Expert
integrated systems

IBM

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Program Mgr.

PureSystems

Enable your applications for cloud computing with ICCT (Image Construction and Composition Tool)

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Only 1 in 5 can allocate more than half their IT budget to innovation

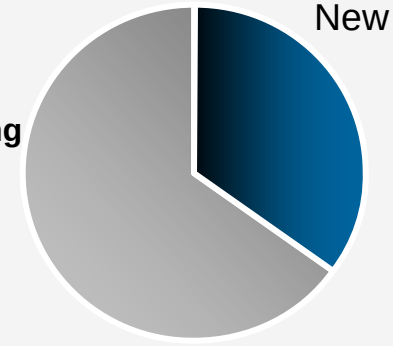
Least efficient data centers

Use of new technology:

43% first and fast technology adoption
1% move virtual machines to meet desired outcomes
21% use storage virtualization
3% use a storage service catalog (tiered storage)

Results:
Maintaining existing infrastructure

65%



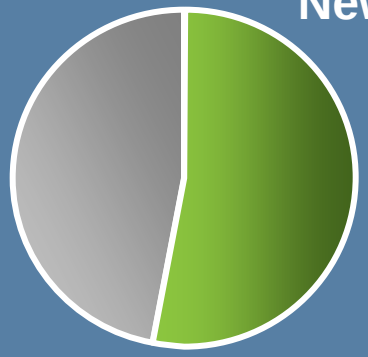
Most efficient data centers

Use of new technology:

86% first and fast technology adoption
58% move virtual machines to meet desired outcomes
93% use storage virtualization
87% use a storage service catalog (tiered storage)

Results:

Maintaining existing infrastructure
47%



Source: 2012 IBM Data Center Study: www.ibm.com/data-center/study (http://www.ibm.com/data-center/study)

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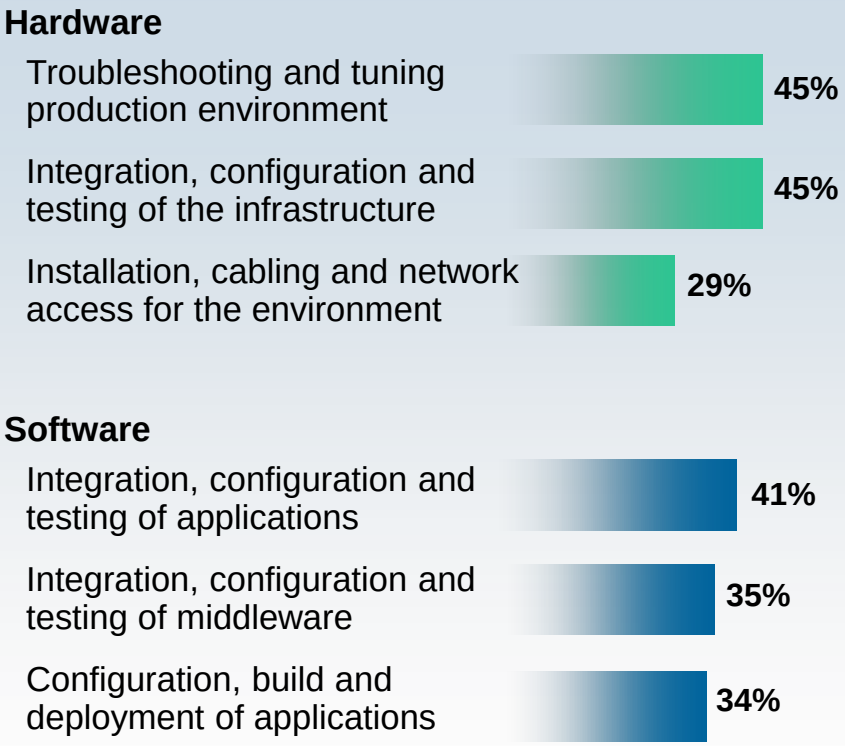
Clients struggle to overcome barriers of time, cost and risk

Typical IT Project Time and Budget

Phase	Time (days)	Budget
Specify/design	73 - 96	14% - 16%
Procure	57 - 112	19% - 21%
Implement	74 – 93	12%
Configure/test	74 – 80	10% - 11%
Cluster & HA	66 – 104	11% - 12%
Backup	44 – 108	10%
Tune	89 – 98	9% - 10%
Management	67 – 110	9 – 10%

Top Causes of Project Delays



34% *of new IT projects (US)* ***deploy late***

From a commissioned study conducted by Forrester Consulting on behalf of IBM

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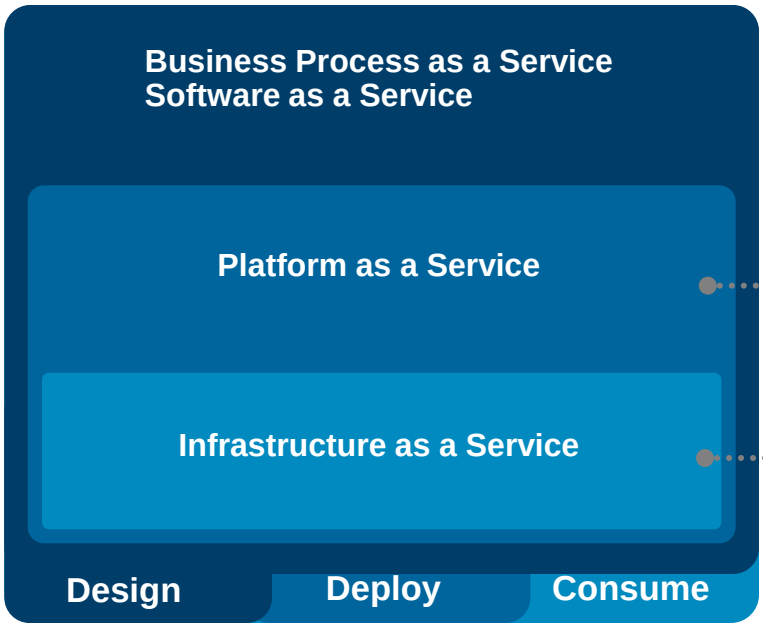
IBM Systems built for cloud



IBM PureApplication & PureData Systems

20-30X faster deployment with application patterns expertise

IBM PureFlex System

Accelerate adoption of private clouds with built-in virtualization and superior automation

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Types of Patterns Available

Virtual Application Patterns

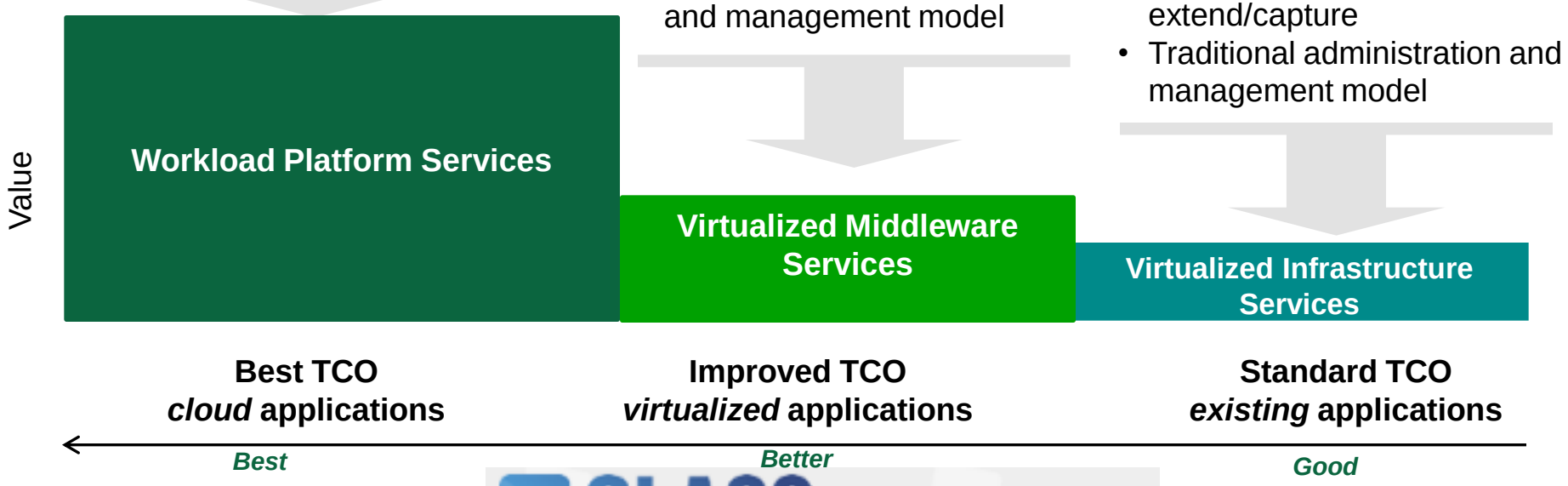
- Built for the cloud environment
- Highly automated, policy based deployment
- Leverages elastic workload management services

Virtual Appliance

- Packaged for virtual environments
- Automated deployment of middleware topologies
- Traditional administration and management model

Existing Software

- Standard software installation and configuration on OS
- Images created through extend/capture
- Traditional administration and management model



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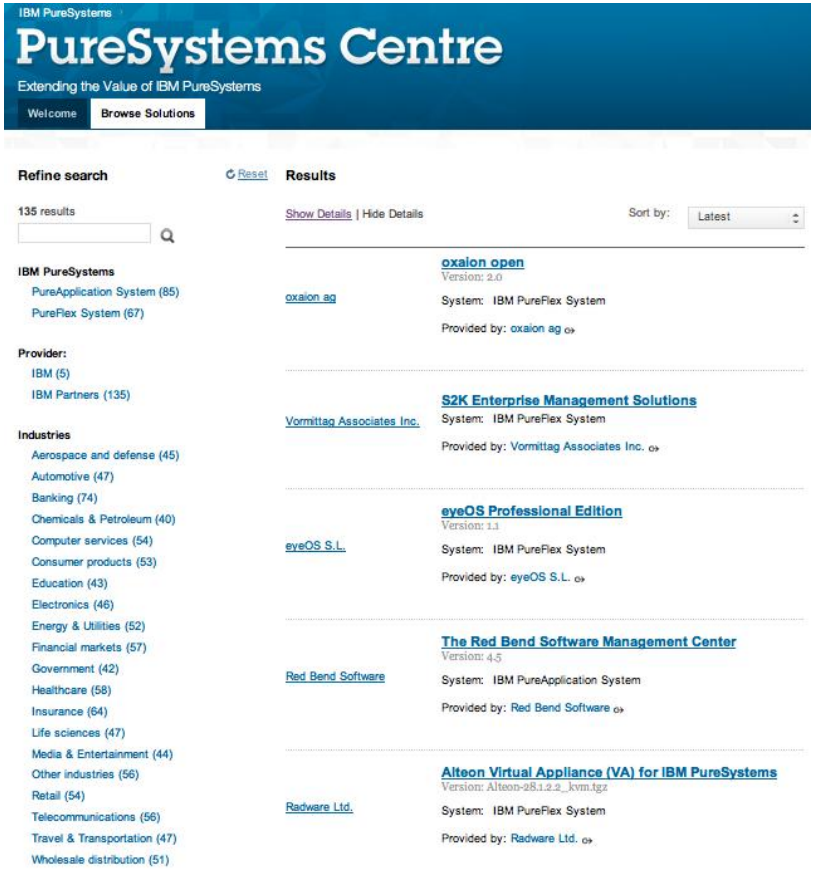
http://www-01.ibm.com/software/brandcatalog/puresystems/centre

http://www.ibm.com/developerworks/expert/try.html



- Optimized solutions from 100+ leading ISV partners
- Search by solution area, industry or system.
- Gain access to ISV application patterns for trial and production.
- Certified through

- All of your existing AIX, IBM i, Linux and Windows applications will run on PureSystems

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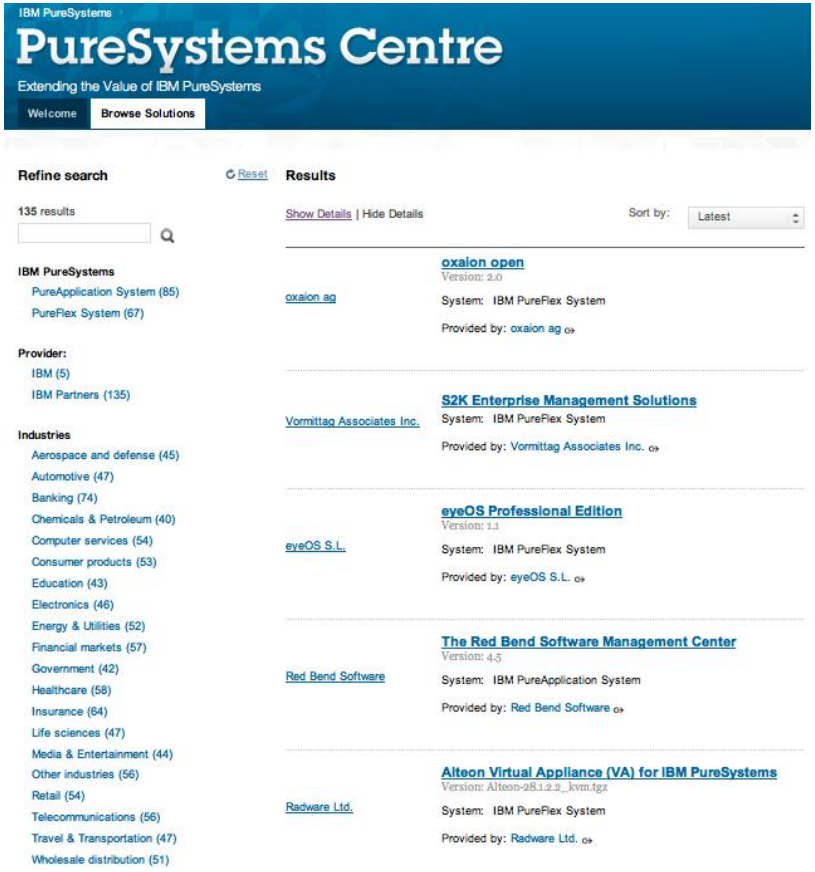

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riverbed
DIASOFT
innovation group
redhat
suse
aviarc
INTERSYSTEMS
JUNIPER NETWORKS
f5
GMC SOFTWARE TECHNOLOGY
VISION SOLUTIONS
INFOR
REFLEXIS
SwordCiboodle
be served, be solo, be social
sab
TEMENOS
SUGARCRM
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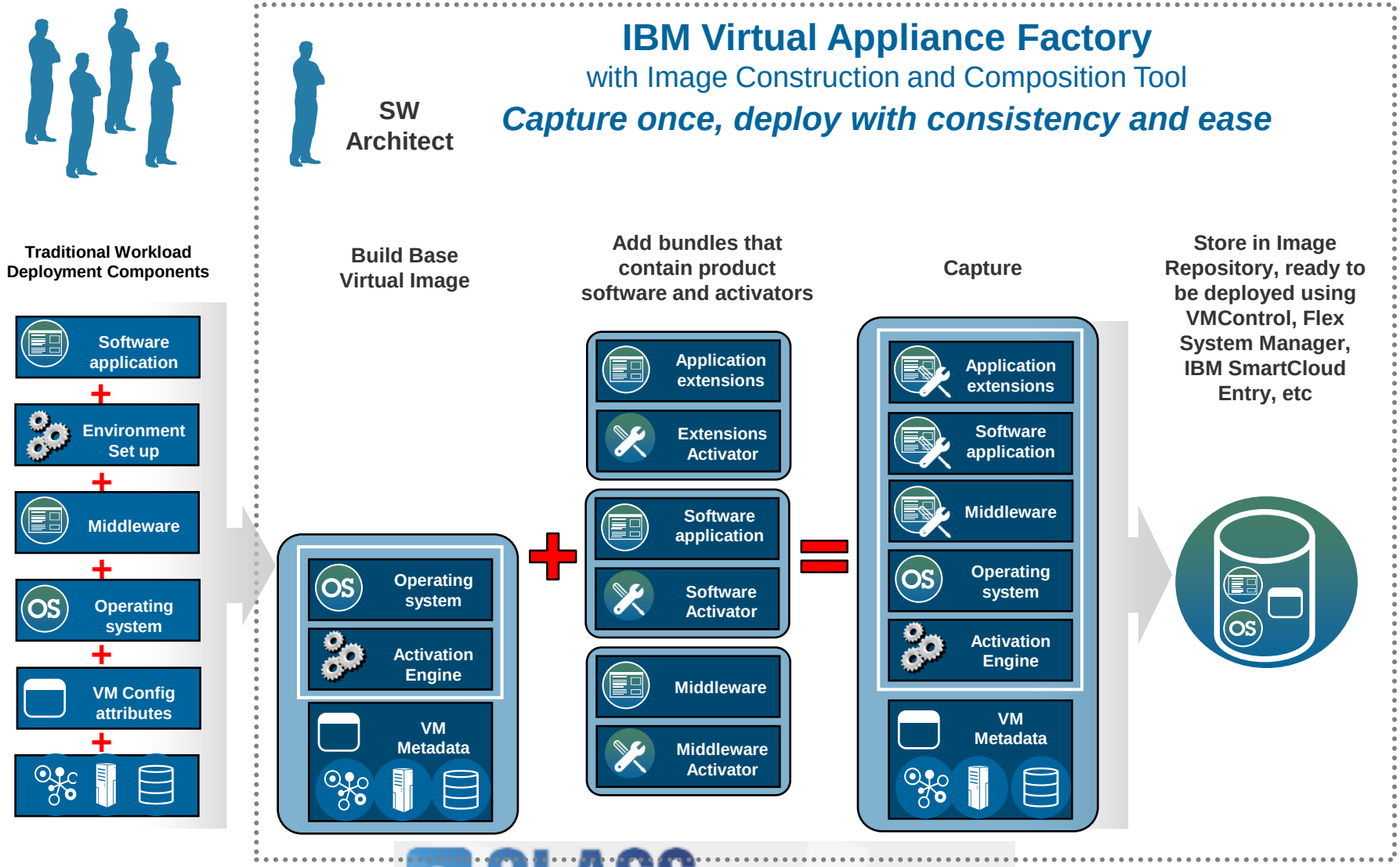
How to enable applications for IBM PureFlex System



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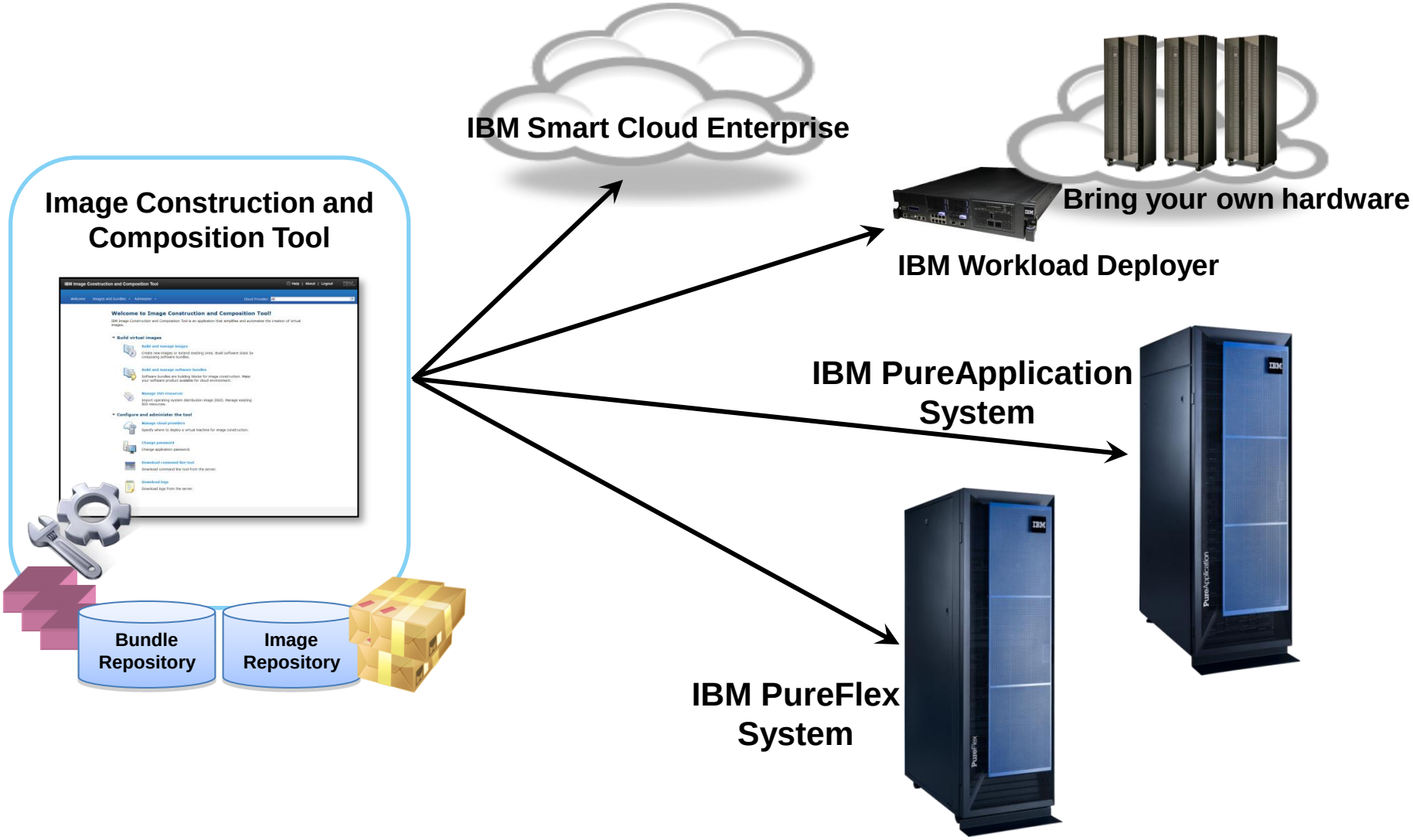
Support for Multiple Cloud Providers



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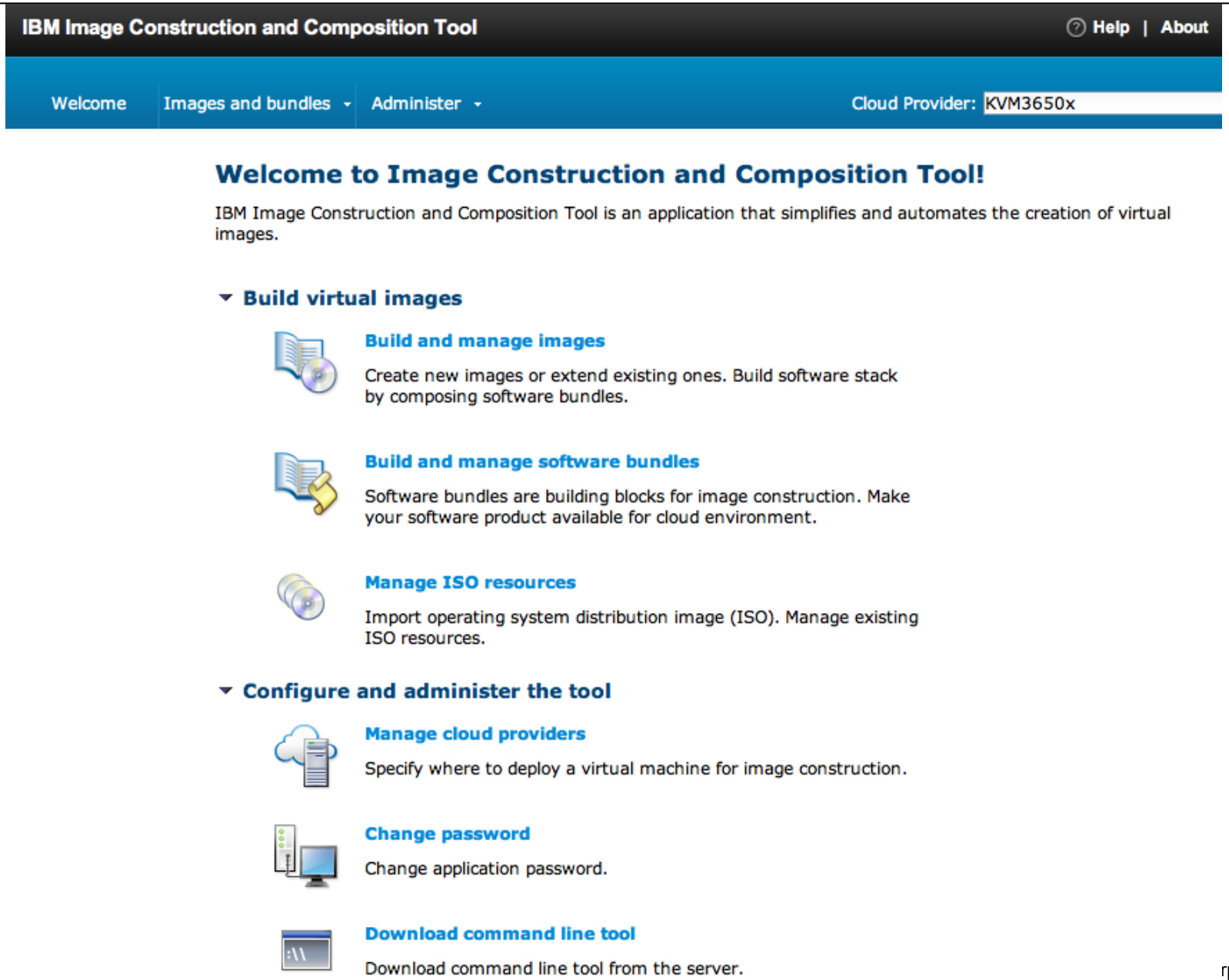
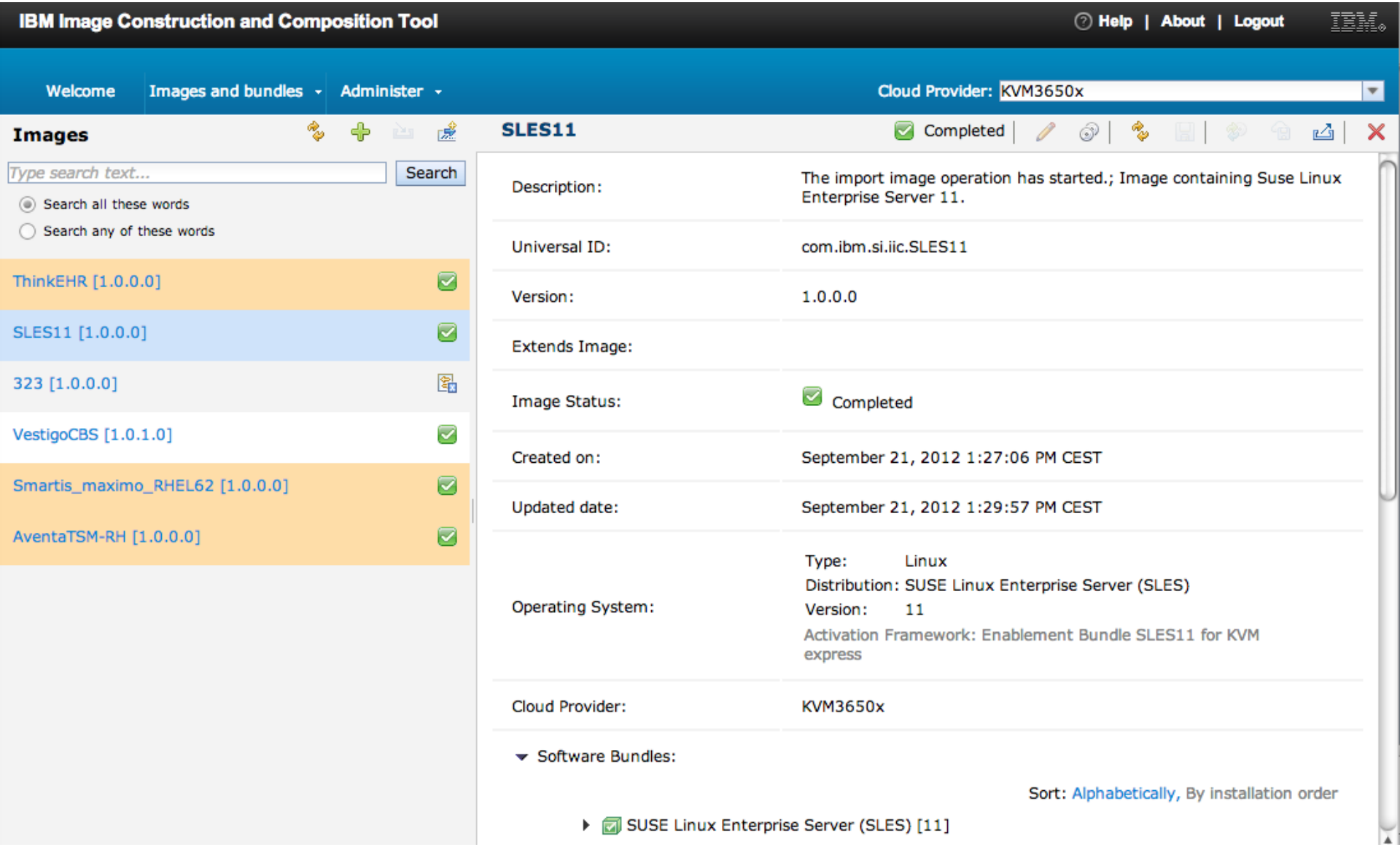

IBM Image Construction and Composition Tool
Help | About
Welcome
Images and bundles
Administer
Cloud Provider: KVM3650x
Welcome to Image Construction and Composition Tool!
IBM Image Construction and Composition Tool is an application that simplifies and automates the creation of virtual images.
Build virtual images
Build and manage images
Create new images or extend existing ones. Build software stack by composing software bundles.
Build and manage software bundles
Software bundles are building blocks for image construction. Make your software product available for cloud environment.
Manage ISO resources
Import operating system distribution image (ISO). Manage existing ISO resources.
Configure and administer the tool
Manage cloud providers
Specify where to deploy a virtual machine for image construction.
Change password
Change application password.
Download command line tool
Download command line tool from the server.

rporation



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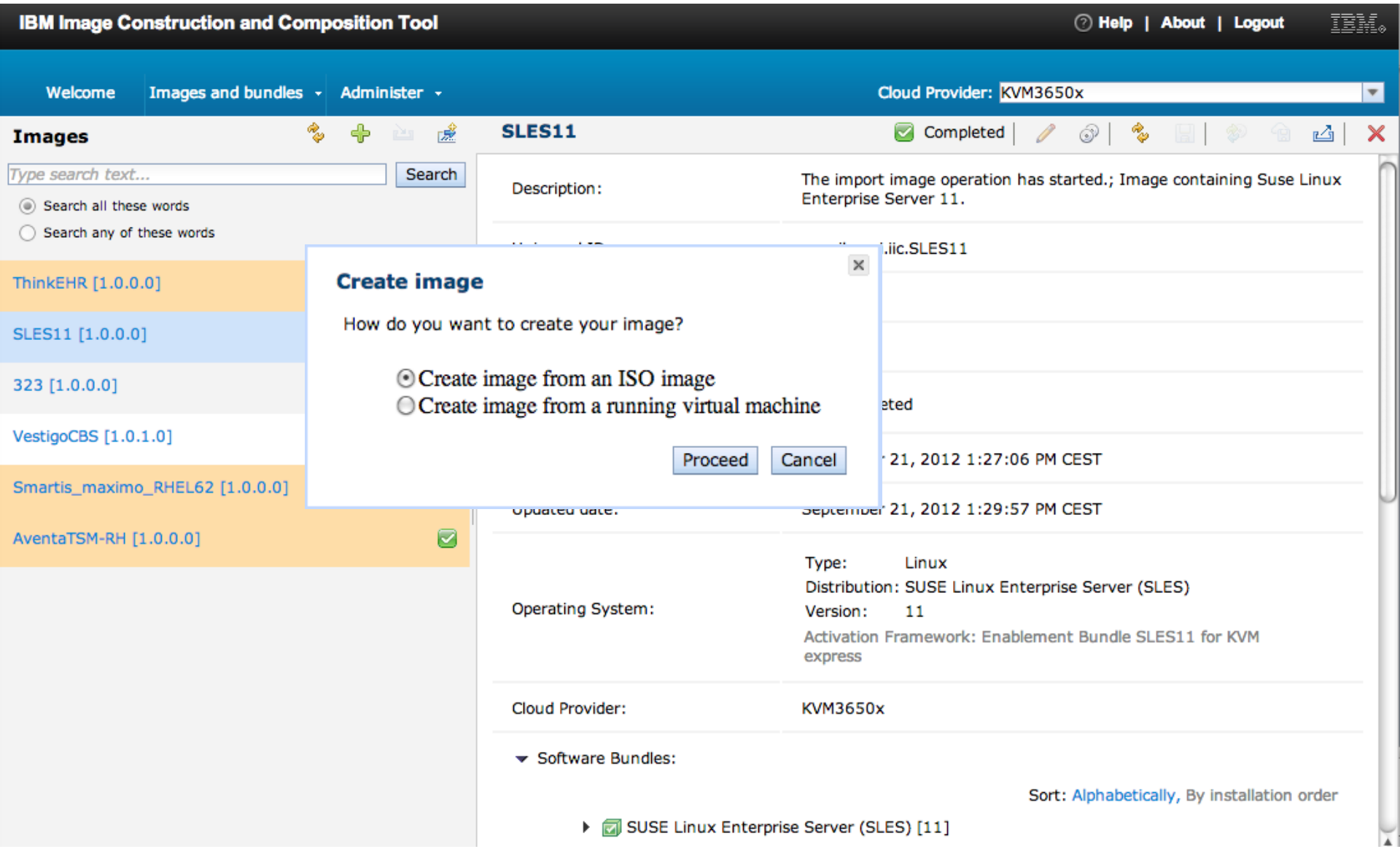

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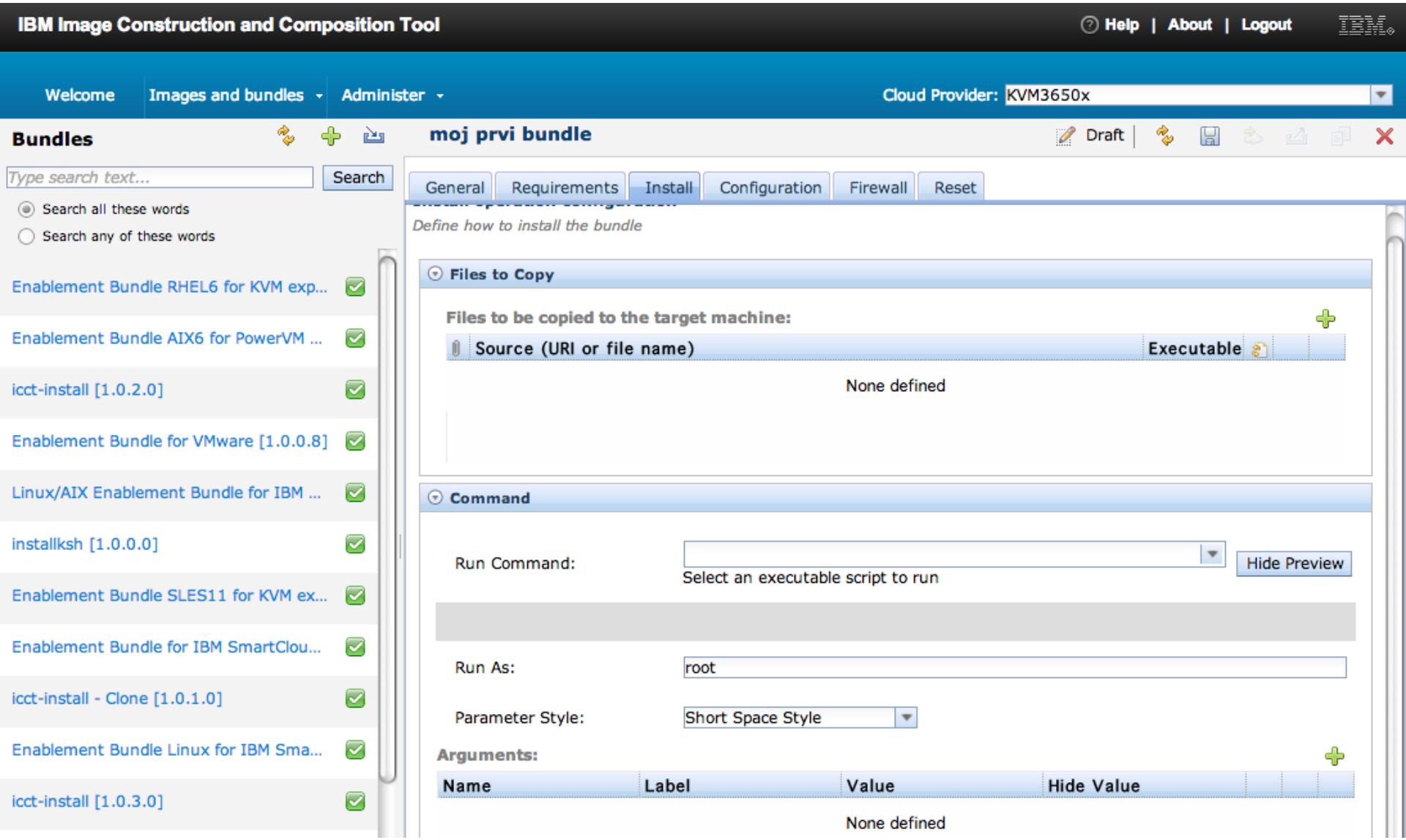

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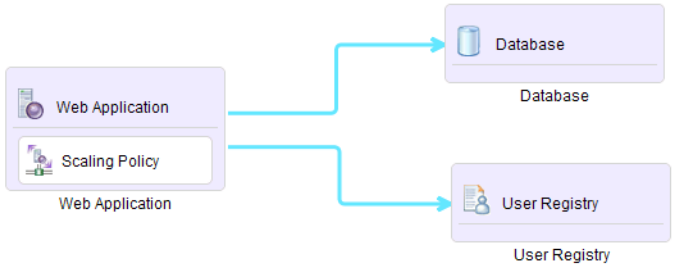
Virtual Application Pattern

IWD in work

A Virtual Application represents a collection of application components, behavioral policies and their relationships

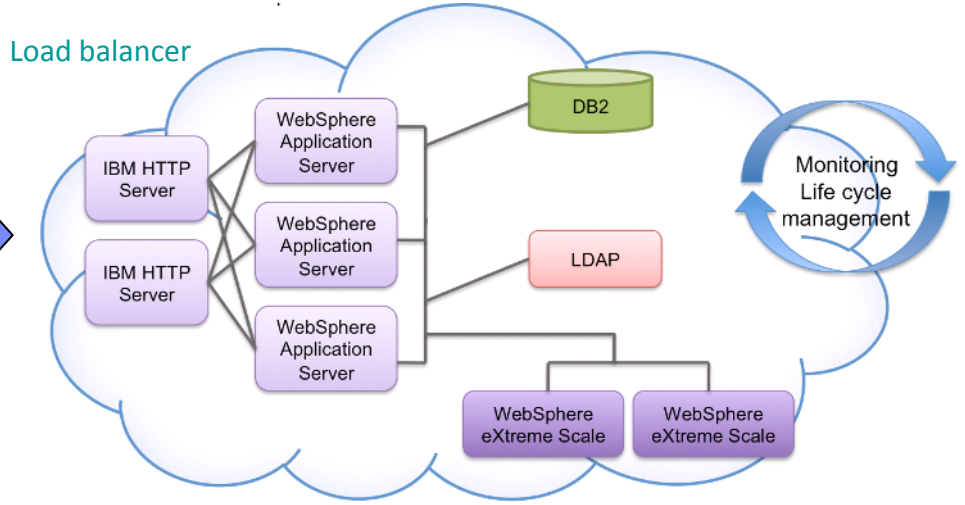
- Core components of the pattern include web applications, databases, queues, connections to existing resources, business process models, batch jobs, mediations, etc.
- Core policies of the pattern include high availability, SLAs, security, multi-tenancy, isolation, etc.

Virtual Application Pattern



Initial instance = 3

Virtual Application Instance



WAS cluster configured with session replication

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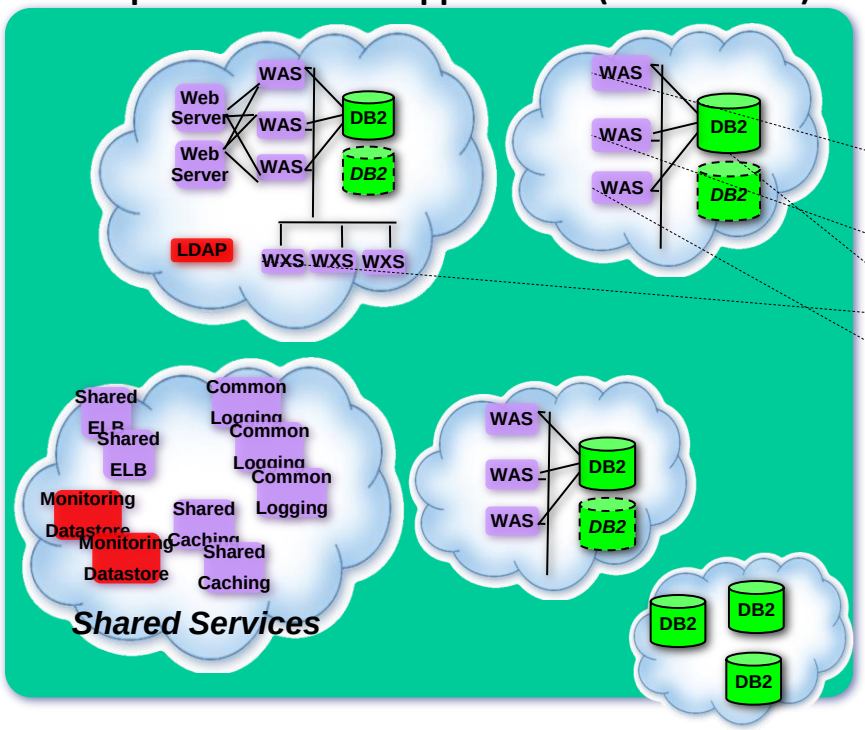
Consolidate through patterns

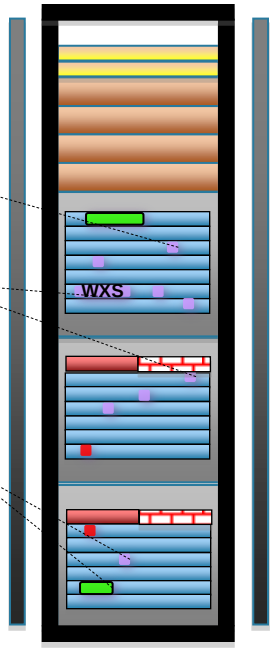
Virtual application patterns allow more dense:

- packing of applications in server space
  - Due to shared services & smart placement algorithms
- allocation of applications to admins
  - Due to improved efficiency in management

Multiple Consolidated Applications (Virtual View)



Multiple Consolidated Applications (Physical View)



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