



WebSphere Application Server What's New?

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WebSphere Application Server on z/OS Sessions



Session	Title	Day	Time	Location	Speaker
12182	What's New?	Monday	11:00	Golden Gate 1	Stephen / Hutchinson
12185	WAS on z/OS - In Real Life	Monday	1:30	Golden Gate 1	Rod Feak / Follis
12184	Lab	Tuesday	12:15	Union Square 23- 24	Follis / Hutchinson / Loos / Stephen
12183	Liberty Server	Wednesday	11:00	Plaza B	Follis
12186	Spelunking the Admin Console	Wednesday	1:30	Plaza B	Hutchinson
12188	Being the Backup Administrator	Friday	9:30	Franciscan B	Loos

WebSphere Application Server – What's New?



- Level 2 Update
 - WAS V 6.1 extended 'end of service' date
 - MDVREGR / MDVPARTL
 - Liberty PreReqs / APARs
 - FLASHes / FITs
- Latest WAS Releases:
 - 8.0.0.5
 - 8.5.0.1 (Performance zEC12 JIT exploitation)
- WOLA updates
- BPM V8
- Other
 - Techdocs



WAS - What's "Pretty" New?



- See last SHARE's "What's New?" Session # 11375 (Proceedings from Atlanta, August, 2012)
 - Liberty Profile (WAS 8.5)
 - Compute Grid (part of WAS 8.5)
 - Virtual Enterprise (part of WAS 8.5)
 - Dynamic Clustering & Intelligent Routing
 - Health Management
 - Application Edition Management
 - Other: (part of WAS 8.5)
 - Java 7 SDK
 - XCT Log Viewer
 - ISA Data Collector
 - WebSphere Sample Applications
 - IBM Mobile Foundation



Versions, Dates and Service Levels..oh my



	GA	End of Marketing	End of Support
Version 6.1	6/30/2006	7/25/2011	9/30/2013
Version 7	9/26/2008		
Version 8	6/17/2011		
Version 8.5	6/15/2012		

- If delivered by Stack Product, EOS is that of Stack Product
- V8 (and beyond) iFixes for ALL Platforms
- http://www.ibm.com/software/support/lifecycle/index_a_z.html





MDVREGR / MDVPARTL in lieu of PE

- V8 and V8.5 no HIPER or PE Markings
 - Packaging and install changes
- Special Activity field updated with:
 - MDVREGR Fixing regression
 - MDVPARTL Fixing a partial fix
- If Highly Pervasive a FLASH Notification is sent as well

http://pic.dhe.ibm.com/infocenter/wasinfo/v8r5/topic/com.ibm.websphere.installation.zseries.doc/ae/tins_install_fixes_z.html



WebSphere V8.5 Pre-Reqs Liberty Profile



Z/OS Pre-REQs:

Program Number	Product Name and Minimum VRM/Service Level
5694-A01	z/OS V01.11.00 or later
5694-A01	PTF UA51978 (z/OS V01.11.00) Required for IHS V8.5 with SSL
5694-A01	APAR OA38745 for Distributed Mapping Identity function
5694-A01	APAR OA37620 (Metal-C) for Liberty Profile
5694-A01	APAR OA39035 (Metal-C) for Liberty Profile
5694-A01	APAR OA39236 (Metal-C) for Liberty Profile
5694-A01	APAR OA39528 (RRS) for Liberty Profile
5635-DB2	APAR PM59162 (DB2) for Liberty Profile

http://www.ibm.com/support/docview.wss?uid=swg21593282





APARs

- OA40015 z/OS SDUMP processing
 - SVC Dumps may not include high virtual user region
 - Results in missing information for problem analysis
- PM74657 Language Environment
 - 64 bit only
 - External symptom is continuous storage growth in WebSphere ASID's
 - Local Fix in APAR, or ++APAR available from LE L2





USS Info APAR II14684

- Severe Performance degradation with z/OS UNIX Apps
 - WebSphere App Server z/OS
 - Performance issues during server startup or heavy load
 - Significantly higher usage of GCP's for zAAP/zIIP eligible work
 - Slow HFS / zFS access
 - CML Lock contention
 - occurs with OEM security support of FSACCESS
 - even if not explicitly have the FSACCESS class profile defined
- TSS fixes: TR44615, TR48511
- ACF2 fix: RO45571
- http://www.ibm.com/support/docview.wss?uid=isg1II14684





Upcoming Maintenance

- OA41101 USS
- REQUIRED WebSphere Maintenance in support of OA41101
 - Can be installed PRIOR to OA41101
 - PM81836 (V6.1)
 - PM81837 (V7, V8, V8.5)
- TechDoc / FLASH from WebSphere forthcoming



FLASH - HTTP Server for z/OS Version 5.3 (PM79239/UK90469)



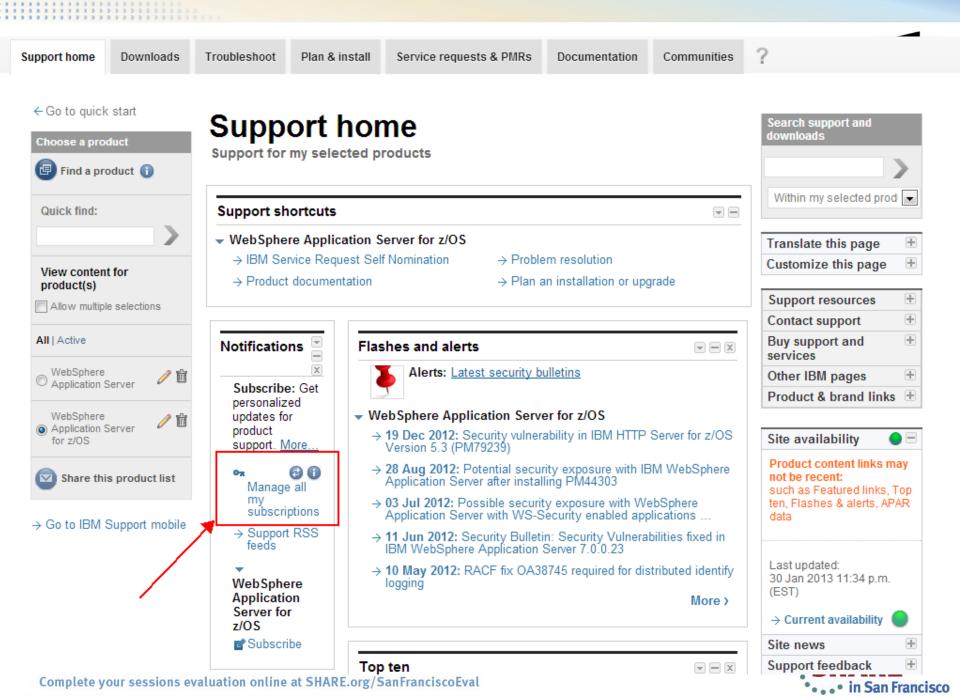
- After APPLY:
 - IMW0584W HTTP Server sslmode on is inconsistent with WebSphere plug-in V7 or later
- Installing / configuring the plug-in for V5.3 HTTP Server for z/OS
 - http://www14.software.ibm.com/webapp/wsbroker/redirect?
 version=compass&product=was-nd-mp&topic=trun_plugin_390
- Some of the common problems we've seen:
 - Running non-SSL between Plug-in and WebSphere
 - SSLMODE=MULTI (in httpd.conf)
 - http://pic.dhe.ibm.com/infocenter/wasinfo/v7r0/topic/com.ibm.websphere.zseries.doc /info/zseries/ae/twsv_merge_configfiles.html
 - Mis-configured httpd.conf files / using old plug-ins
- Flash url:
 - http://www-01.ibm.com/support/docview.wss?uid=swg21620945

WHY be FLASH'ed



- Reasons for receiving FLASH info:
 - MDVREGR / MDVPARTL notification
 - Security / Integrity
- Sign up from the IBM Support Portal Web Page
- https://www.ibm.com/support/entry/portal
 - Use your IBM ID it's FREE

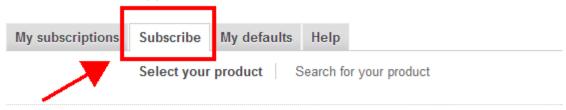






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- System p
- System x
- System z
- System Blue Gene
- IntelliStation Pro
- IBM Monitors
- IBM Systems Director

Software

- Information Management Clarity Systems Cognos OpenPages PureData Systems SPSS
- Lotus
- PureApplication System
- Rational
- Tivoli
- WebSphere
- Other Software
 Cluster software

ShowCase

Storage

- Disk systems
- Network Attached Storage
- Optical systems
- Storage software
- Tape systems

System Networking

- Data Center Ethernet
- Storage Area Network

IBM Operating Systems

- AIX 7.1





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■ WebSphere Application Server Community Edition

WebSphere Application Server for z/OS

WebSphere Multichannel Bank Transformation Toolkit

WebSphere Application Server Hypervisor Edition

WebSphere Partner Gateway - Express Edition

Scroll to the bottom... press continue

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FITS No More



- The FITS requirement process (for WAS anyway) is gone
- Now you can participate directly via the Request For Enhancements (RFE) process on DeveloperWorks:
 - http://www.ibm.com/developerworks/rfe/
- Search
- Submit
- Comment/Discuss
- VOTE!

developerWorks > RFE Community >

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History of Functional



Updates

8.0.0.1

8.0.0.0

See next page for continuation of timeline

Development/Test

- Test code on distributed development machine and have WOLA call "proxied" to z/OS where WAS z/OS server and backend data systems are located
- Support for inbound calls for EJB that resides in another WAS server from that connected to with WOLA registration

Work Distribution

 Ability to round-robin between multiple external address spaces registered into server with the same register name

Monitoring

- New SMF 120.10 record for outbound WOLA calls
- Correlator tokens for WAS to CICS TS 4.2 requests
- APIs -- support for 64-bit calls from C/C++ and Assembler
- Install -- integrated, olaInstall.sh no longer needed
- Usage IMS multi-segment/large message (>32K) support
- Availability -- Failover to alternate connection factory JNDI and failback
- Monitoring -- better visibility to WOLA inbound workload in SMF 120.9

7.0.0.12

- Usage -- Two-phase commit support WAS ⇒ CICS 4.1
- Usage -- IMS support

7.0.0.4

Original release of the WebSphere Optimized Local Adapters function

See the release detail pages that follow ...

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Recent Functional Updates

- Usage -- Two-phase commit support WAS ⇒ IMS over OTMA
- Usage -- enhanced CICS channels and containers support

8.0.0.5 (11/12)



8.0.0.4 (8/12)

• Usage -- Two-phase commit support IMS ⇒ WAS

8.0.0.3 (4/12)
• *Development* -- WOLA made an available feature of IBM Integration Designer tool for creating BPEL processes for Business **Process Management**

8.5.0.0 (6/12)

8.0.0.1

(9/11)

WOLA functionality from 8.0.0.1 equivalent to WOLA function found in 8.5.0.0

Detail pages follow ...



8.5.0.1

(10/12)

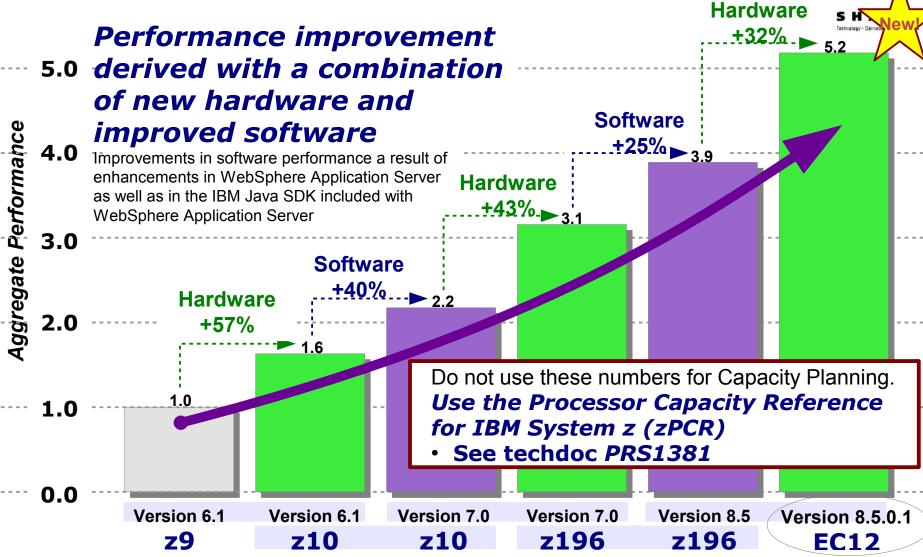
updates up through 8.0.0.4

Includes all the WOLA

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval



Summary of Performance Enhancements

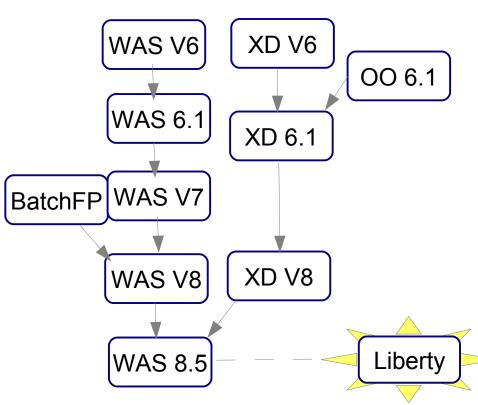


Performance measurement conducted in a controlled environment under specific conditions. Your results may vary based on many factors that influence overall system performance. Results here are not a promise of similar results. Results here are for traditional WebSphere Application Server z/OS and not the new Liberty Profile server. Test measured maximum achievable transactions per second with overall CPU held near 100%. Version 8 not shown here because Version 8 and Version 8.5 are roughly equivalent in performance profile. Workload based on "DayTrader" benchmark sample. Details on the DayTrader application may be found at this URL: https://cwiki.apache.org/GMOxDOC20/daytrader.html

Where did WAS 8.5 come from?



WebSphere Application Server on z/OS

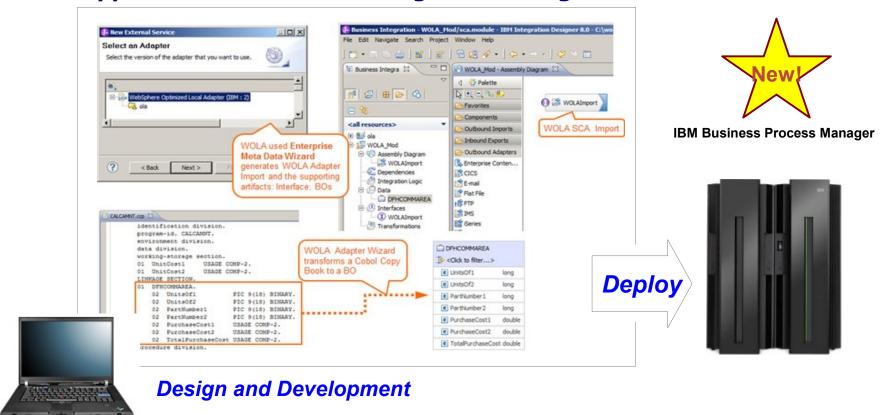


- XD = Extended Deployment
 - a.k.a. Compute Grid (CG)
- OO = Operations Optimization
 - → Virtual Enterprise (part of XD 6.1)
- BatchFP = Modern Batch FP
 - → Subset of XD (CG)
 - → Included in WAS V8
- WAS 8.5 includes CG, XD, VE, plus:
 - Liberty Profile
 - Java 7 SDK
 - XCT (Cross-Comp. Trace)



8.0.0.3 / 8.5.0.1 Release

WOLA support included in IBM Integration Designer for BPEL Processes ARE



developerWorks Article

http://www.ibm.com/developerworks/bpm/bpmjournal/1206_pacholski/1206_pacholski.html

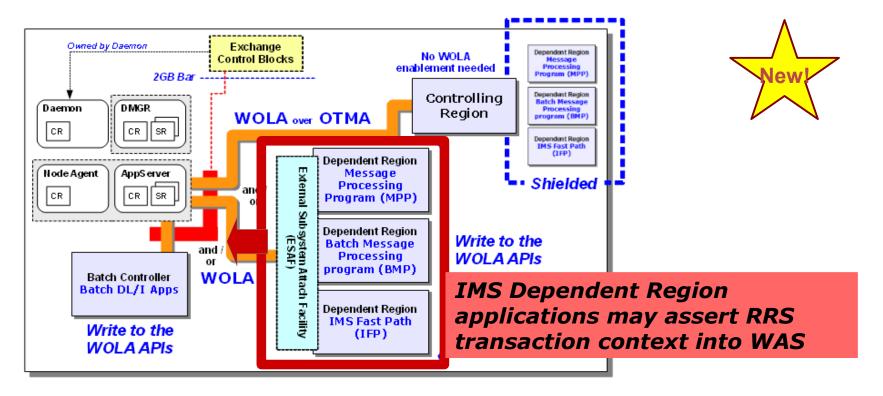
InfoCenter

http://pic.dhe.ibm.com/infocenter/dmndhelp/v8r0mx/topic/com.ibm.wbpm.wid.integ.doc/topics/wolaoverview.html

8.0.0.4 / 8.5.0.1 Release

RRS transaction context assertion from IMS into WAS over WOLA





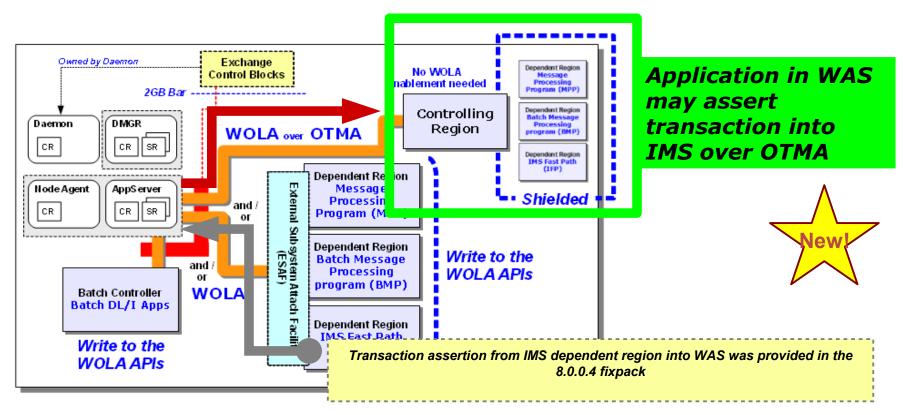
- Applications in IMS use set the "transaction supported" flag on register API
- Target WAS environment has adapter rrs propagate context = 1 environment variable set and enabled
- IMS Control Region needs to be running with RRS=Y





8.0.0.5 Release, Part 1

RRS transaction context assertion from WAS into IMS over WOLA/OTMA



- IMS Control Region needs to be running with RRS=Y
- Target WAS environment has adapter_rrs_propagate_context = 1 environment variable set and enabled



IRM

WebSphere Application Server z/OS Optimized Local Adapter

8.0.0.5 Release, Part 2

Enhanced support for CICS Channels and Containers



Before ...

CICS channels & containers support was limited to a <u>single fixed-name channel</u> for both request and response, and a <u>single container</u> of type BIT or CHAR.

With 8.0.0.5 or later ...

Send and receive one or more containers from target CICS program.

- Channel name set using setLinkTaskChanID() method.
- Channel type set using setLinkTaskChanType() method.
- Request containers named using the put() method to the MappedRecord.
- MappedRecord Keys correspond to the CICS container names, and the corresponding value is used to fill the container in CICS.
- Response container names returned to the client after the CICS request is finished (extracted from the channel & populated in a new MappedRecord.)



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IBM Businss Process Manager for z/OS V8: Building Process Server Components



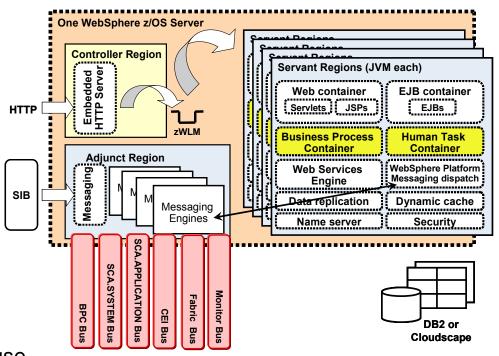
- Deployment Manager
- Empty Node
- 1 Cluster (D.E. Wizard)
- **2 Databases** (891 Tables)
- 15 Data sources
 - Common WPS & ESB (2)
 - Business Process Container
 - Business Space (2)
 - Process Server (2)
 - Data Warehouse (2)
 - Messaging Engines (6)

6 SI Buses & MEs

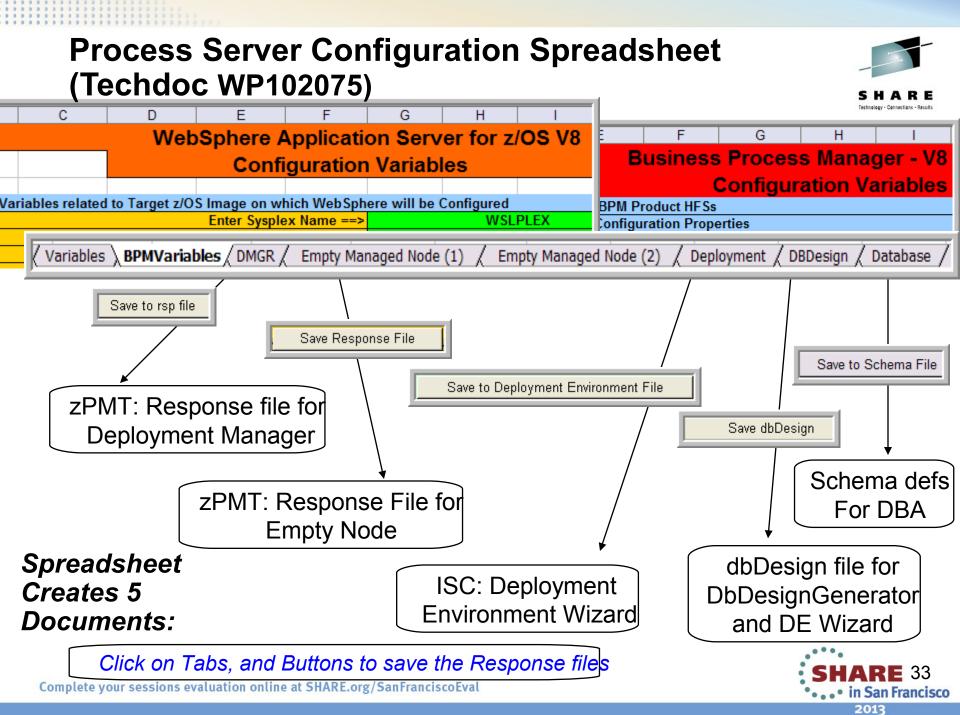
- SCA System & Application bus
- CEI bus, BPC bus
- Process Server, Data Warehouse

29 BPM Applications

- Business Flow Manager, Human Task Manager, BPE Container, ...
- BPC Explorer & Observer, Business Rules Manager
- Process Portal, Process Admin, Performance Data Warehouse
- Business Space, IBM BPM Teamworks, Hiring Sample



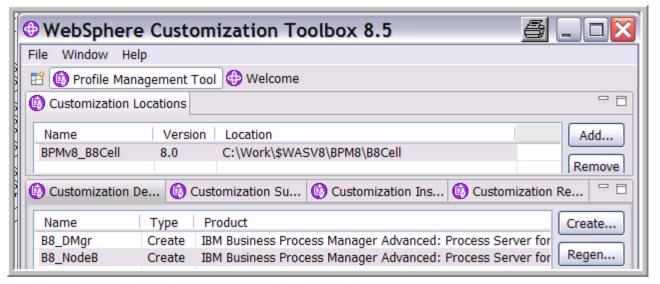




Configuration Jobs for Deployment Manager & Empty Node



- Stack Environment including BPM Advanced: Process Server
 - Create BPM V8 DMGR
 - Import Spreadsheet Response file (DMGR)
 - Review the Panels, "Create" & "Finish"
 - "Process" when complete to Generate and FTP Jobs
 - Create BPM V8 Custom Node
 - Import Spreadsheet Response file (Empty Nodes)
 - Review the Panels, "Create" & "Finish"
 - "Process" when complete to Generate and FTP Jobs





Create / Configure DMGR & Empty (Custom) Node



Configuration Jobs created by the PMT:

Deployment Manager:

- BBOSBRAK Define RACF Users & Groups
- BBOSBRAM Create Home Directories
- **BBODBRAK** Create RACF Profiles & Permissions
- BBODCFS Create zFS
- BBODHFSA Populate zFS
- **BBOWWPFD** Create Profiles
- **BBODPROC** Copy Proclib members
- BPZAUGD Augment profiles with BPM: ProcessServer

Empty Node

- **BBOMCFS** Create zFS
- **BBOMHFSA** Populate zFS
- **BBOWWPFM** Create Profiles
- **BBOMPROC** Copy Procs
- BPZAUGN Augment with BPM: Process Server
- BBOWMNAN Federate Empty Node



Create DB2 Database Tables



 Generate sql templates with .dbDesign file from Spreadsheet:

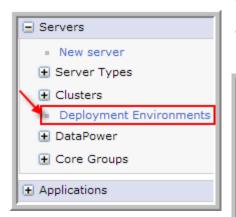
```
cd cd cprofile_root>/util/dbUtils
./DbDesignGenerator.sh -g /wpswork/b0Cell.dbdesign
```

- Create DB2 StoGroup & Databases & GRANTs
 Use the b0cell.sql file from the Spreadsheet (copy/paste)
- Create Cell-scoped database Tables
 cd <profile_root>/dbscripts/B0CELLDB
 ./createDB2.sh -DBAlias b0admin -RunSQL
- Create Cluster-scoped database Tables
 cd <profile_root>/dbscripts/B0SR01DB
 ./createDB2.sh -DBAlias b0admin -RunSQL

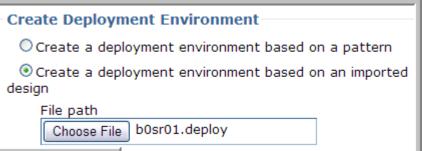


Create the Deployment Environment Cluster

with Deployment Environment wizards HARE



 Use the .deploy & .dbDesign files from the spreadsheet for definitions (Cluster, Data sources, etc.)



Create new deployment environment **Step 1: Select Nodes** Step 2: Clusters Step 3: System REST Service Endpoints Step 4: Import database configuration Step 5: Database Step 6: Security Step 7: Process Server Step 8: Business Process Choreographer Step 9: Web Application Context Roots Step 10: Summary

Next, Next, Next, & Generate the Cluster

Import database configuration

If you defined a database design document, enter the document name in the following field to import it into the new deployment environment. The database design document defines the database configuration for the selected deployment environment features. If you do not have a database design document, click **Next** to define the database parameters on the following page.

Import database configuration file for features:

C:\wpswork\b0sr01.dbDesign

Browse...

Clear

Finally: Update with WpsUpdate.py & bootstrapProcessServerData.sh

anFranci**scra**pts

• • • in San Francisco

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New Techdocs



- WP102231 Compute Grid Capacity Planning Report
- WP102230 Performance when writing to Shared zFS with z/OS 1.3
- WP102205 Guide to WAS z/OS Documentation and Presentation
- WP102204 Using security domains in WebSphere Application Server on z/OS
- WP102197 Demystifying calling a remote type 3 EJB in WAS on z/OS
- WP102188 WAS V6.1 for z/OS Exit Plan: Step by step Install/Configure/Migrate to WAS V8 using Installation Manager on z/OS
- WP102110 WebSphere Liberty Profile for z/OS
- WP102033 WAS z/OS V8 Resource Adapter Failover Lab
- WP102075 BPM V8 for z/OS Configuration Guide
- PRS5030 BPM V8 for z/OS Implementation Workshop (ZBPM8)
- TD106002 WebSphere AppServer V8.5 SMF Browser for Job Usage data
- TD105994 Where are the Sample Applications for WAS Version 8.5?
- TD105993 EJBDeploy Optional feature in WebSphere Application Server V8

Updated:

- PRS4944 WAS z/OS Version 8 Configuration Spreadsheets
- WP101896 WebSphere Application Server z/OS V8
- WP101532 Why WebSphere Application Server for z/OS
- WP101490 WebSphere z/OS Optimized Local Adapters
- TD104172 WSC Guide to a Healthy WAS



System z Social Media Channels

- Top Facebook pages related to System z:
 - IBM System z
 - IBM Academic Initiative System z
 - IBM Master the Mainframe Contest
 - IBM Destination z
 - Millennial Mainframer
 - IBM Smarter Computing
- Top LinkedIn groups related to System z:
 - System z Advocates
 - SAP on System z
 - IBM Mainframe- Unofficial Group
 - IBM System z Events
 - Mainframe Experts Network
 - System z Linux
 - Enterprise Systems
 - Mainframe Security Gurus
- Twitter profiles related to System z:
 - IBM System z
 - IBM System z Events
 - IBM DB2 on System z
 - Millennial Mainframer
 - Destination z
 - IBM Smarter Computing

YouTube accounts related to System z:
IBM System z
Destination z

IBM Smarter Computing

- Top System z blogs to check out:
 - Mainframe Insights
 - Smarter Computing
 - Millennial Mainframer
 - Mainframe & Hybrid Computing
 - The Mainframe Blog
 - Mainframe Watch Belgium
 - Mainframe Update
 - Enterprise Systems Media Blog
 - Dancing Dinosaur
 - DB2 for z/OS
 - IBM Destination z



WebSphere Application Server on z/OS Sessions



Session	Title	Day	Time	Location	Speaker
12182	What's New?	Monday	11:00	Golden Gate 1	Stephen / Hutchinson
12185	WAS on z/OS - In Real Life	Monday	1:30	Golden Gate 1	Rod Feak / Follis
12184	Lab	Tuesday	12:15	Union Square 23- 24	Follis / Hutchinson / Loos / Stephen
12183	Liberty Server	Wednesday	11:00	Plaza B	Follis
12186	Spelunking the Admin Console	Wednesday	1:30	Plaza B	Hutchinson
12188	Being the Backup Administrator	Friday	9:30	Franciscan B	Loos





