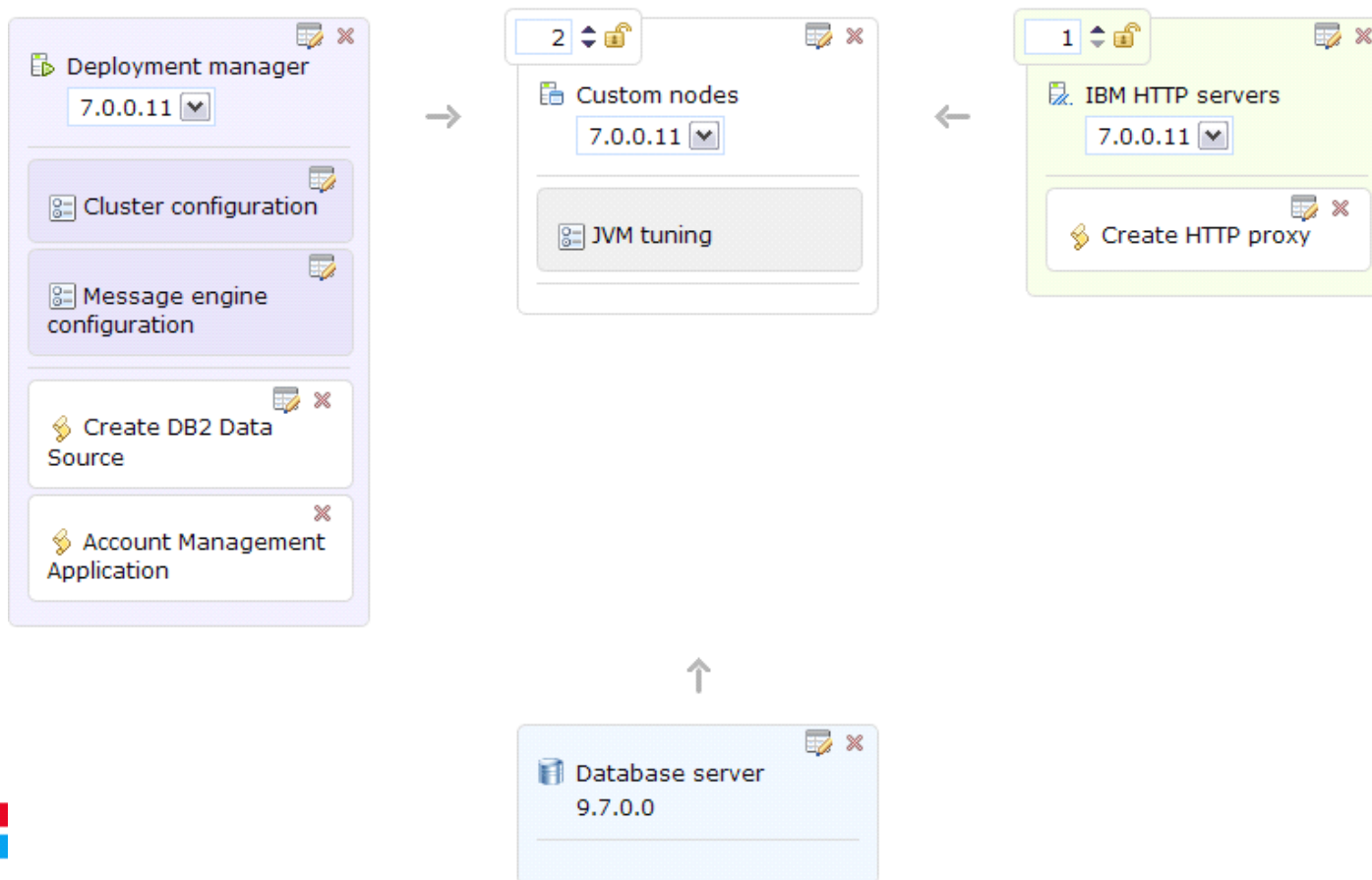# Patterns bridge the gap

- Patterns are *deployable* units
- Patterns encapsulate and automate installation, configuration, and integration

File   Edit   View   History   Bookmarks   Tools   Help

WebSphere CloudBurst

WebSphere CloudBurst

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Welcome to WebSphere CloudBurst!

WebSphere CloudBurst is a hardware appliance that automates and optimizes the deployment of WebSphere Application Server environments.

Deployment made easier

Step 1: Set up the appliance

Customize the appliance settings and create user accounts. You can also create user groups.

Customize settings | Create users

Step 2: Set up the cloud

Create the cloud by identifying IP groups and collections of hypervisors called cloud groups.

Add IP groups | Add cloud groups

Step 3: Create a virtual system

Create a virtual system by deploying a reusable pattern.

Select a pattern to deploy

Step 4: View virtual systems

View the current status, metrics, and details of virtual systems in the cloud.

View virtual systems

Additional tasks

Add virtual images

Provide new virtual images to the catalog by uploading files or extending pre-built images.

Add virtual images

Add script packages

Provide your custom scripts and applications to the catalog.

Add script packages

Create reusable patterns

Create a custom pattern from the items in the catalog.

Create patterns

Use command line tools

Perform administrative and deployment tasks from the command line.

Download now!

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- Virtual Images
- Product Licenses
- Script Packages
- Emergency Fixes

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Patterns

Search...

PortalDemo cluster (ds)

WebSphere Message Broker 7.0.0.1 (Advanced)

WebSphere Message Broker 7.0.0.1 (Basic)

WebSphere advanced cluster

WebSphere advanced cluster (development)

WebSphere cluster

WebSphere cluster (development)

WebSphere cluster (large topology)

WebSphere single server

WebSphere single server with sample

Select an item from the list for details and options

IBM.   WebSphere.

WebSphere CloudBurst   ⊹

WebSphere CloudBurst

Patterns   ✚

Search...   ↑↓▾

PortalDemo cluster (ds)   🖉

WebSphere   Test   Broker 7.0.0.1 (Advanced)   🖉

WebSphere Message Broker 7.0.0.1 (Basic)   🖉

WebSphere advanced cluster   ✅

WebSphere advanced cluster (development)   ✅

WebSphere cluster   ✅

WebSphere cluster (development)   ✅

WebSphere cluster (large topology)   ✅

WebSphere single server   ✅

WebSphere single server with sample   ✅

Select an item from the list for details and options

IBM.   WebSphere.

WebSphere CloudBurst   ⊹   ▼

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▾   Cloud ▾   Appliance ▾   Profile   Logout

Patterns ⊹		**PortalDemo cluster (ds)** ⚓ 📥 ✏ 🗐 🔒 ✕

Search...   ↑↓▾

PortalDemo cluster (ds)	✏
WebSphere Messag[ ]er 7.0.0.1 (Advanced)	✏
WebSphere Message Broker 7.0.0.1 (Basic)	✏
WebSphere advanced cluster	✅
WebSphere advanced cluster (development)	✅
WebSphere cluster	✅
WebSphere cluster (development)	✅
WebSphere cluster (large topology)	✅
WebSphere single server	✅
WebSphere single server with sample	✅

Test

Description: Test

Created on: Feb 3, 2011 8:47:19 AM

Current status: ✏ Draft

Updated on: Feb 3, 2011 9:12:31 AM

In the cloud now: PortalDemo Cluster (test)

Access granted to: Administrator [owner]

                        Everyone [all]

Topology for this pattern:

Deploys to ESX hypervisors.

📥 Deployment manager 🗔		📄 IBM HTTP servers 🗔
70		70

⊙ Remote DB2 🗔	⊙ Portal Part 🗔	⊙ Portal Part 🗔
70	70	70

⊞ Comments   There are no comments yet

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WebSphere CloudBurst   ⊹   ▾

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Patterns ✚	**PortalDemo cluster (ds)**

Search...   ↑↓

PortalDemo cluster (ds)   ✏

WebSphere Message Broker 7.0.0.1 (Advanced)   ✏

WebSphere Message Broker 7.0.0.1 (Basic)   ✏

WebSphere advanced cluster   ✔

WebSphere advanced cluster (development)   ✔

WebSphere cluster   ✔

WebSphere cluster (development)   ✔

WebSphere cluster (large topology)   ✔

WebSphere single server   ✔
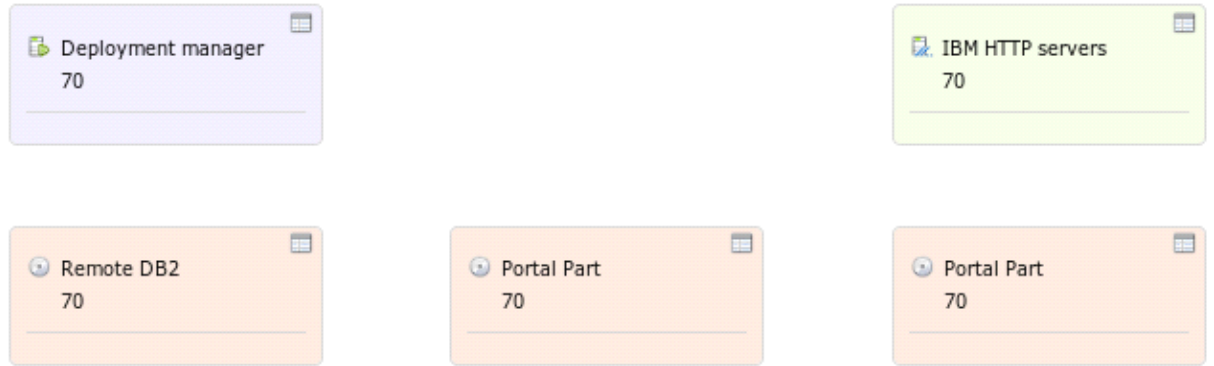
WebSphere single server with sample   ✔

New

Description: Test

Created on: Feb 3, 2011 8:47:19 AM

Current status: ✏ Draft

Updated on: Feb 3, 2011 9:12:31 AM

In the cloud now: PortalDemo Cluster (test)

Access granted to: Administrator [owner]

                        Everyone [all]

Topology for this pattern:

Deploys to ESX hypervisors.

📤 Deployment manager 70		📄 IBM HTTP servers 70

🕐 Remote DB2 70	🕐 Portal Part 70	🕐 Portal Part 70

⊞ Comments   There are no comments yet

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▾   Cloud ▾   Appliance ▾   Profile   Logout

Patterns   ⊞   **PortalDemo cluster (ds)**   🐦 🔧 ✏ 🗐 🔒 ✖

Search...   ⇅▾   Description: Test
                                                                          - - - -
PortalDemo cluster (ds)   ✏   Created on: Feb 3, 2011 8:47:19 AM

WebSphere Message Broker 7.0.0.1 (Advanced)   ✏   Current status: ✏ Draft

WebSphere Message Broker 7.0.0.1 (Basic)   ✏   Updated on: Feb 3, 2011 9:12:31 AM

WebSphere advanced cluster   ✅   In the cloud now: PortalDemo Cluster (test)

WebSphere advanced cluster (development)   ✅

WebSphere cluster   ✅

WebSphere cluster (development)   ✅   Describe the pattern you want to add.

WebSphere cluster (large topology)   ✅

WebSphere single server   ✅   *   Name: A unique pattern name

WebSphere single server with sample   ✅   Description: A detailed description

                                                                          OK   Cancel   📋 IBM HTTP servers
                                                                                                                      70

                                                                          ⊙ Remote DB2   ⊙ Portal Part   ⊙ Portal Part
                                                                          70   70   70

                                                          ⊞ Comments   There are no comments yet

IBM.   WebSphere.

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▼   Cloud ▼   Appliance ▼   Profile   Logout

Patterns   ✚   **PortalDemo cluster (ds)**

Search...   ↕▼   Description: Test

PortalDemo cluster (ds)   ✏️   Created on: Feb 3, 2011 8:47:19 AM

WebSphere Message Broker 7.0.0.1 (Advanced) ✏️   Current status: ✏️ Draft

WebSphere Message Broker 7.0.0.1 (Basic)   ✏️   Updated on: Feb 3, 2011 9:12:31 AM

WebSphere advanced cluster   In the cloud now: PortalDemo Cluster (test)

WebSphere advanced cluster (development)

WebSphere cluster

WebSphere cluster (development)

WebSphere cluster (large topology)

WebSphere single server

WebSphere single server with sample

Describe the pattern you want to add.

* Name: BAIA_dev

Description: Business Agility In Action demo

OK   Cancel

IBM HTTP servers
70

Remote DB2   Portal Part   Portal Part
70   70   70

➕ Comments   There are no comments yet

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▼   Cloud ▼   Appliance ▼   Profile   Logout

Patterns ✚	**BAIA_dev** ⚓ ☁ ✏ ▣ 🔒 ✖

Search...   ↑↓▼

| BAIA_dev   ✏ |
| PortalDemo cluster (ds)   ✏ |
| WebSphere Message Broker 7.0.0.1 (Advanced)   ✏ |
| WebSphere Message Broker 7.0.0.1 (Basic)   ✏ |
| WebSphere advanced cluster   ✅ |
| WebSphere advanced cluster (development)   ✅ |
| WebSphere cluster   ✅ |
| WebSphere cluster (development)   ✅ |
| WebSphere cluster (large topology)   ✅ |
| WebSphere single server   ✅ |
| WebSphere single server with sample   ✅ |

Description: Business Agility In Action demo

Created on: Mar 17, 2011 3:18:07 PM

Current status: ✏ Draft

Updated on: Mar 17, 2011 3:18:07 PM

In the cloud now: (none)

Access granted to: David Schlosser [owner]

                        Add more...

Topology for this pattern:

There are no parts for this pattern.

⊞ Comments   There are no comments yet

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▾   Cloud ▾   Appliance ▾   Profile   Logout

Pattern Editor   Editing BAIA_dev   🔧   ✏️   ✂️   Done editing

Search...   Last updated on Mar 17, 2011 3:19:06 PM | **Advanced Options**

▽ **Parts (34/34)**

📋 Administrative agents
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📋 Administrative agents
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

📋 Administrative agents
WebSphere Application Server 7.0.0.11 with Intelligent Management Pack 6.1.1.2
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📋 Administrative agents
WebSphere Application Server 7.0.0.11 with Intelligent Management Pack 6.1.1.2
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

📋 Custom nodes
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📋 Custom nodes
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

📋 Custom nodes
WebSphere Application Server 7.0.0.11 with Intelligent Management Pack 6.1.1.2
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📋 Custom nodes
WebSphere Application Server 7.0.0.11 with Intelligent Management Pack 6.1.1.2
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

🗄 Database server
DB2 Enterprise 9.7.0.0 32-bit Trial
9.7.0.0, ESX, LINUX (SLES10SP2)

📋 Deployment manager
WebSphere Application Server 7.0.0.11

▷ **Scripts (10/10)**

                    Drag and drop items onto the topology

IBM.   WebSphere.

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▾   Cloud ▾   Appliance ▾   Profile   Logout

Pattern Editor

Editing BAIA_dev   Done editing

Search...

Last updated on Mar 17, 2011 3:21:01 PM | **Advanced Options**

▽ **Parts (34/34)**

🗄 Administrative agents
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

🗄 Administrative agents
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

🗄 Administrative agents
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

🗄 Administrative agents
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

🗄 Custom nodes
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

🗄 Custom nodes   🗄 Custom nodes
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

Drag and drop items onto the topology

🗄 Custom nodes
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

🗄 Custom nodes
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux 5)

🗄 Database server
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9.7.0.0, ESX, LINUX (SLES10SP2)

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▷ **Scripts (10/10)**

IBM.   WebSphere.

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▾   Cloud ▾   Appliance ▾   Profile   Logout

Pattern Editor   **Editing BAIA_dev**   ↻   ↩   ⚙   Done editing

Search...   Deploys to ESX hypervisors.   Last updated on Mar 17, 2011 3:22:16 PM | **Advanced Options**

Showing parts for ESX.   ⚠ A custom node is not federated to a deployment manager.

▽ **Parts (34/34)**

📇 Administrative agents
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📇 Administrative agents
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux
5)

📇 Administrative agents
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📇 Administrative agents
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux
5)

📇 Custom nodes
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📇 Custom nodes
WebSphere Application Server 7.0.0.11
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux
5)

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WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, SLES 11 (Novell SUSE Linux Enterprise Server 11)

📇 Custom nodes
WebSphere Application Server 7.0.0.11 with Intelligent
Management Pack 6.1.1.2
7.0.0.11, ESX, RedHat Enterprise Linux 5 (RedHat Enterprise Linux
5)

🗄 Database server
DB2 Enterprise 9.7.0.0 32-bit Trial
9.7.0.0, ESX, LINUX (SLES10SP2)

📇 Deployment manager
WebSphere Application Server 7.0.0.11

▷ **Scripts (10/10)**

[1 ⇕ 🔓]   📝 ✖
📇 Custom nodes
[7.0.0.11 ▾]   ⚠

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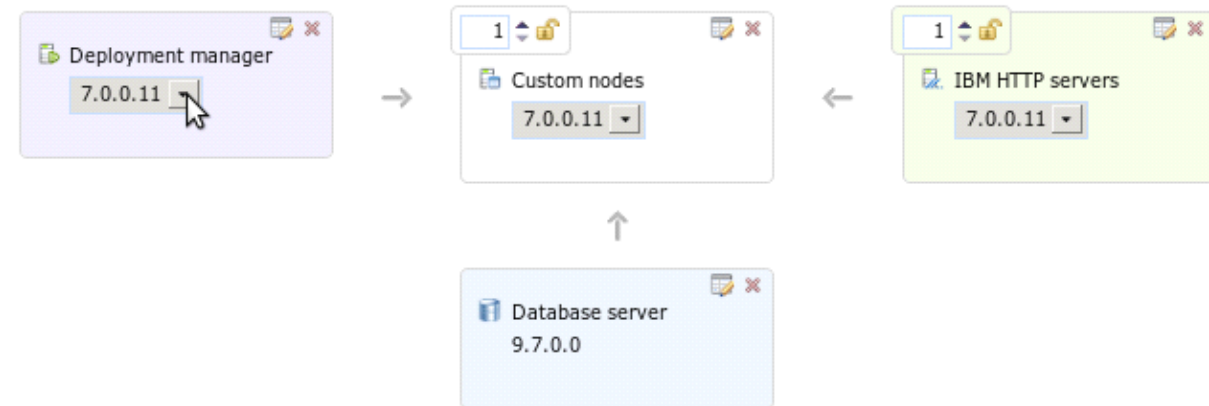**Pattern Editor**   **Editing BAIA_dev**   Done editing

Search...   Deploys to ESX hypervisors.   Last updated on Mar 17, 2011 3:31:49 PM | **Advanced Options**
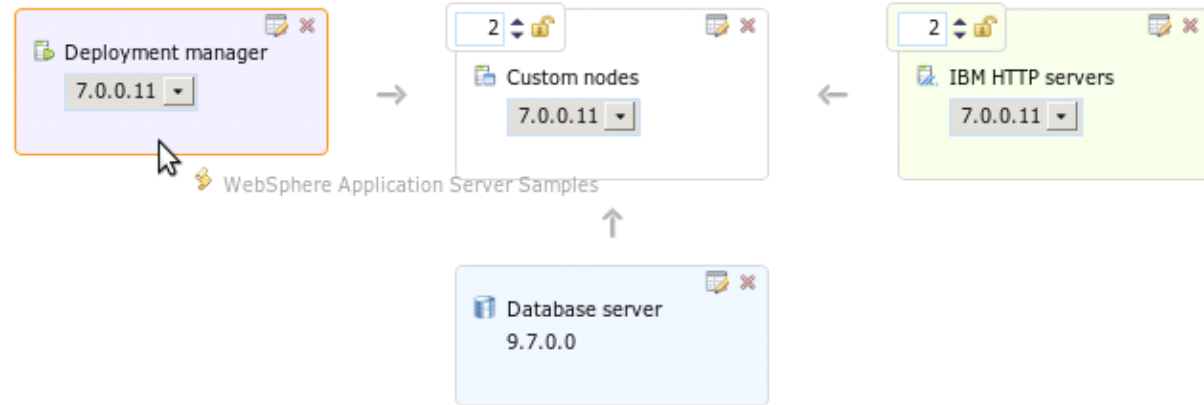
▷ **Parts (34/34)**

▽ **Scripts (10/10)**

 ⚡ Add IBM HTTP Server node
 ⚡ WMB: Configure MQ Clustering
 ⚡ WMB: Create Configurable Service
 ⚡ WMB: Create Execution Group (Advanced)
 ⚡ WMB: Create Execution Group (Basic)
 ⚡ WMB: Deploy Bar Files
 ⚡ WMB: Run MQSC Scripts
 ⚡ WMB: mqsichangeproperties
 ⚡ WMB: mqsisetdbparms
 ⚡ WebSphere Application Server Samples

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Patterns	➕

Search...   ↑↓▾

BAIA_dev   🖉

PortalDemo cluster (ds)   🖉

WebSphere Message Broker 7.0.0.1 (Advanced)   🖉

WebSphere Message Broker 7.0.0.1 (Basic)   🖉

WebSphere advanced cluster   ✅

WebSphere advanced cluster (development)   ✅

WebSphere cluster   ✅

WebSphere cluster (development)   ✅

WebSphere cluster (large topology)   ✅

WebSphere single server   ✅

WebSphere single server with sample   ✅

BAIA_dev   ⚓ ⬆ 🖉 ▤ 🔒 ❌

Description: Business Agility In Action demo

Created on: Mar 17, 2011 3:18:07 PM   ┌─────────────────────┐
                                                       │ Deploy in the cloud... │
Current status: 🖉 Draft   └─────────────────────┘

Updated on: Mar 17, 2011 3:32:14 PM

In the cloud now: (none)

Access granted to: David Schlosser [owner]

                       [Add more...]

Topology for this pattern:

Deploys to ESX hypervisors.

┌────────────────────────┐   ┌─────────────────────┐   ┌─────────────────────┐
│ 🗄 Deployment manager   ▦ │   →   │ 2 🔓   ▦ │   ←   │ 2 🔓   ▦ │
│   7.0.0.11   │   │ 🗄 Custom nodes   │   │ 📄 IBM HTTP servers │
│   │   │   7.0.0.11   │   │   7.0.0.11   │
│ ┌────────────────────┐ │   │   │   │   │
│ │ 🔶 WebSphere   │ │   └─────────────────────┘   └─────────────────────┘
│ │ Application Server │ │
│ │ Samples   │ │
│ └────────────────────┘ │
└────────────────────────┘
                                            ↑
                             ┌─────────────────────┐
                             │ 🗄 Database server   ▦ │
                             │   9.7.0.0   │
                             └─────────────────────┘

IBM   WebSphere.

WebSphere CloudBurst   ⊕   ▼

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Welcome   Virtual Systems   **Patterns**   Environment Profiles   Catalog ▾   Cloud ▾   Appliance ▾   Profile   Logout

Patterns   ➕   **BAIA_dev**   🐦 🐤 ✏️ 🗐 🔒 ✖️

Search...   ↑↓▾   Description: Business Agility In Action demo

BAIA_dev   ✏️   Created on: Mar 17, 2011 3:18:07 PM

PortalDemo cluster (ds)   ✏️   Current status: ✏️ Draft

WebSphere Message Broker 7.0.0.1 (Advanced)   ✏️   Updated on: Mar 17, 2011 3:32:14 PM

WebSphere Message Broker 7.0.0.1 (Basic)   ✏️   In the cloud now: (none)

WebSphere advanced cluster   🍃   ┌───┐
                                                              │ Describe the virtual system you want to deploy.   │
WebSphere advanced cluster (development)   🍃   │   │
                                                              │   ☑️   BAIA_dev(1)   │
WebSphere cluster   🍃   │   ⌖   │
                                                              │   ☑️   Choose Environment   │
WebSphere cluster (development)   🍃   │   │
                                                              │   ☑️   Schedule deployment   │
WebSphere cluster (large topology)   🍃   │   │
                                                              │   📋   Configure virtual parts   │
WebSphere single server   🍃   │   📋 Custom nodes   odes   │
                                                              │   📋 Deployment manager   │
WebSphere single server with sample   🍃   │   📋 Database server   │
                                                              │   📋 IBM HTTP servers   │
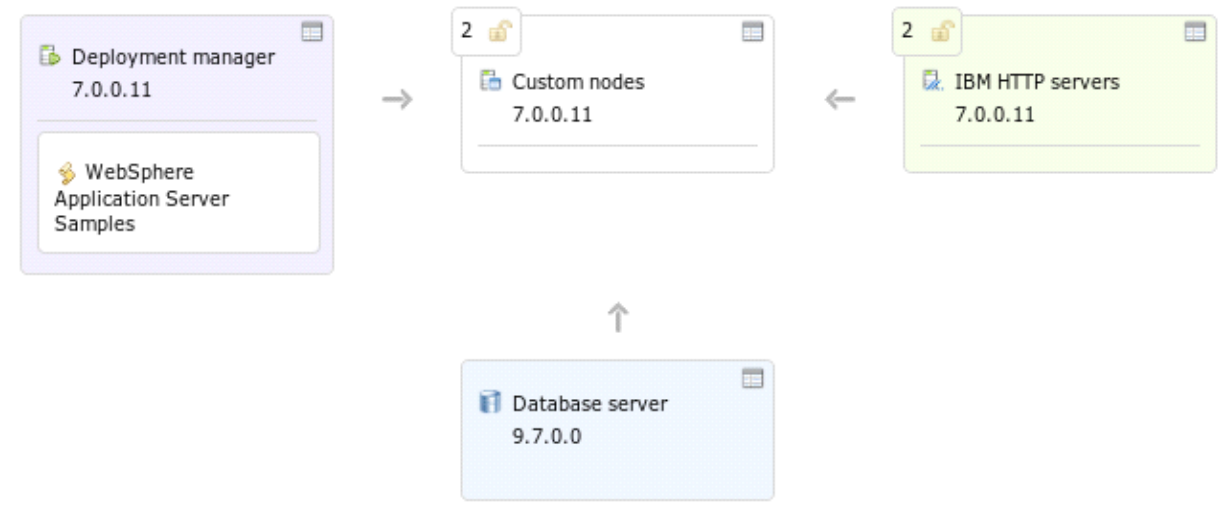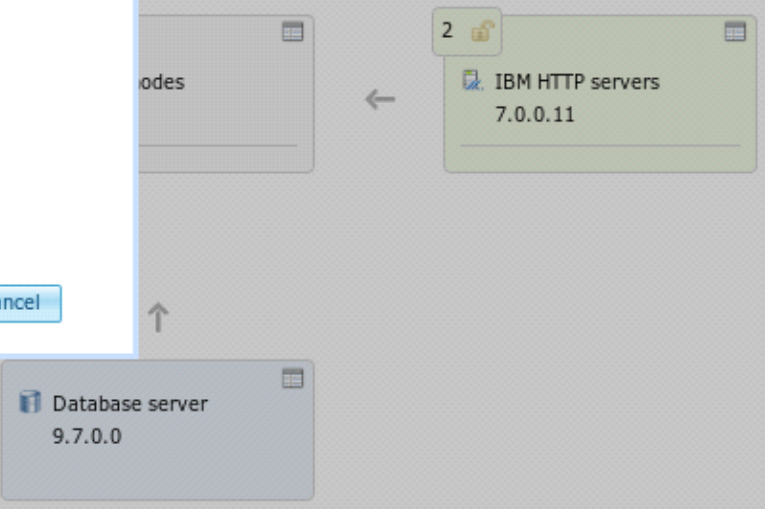   │   │
                                                              │   │
                                                              │   [OK   ]   [Cancel]   │
                                                              └───┘

                                                              2 🔓   🗔
                                                              🖳 IBM HTTP servers
                                                              7.0.0.11

                                                              🛢 Database server
                                                              9.7.0.0

IBM.   WebSphere.

WebSphere CloudBurst

WebSphere CloudBurst   Welcome, David Schlosser | Help | About

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Patterns   ✚

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BAIA_dev

PortalDemo cluster (ds)

WebSphere Message Broker 7.0.0.1 (Advanced)

WebSphere Message Broker 7.0.0.1 (Basic)

WebSphere advanced cluster

WebSphere advanced cluster (development)

WebSphere cluster

WebSphere cluster (development)

WebSphere cluster (large topology)

WebSphere single server

WebSphere single server with sample

BAIA_dev

Description: Business Agility In Action demo

Created on: Mar 17, 2011 3:18:07 PM

Current status: ✎ Draft

Fill in the required values for this part of the pattern.

Name: DMGRPart

* Virtual CPUs: 1 ▾

* Memory size (MB):   2048
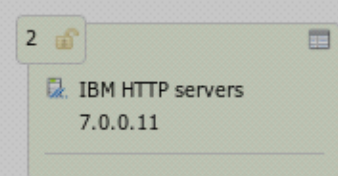
* Reserve physical CPUs: False ▾

* Cell name: CloudBurstCell

* Node name: CloudBurstNode

* Feature packs: ☑ none
                      ☐ cea
                      ☐ sca

OK   Cancel

2 🔓   ▦
   IBM HTTP servers
   7.0.0.11

←

Database server   ▦
9.7.0.0

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WebSphere CloudBurst   ⊞

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Virtual Systems		**BAIA_dev(1)**	🐾 ▶ ■ ▨ ⚙ ✖

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BAIA_dev(1)   ⧗

PT Test 1   ▨

PortalDemo Cluster (test)   ▶

Created on:	Mar 17, 2011 3:42:54 PM
From pattern:	BAIA_dev
Using Environment profile:	None provided
Current status:	⧗ Queued
Updated on:	Mar 17, 2011 3:42:54 PM
Access granted to:	David Schlosser [owner]
	Add more...
Snapshot:	Create
	(none)

⊞	History	Deployment has been queued
⊞	Virtual machines	**6 total** - 6 inactive
⊞	Comments	There are no comments yet

IBM.   WebSphere.

WebSphere CloudBurst

Virtual Systems

Search…

BAIA_dev(1)

PT Test 1

PortalDemo Cluster (test)

BAIA_dev(1)

Created on:	Mar 17, 2011 3:42:54 PM
From pattern:	BAIA_dev
Using Environment profile:	None provided
Current status:	⧗ Transferring files to hypervisor cache (2 of 8 WebSphere Application Server 7.0.0.11)
Updated on:	Mar 17, 2011 3:55:13 PM
Access granted to:	David Schlosser [owner]
	Add more…
Snapshot:	Create
	(none)

History	Transferring files to hypervisor cache (2 of 8 WebSphere Application Server 7.0.0.11)	
	Transferring files to hypervisor cache (2 of 8 WebSphere Application Server 7.0.0.11)	Mar 17, 2011 3:54:06 PM
	Transferring files to hypervisor cache (1 of 8 WebSphere Application Server 7.0.0.11)	Mar 17, 2011 3:44:29 PM
	Transferring virtual images to hypervisors	Mar 17, 2011 3:44:19 PM
	Generating model for topology and network	Mar 17, 2011 3:43:49 PM
	Reserving cloud resources	Mar 17, 2011 3:43:19 PM
	Deployment has been queued	Mar 17, 2011 3:42:55 PM

⊞ Virtual machines   **6 total** - 6 inactive

⊞ Comments   There are no comments yet

IBM.   WebSphere.

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Systems

BAIA_dev(1)

Created on:	Mar 17, 2011 3:42:54 PM
From pattern:	BAIA_dev
Using Environment profile:	None provided
Current status:	▶ The virtual system has been deployed and is ready to use
Updated on:	Mar 17, 2011 4:50:38 PM
Access granted to:	David Schlosser [owner]
	Add more…
Snapshot:	Create
	(none)

⊞ History   The virtual system has been deployed and is ready to use

⊟ Virtual machines   **6 total** - 6 started

Name	CPU	Memory	SSH	Actions
⊞ ▶ BAIA_dev(1) wca19 dmgr	0%	78%	Login	View
⊞ ▶ BAIA_dev(1) wca18	1%	83%	Login	View
⊞ ▶ BAIA_dev(1) wca17 custom	1%	65%	Login	View
⊞ ▶ BAIA_dev(1) wca22 custom	0%	63%	Login	View
⊞ ▶ BAIA_dev(1) wca11 ihs	0%	61%	Login	View
⊞ ▶ BAIA_dev(1) wca21 ihs	0%	59%	Login	View

⊞ Comments   There are no comments yet

WebSphere CloudBurst

WebSphere CloudBurst

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Virtual Systems

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BAIA_dev(1)

BAIA_dev(1)   ▶

PT Test 1

PortalDemo Cluster (fix test)   ❗

BAIA_dev(1)

▶ BAIA_dev(1) ▭▭▭ 0%   ▮▮▮▯ 77%   Login   View
wca19 dmgr

🔷 General information

Created on:	Mar 17, 2011 3:42:56 PM
From virtual image:	WebSphere Application Server 7.0.0.11
Current status:	▶ Virtual machine has been started
Updated on:	Mar 20, 2011 7:24:36 PM
On hypervisor:	ESX1
In cloud group:	Default ESX group
Registered as:	DMGR_3
Stored on:	Cloudburst2

📋 IBM products (with PVU for isolated usage)

IBM WebSphere Application Server Hypervisor Edition (5724-X89):	50 PVU

🖳 Hardware and network

Virtual CPU count:	1
Virtual memory (MB):	2048

IBM.

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Thankyou!

Resources

- IBM cloud resources:
  http://bit.ly/ibmDWCloud

- Blog:
  http://bit.ly/dustinBlog

- Demos:
  http://www.youtube.com/user/WebSphereClouds