

This presentation covers VMware vCenter integration with the IBM Workload Deployer Appliance.

	IBM
Agenda	
<ul> <li>VMware VirtualCenter (vCenter) Server overview</li> </ul>	
<ul> <li>Integration with IBM Workload Deployer</li> </ul>	
Configuring VMware VirtualCenter (vCenter) Server in IBM Workload Deployer	
2 VMware vCenter Server Integration	© 2012 IBM Corporation

After a brief overview of VMWare vCenter, you will see how it integrates with the IBM Workload Deployer Appliance and the configuration needed to accomplish this.



This section will give a brief overview of the VMware vCenter Server.



vCenter is a management piece of software that allows you to centrally manage your entire VMware-based virtualized IT infrastructure. Instead of managing each hypervisor directly administrators manage all of the hypervisors in one central location. vCenter goes above and beyond just giving you the capability to centrally manage your environment. vCenter is the foundation of a suite of add-on products and features that give capabilities such as failover, high availability and live migration.



This section covers how VMware vCenter integrates with IBM Workload Deployer.



There are two ways in which IBM Workload Deployer can manage your ESX hypervisors. They can be managed directly by IBM Workload Deployer, as shown in this slide, or they can be managed through vCenter which is covered in the remaining slides. When IBM Workload Deployer is configured to directly manage the hypervisors, it will manage placement and deploy directly to the hypervisor using the hypervisor's API.

ESX hypervisors can either be part of a custom cloud or they can be managed by VMware vCenter. If the hypervisors are managed by VMware vCenter, then they are discovered as part of the managed end point.



IBM Workload Deployer supports VMware ESX with vMotion by allowing movements when a virtual machine that is created by the appliance is moved. Storage VMotion and Distributed Resource Scheduling (DRS) are not supported. If you are going to configure IBM Workload Deployer to work with vCenter you will need to make sure that you disable those features.



This section covers adding vCenter and performing a simple deployment using vCenter as your target.

		IBM
Create cloud group (bas	ic information)	
Navigate to Cloud > Cloud Gr	oups click the plus icon 🐣	
Fill in the required fields	<b>u</b>	
- Name - Any unique name		
– Hypervisor type – Choose I	ESX	
Describe the cloud you w	ant to create.	
* Name:	A unique cloud name	
Description:	A detailed description	
<ul> <li>Hypervisor type:</li> </ul>	ESX	
Group type:	🔲 🖏 Managed by a Virtual Center	
	Create Cancel	

You configure vCenter differently than you configure an individual ESX hypervisor. First you navigate to Cloud>Cloud Groups and click the green plus icon. This will bring up the cloud group creation panel. Enter a unique name and choose "ESX" as your hypervisor type.

Create cloud group (vCenter ir	nformation)
	Describe the cloud you want to create.
Select Managed by a Virtual Center	* Name: Cloud Group 1
<ul> <li>Enter connection information of the VMware vCenter server</li> </ul>	Description: A detailed description
Click the <b>Create</b> button	* Hypervisor type: ESX
	Group type: 🛛 🖓 🖓 Managed by a Virtual Center
	Provide the credentials for Virtual Center
	* Host name: https://9.3.75.71/sdk
	* User name: Administrator
	* Password:
	Verify password:
	Create Cancel
0 VMware vCenter Server Integration	© 2012 IBM Corporation

Choose the "Managed by a Virtual Center" check box and fill in the host name, user name and password of vCenter. This user needs to have administrative privileges. Once all information has been entered, click the "Create" button to complete the cloud group setup.



After the cloud group has been created, it will have a list of all hypervisors managed by vCenter. Remove any hypervisors that you do not want managed by IBM Workload Deployer by way of vCenter. Any hypervisors that remain can be used as a target during pattern deployment. Remember that IBM Workload Deployer requires exclusive use of the hypervisor.

e hypervis Cloud > Hy	sors	
Cloud > Hy		
Cloud > Hy		
Cloud > Hy	menuiners your by	
Cloud > Hy	manuages your by	
Cloud > Hy	nanyiaara Swaur, by	
	pervisors > your_nv	
tworks > VM	Network and abagag on ID group	
tworks > vi	I Network and choose an IP group	
pervisor		
.75.124 <u></u> "	ESX	
rsion:	VMware ESX 4.1.0 build-260247	
ment status:	If Maintenance mode (must select a storage to use to start)	
cloud group:	Cloud group 1	
formance:	CPU usage Memory usage	
	Active virtual machines:	
Hardware	2 cpu packages, 8 cpu cores and 16 GB memory	
Deployment statistics	0 successful, 0 failed, 0 consecutive failures	
History	Maintenance mode (must select a storage to use to start)	
Virtual machines	4 total - 4 started	
Networks	1 total, 1 in use, 1 mapped to IPGroups	
In use Name		
VM Network	Choose an	
VLAN:	None provided IP group	
IP group:	ESX IP Group	
Distributed	d Virtual Switch: false	
	rpervisor 75.124 e: ision: rent status: doud group: formance: Hardware Deployment statistics Hestory Virtual machines Networks In use Name Virtual machines Networks In use Name VLAN: B group: Distribute	tworks > vin Network and choose an in group rpervisor 7.124 Text Text Text Text Text Text Text Text

Next you need to complete the hypervisor configuration. Navigate to Cloud > Hypervisors. For each vCenter hypervisor that you added, you need to specify an IP group and select the storage before starting the hypervisor.



You have successfully configured your vCenter cloud group. The final step is to verify that it is working as expected. You can do this by performing a simple stand-alone server deployment, making sure to specify the vCenter cloud group. Once the deployment completes, verify that a virtual machine was created on one of the hypervisors associated with your vCenter cloud group.



This section provides a summary of this presentation.

	IBM
Summary	
<ul> <li>You are now able to manage your hypervisors using vCenter with a few stipulations:</li> <li>– IBM Workload Deployer still manages placement of deployments</li> <li>– IBM Workload Deployer still requires dedicated access to the hypervisors</li> </ul>	
15 VMware vCenter Server Integration © 201	2 IBM Corporation

This presentation covered the IBM Workload Deployer to VMware vCenter Server integration. This integration comes with a few existing stipulations. One, IBM Workload Deployer still manages placement of deployments. Two, IBM Workload Deployer still requires dedicated access to the hypervisors.

Trademarks, disclaimer, and copyright information
IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "Copyright and trademark information" at http://www.ibm.com/legal/copytrade.shtml
THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.
© Copyright International Business Machines Corporation 2012. All rights reserved.
45