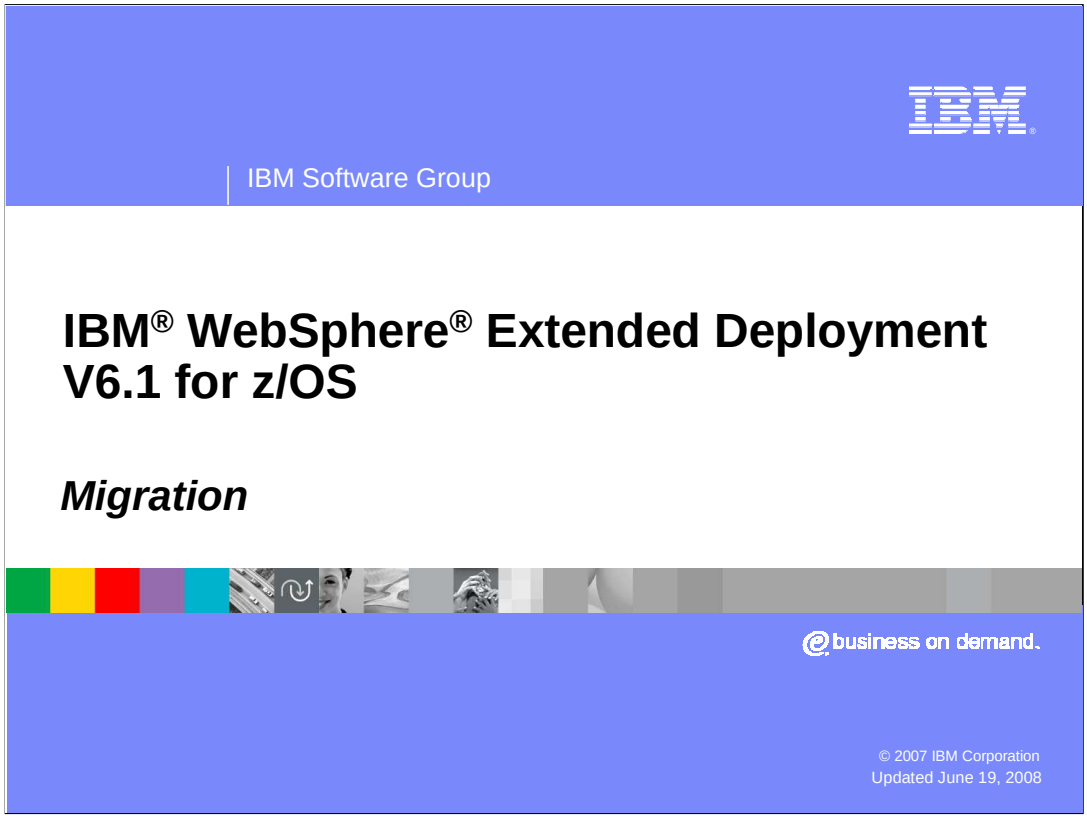

This presentation will cover the migration of WebSphere Extended Deployment V6.0.2 to V6.1 on z/OS.

This module references

- WebSphere Extended Deployment Data Grid, which is now called WebSphere eXtreme Scale; and
- WebSphere Extended Deployment Operations Optimization, which is now called WebSphere Virtual Enterprise.

Though the module uses the previous names, the technical material covered is still accurate.

Migration Overview

- Extended Deployment V6.0.2 migration steps
  - Extended Deployment 6.0.2 migration strategy is a cell wide migration; all nodes must be migrated together.
- Extended Deployment V6.1 migration steps
  - Migrate the deployment manager first
  - Migrate each cell node by node

In WebSphere Extended Deployment 6.0.2, the migration strategy was cell-wide, thus all nodes were migrated together. In WebSphere Extended Deployment 6.1, the migration process is two-fold. The deployment manager is migrated first. Then, each cell is migrated node by node.

Migration: Preparing the Deployment Manager

- Install WebSphere Application Server Version 6.1.0.8 on the deployment manager host
- Create a version 6.1.0.8 deployment manager profile
  - NOTE: the node and cell names must be the same
- ND Migrate the deployment manager to 6.1.0.8
  - Use WASPreUpgrade and WASPostUpgrade

Multiple steps are required when migrating from WebSphere Extended Deployment 6.0.2 to version 6.1. Use the managedprofiles command installed with WebSphere Application Server 6.1 to create a deployment manager profile. Once you have created this profile, use the WASPreUpgrade tool to export the configuration from your version 6.0.2 environment, then run WASPostUpgrade to import that configuration into your newly created profile.

If you are unfamiliar with WASPreUpgrade and WASPostUpgrade, refer to the WebSphere information center for instructions and syntax. Note that you must use the WASPreUpgrade and WASPostUpgrade tools located in the ‘bin’ directory of the version 6.1.0.8 profile that you just created.

Migration steps: Deployment manager

- Install WebSphere Extended Deployment Version 6.1 on the deployment manager host
- Migrate the operations optimization package first
  - Augment the deployment manager using zPMT
  - Run the XDUpgrade command to migrate the deployment manager
- Repeat the two previous steps for the data grid and compute grid packages
  - Note special migration for compute grid (See Appendix 1)

Next, install WebSphere Extended Deployment V6.1 on the deployment manager host. Augment the deployment manager profile for each WebSphere Extended Deployment V6.1 package, starting with operations optimization. Do not start the deployment manager at this point – you will return to it later.

XDUpgrade

- Run the XDUpgrade utility on the deployment manager host to migrate it to WebSphere Extended Deployment V6.1
  - Imports deployment manager data from Extended Deployment V6.0.2 into the V6.1 deployment manager profile
  - Located in the bin directory of the deployment manager profile after WebSphere Extended Deployment installation
- XDUpgrade

  -sourcewashome <WAShome for source installation>
  -sourceprofilepath <source profile path>
  -sourceprofilename <source profile name
  -targetprofilepath <target profile path>
  -targetprofilename <target profile name>
- Start the deployment manager

Run the 'XDUpgrade' command on the deployment manager host.

The XDUpgrade required parameters are shown here.

-sourcewashome is the home directory for WebSphere Extended Deployment installation from which configuration is to be migrated.

-sourceprofilepath is the fully qualified path to the profile from which configuration is to be migrated.

-sourceprofilename is the name of the profile from which configuration is to be migrated.

-targetprofilepath is the fully qualified path to the profile to which configuration is to be migrated.

-targetprofilename is the name of the profile to which configuration is to be migrated.

Migration steps : Migrate each node

- Install WebSphere Application Server Version 6.1.0.8 on each host that contains a WebSphere Extended Deployment Version 6.0.2 node
- Create a version 6.1.0.8 custom profile with the same node name as each existing node
- Migrate the existing node configurations to the new profiles
  - Use WASPreUpgrade and WASPostUpgrade
- Install WebSphere Extended Deployment V6.1 on each node host and augment each profile
- Run the XDUpgrade utility on each node to migrate it to WebSphere Extended Deployment V6.1

After upgrading the Deployment Manager, you will need to upgrade each of your member nodes. On each node, you will repeat the process that you just completed on the deployment manager, only you will create custom augmentations, rather than deployment manager augmentations.

A custom profile creates a profile with a Node Agent, but no Application Servers. Then, use WASPreUpgrade and WASPostUpgrade to migrate the configuration from your old installation into the newly created profile. After migrating the configuration data, install WebSphere Extended Deployment V6.1. Augment each node's profile using the z/PMT tool. Finally, run the XDUpgrade utility on each node to migrate it to WebSphere Extended Deployment V6.1

Summary

- Migrating from WebSphere Extended Deployment V6.0.2 to WebSphere Extended Deployment V6.1 requires WebSphere Application Server 6.1.0.8
- Use the z/PMT profile management tool to augment Extended Deployment profiles for each WebSphere Extended Deployment V6.1 product package
  - Start with Operations Optimization package
  - Then augment for the Compute Grid and Data Grid packages
- Compute Grid has a special migration path
- The XDUpgrade utility is used to perform the migration to WebSphere Extended Deployment V6.1

In summary, migrating WebSphere Extended Deployment 6.1 requires that you first install WebSphere Application Server 6.1.0.8, since WebSphere Extended Deployment is an add-on product, rather than a stand-alone product. The z/PMT profile management tool is used to augment Extended Deployment profiles for each WebSphere Extended Deployment V6.1 product package. Finally, run the XDUpgrade utility to migrate to WebSphere Extended Deployment V6.1.

Appendix 1: Compute grid migration

- Migrate LRA and LREE data bases, look at
  - <WAS_HOME>/longRunning/MIGLREE
  - <WAS_HOME>/longRunningMIGLRS
- Migrate scheduler (happens with Network Deployment migration)
- Configure grid scheduler from administrative console
- Migrate LREE as before

The compute grid component requires special handling as described here.

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