

WebSphere Portal 8.5

Manual Full Deployment

Table of Content

1	Information	3
2	Backup - Target.....	4
3	WebSphere Application Server Artifacts.....	5
3.1	WebSphere Enterprise Applications (Ear)	5
3.2	Resource Environment Variables	6
3.3	JDBC Provider	6
3.4	Datasource	7
3.5	Shared Libraries	8
3.6	JVM Configurations	8
3.7	Jar files	11
4	PZN Rules	12
4.1	Export PZN Rule – Source	12
4.2	Import PZN Rule – Target	14
5	WCM Library.....	17
5.1	Export WCM Library – Source	17
5.2	Import WCM Library – Target.....	18
5.3	Validate	19
6	Export - Source	21
6.1	Create Source XML File	21
6.2	Compress Archive	21
6.3	Copy Files - SOURCE to TARGET	22
7	Import - Target.....	23
7.1	Empty-Portal	23
7.2	Archive Directory.....	23
7.3	Update Import XML.....	23
7.4	Import XML	24
7.5	Activate Portlets	24
8	WCM Authoring Update - Target.....	25

1 Information

This document will help deploy the different WebSphere Portal and WebSphere application server artifacts from one environment to another manually.

Useful links:

- WebSphere Portal 8.5 Infocenter
http://www-01.ibm.com/support/knowledgecenter/#!/SSHRKX_8.5.0/welcome/wp_welcome.html
- WebSphere Portal 8.5 Detailed System Requirements
<http://www-01.ibm.com/support/docview.wss?uid=swg27007791>
- WebSphere Application Server 8.5.5 Infocenter
http://www-01.ibm.com/support/knowledgecenter/?lang=en#!/SSAW57_8.5.5/as_ditamaps/was855_welcome_ndmp.html

This document is not written or supported by IBM Support

Name	Date	Version	Description
Loc Dang	May 11,2017	V1	WebSphere Portal 8.5 Manual Full Deployment

2 Backup - Target

This section will help with the backup of the WebSphere Portal environment pages and Portal references. This step is optional but is helpful if you decide you would like to revert back to the original pages and portlets.

1. Login to the WebSphere Portal target environment.
2. Navigate to the bin directory of the WebSphere Portal home

```
<WP_HOME>/bin
```

Example:

WIN `E:\IBM\WebSphere\PortalServer\bin`

UNIX `/opt/IBM/WebSphere/PortalServer/bin`

3. Run the following xmlaccess command on one line to do a full export release

```
xmlaccess.(bat/sh) -in <WP_HOME>/doc/xml-samples/ExportRelease.xml -  
user <WPADMIN> -password <WPPWD> -url  
http://<HOSTNAME>:<PORT>/wps/config -out <EXPORT_FILE>
```

Example: WINDOWS

```
xmlaccess.bat -in E:\IBM\WebSphere\PortalServer\doc\xml-  
samples\ExportRelease.xml -user wpadmin -password passw0rd -url  
http://localhost:10039/wps/config -out E:\tmp\EXPORT_tgt.xml
```

Example: UNIX

```
xmlaccess.sh -in /opt/IBM/WebSphere/PortalServer/doc/xml-  
samples/ExportRelease.xml -user wpadmin -password passw0rd -url  
http://localhost:10039/wps/config -out /tmp/EXPORT_tgt.xml
```

4. Backup the WebSphere Portal archive directory. When running the empty-portal ConfigEngine command it will delete all war files being used by WebSphere Portal

```
<WP_PROFILE>/PortalServer/deployed/archive
```

Examples:

WIN `E:\IBM\WebSphere\wp_profile\PortalServer\deployed\archive`

UNIX `/opt/IBM/WebSphere/wp_profile/PortalServer/deployed/archive`

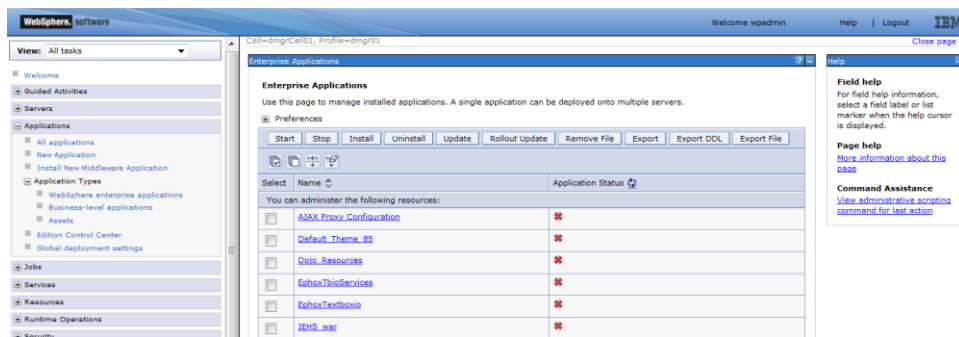
3 WebSphere Application Server Artifacts

These are the common customizations made when using WebSphere Portal. This section might not be all the changes but it will be a good starting point of what to look for.

1. WebSphere Enterprise Applications (Ear)
2. Resource Environment Variables
3. JDBC Providers
4. Datasource
5. Shared Libraries
6. JVM Configurations
7. Jar files

3.1 WebSphere Enterprise Applications (Ear)

The WebSphere Enterprise Application includes the WebSphere Portal custom theme, external servlets, or services.



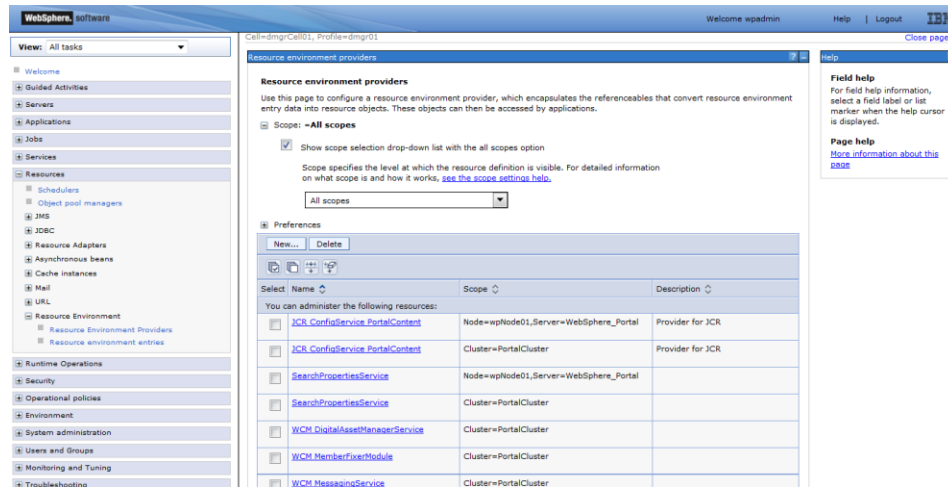
1. Login to the WebSphere Application Console of the target environment

`http://<HOSTNAME>:<PORT>/ibm/console`

Example: <http://wpstgt.ibm.com:9043/ibm/console>

2. Navigate to Applications > Application Types > WebSphere enterprise applications
3. Verify all Enterprise Applications other then PA_* matches the source environment. PA_* are usually WebSphere Portal web modules installed using the WebSphere Portal Server Administration or xmlaccess
4. If an application is not installed, install it by clicking **Install** and follow the steps on the screen

3.2 Resource Environment Variables



1. Login to the WebSphere Application Console of the target environment

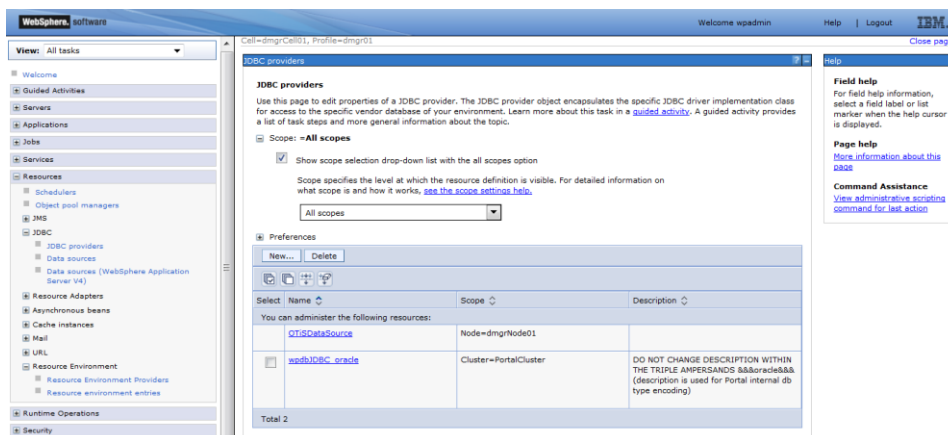
`http://<HOSTNAME>:<PORT>/ibm/console`

Example: <http://wpstgt.ibm.com:9043/ibm/console>

2. Navigate to Resources > Resource Environment > Resource Environment providers
3. Review each Resource Environment provider and verify it matches the source environment.

3.3 JDBC Provider

If a JDBC Provider is required, copy the database driver to all WebSphere Portal environments.



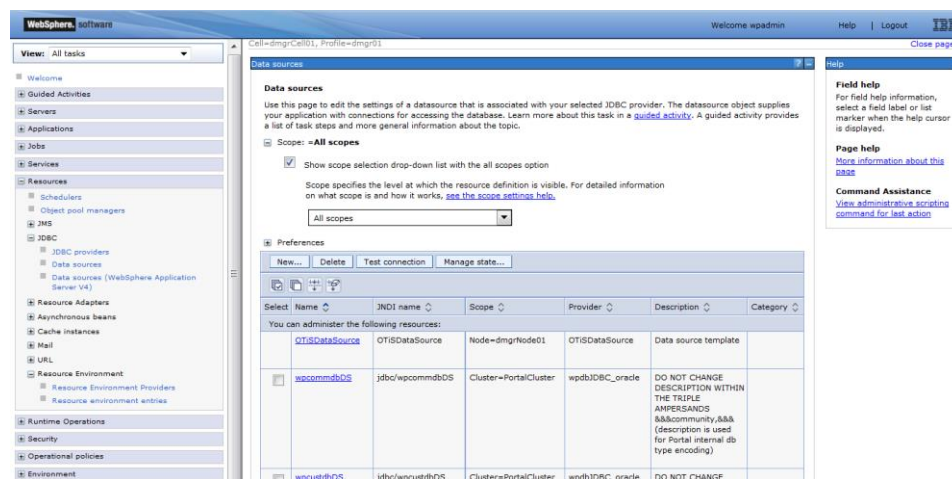
1. Login to the WebSphere Application Console of the target environment

<http://<HOSTNAME>:<PORT>/ibm/console>

Example: <http://wpstgt.ibm.com:9043/ibm/console>

2. Navigate to Resources > JDBC > JDBC providers
3. Review the JDBC provider to verify it matches the source environment
4. If there is a new JDBC provider, place the database driver on each of the WebSphere Portal environment.
5. Click **New** and follow the steps on the screen to create the datasource

3.4 Datasource



1. Login to the WebSphere Application Console of the target environment

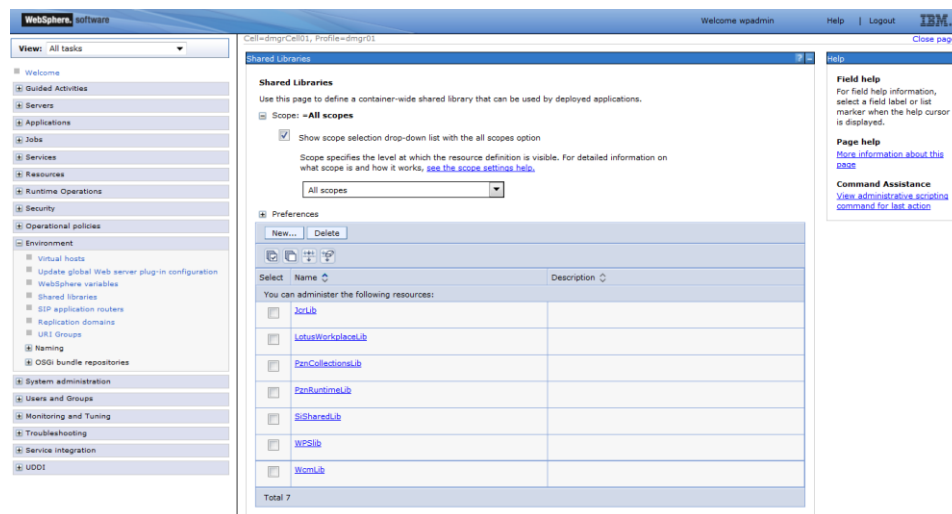
<http://<HOSTNAME>:<PORT>/ibm/console>

Example: <http://wpstgt.ibm.com:9043/ibm/console>

2. Navigate to Resources > Data sources
3. Review the list of Data sources and verify it matches the source environment.
4. If a new Data source is required, verify the database username and password to connect to the database is created in the J2C authentication data Security > Global security > Java Authentication and Authorization Server > J2C authentication data
5. Create the Data source by clicking **New** and following the steps on the screen

3.5 Shared Libraries

If changes are required, verify all files are copied to all WebSphere Portal environment



1. Login to the WebSphere Application Console of the target environment

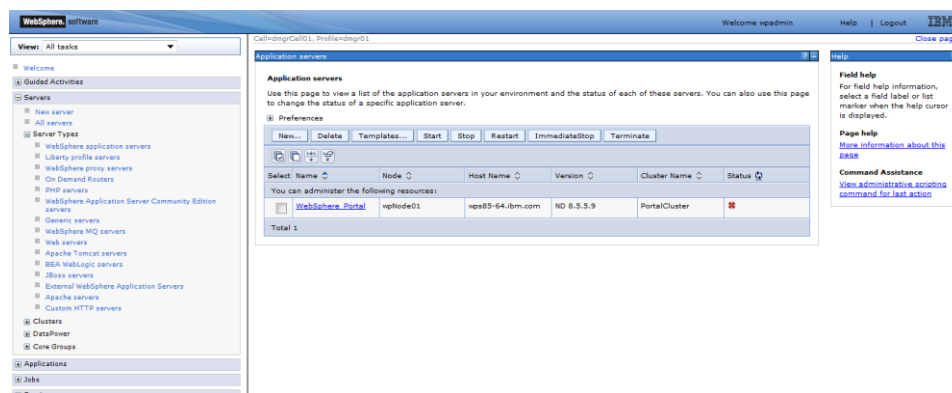
`http://<HOSTNAME>:<PORT>/ibm/console`

Example: <http://wpstgt.ibm.com:9043/ibm/console>

2. Navigate to Environment > Shared libraries
3. Review each Shared library and verify it matches the source environment. The Shared libraries are mapped to a specific directory on the file system. Verify the directory exist and the content in the directory matches on both target and source environment. If it does not, copy the source files to the target environment. To create a Shared library, click new and follow the steps on the screen

3.6 JVM Configurations

If changes are required, make sure all WebSphere Portal jvm's are updated



1. Login to the WebSphere Application Console of the target environment

`http://<HOSTNAME>:<PORT>/ibm/console`

Example: <http://wpstgt.ibm.com:9043/ibm/console>

2. Navigate to Servers > Server Types > WebSphere application servers
3. Click on WebSphere_Portal

The screenshot shows the 'Application servers' configuration page for 'WebSphere_Portal'. The page has tabs for 'Configuration', 'Reports', and 'Operations'. The 'Configuration' tab is active, showing a 'General Properties' section with fields for 'Name' (WebSphere_Portal) and 'Node name' (wpNode01). There are checkboxes for 'Run in development mode', 'Parallel start' (checked), and 'Start components as needed'. A dropdown for 'Access to internal server classes' is set to 'Allow'. Below this is the 'Server-specific Application Settings' section with a 'Classloader policy' dropdown set to 'Multiple' and a 'Class loading mode' dropdown set to 'Classes loaded with local class loader first (parent last)'. At the bottom are 'Apply', 'OK', 'Reset', and 'Cancel' buttons. On the right, there are expandable sections for 'Container Settings' (including Session management, SIP Container Settings, Web Container Settings, Portlet Container Settings, EJB Container Settings, Container Services, and Business Process Services), 'Applications' (including Installed applications), 'Server messaging' (including Messaging engines, Messaging engine inbound transports, WebSphere MQ link inbound transports, and SIB service), and 'Server Infrastructure' (including Java and Process Management with sub-items Class loader, Process definition, Process execution, and Monitoring policy; Administration; and Java SDKs).

4. Under **Server Infrastructure**, expand **Java and Process Management**
5. Click **Process definition**

Application servers

Application servers > WebSphere Portal > Process definition

Use this page to configure a process definition. A process definition defines the command line information necessary to start or initialize a process.

Configuration

General Properties	Additional Properties
Executable name <input type="text"/>	<input type="checkbox"/> Java Virtual Machine <input type="checkbox"/> Environment Entries <input type="checkbox"/> Process execution <input type="checkbox"/> Process Logs <input type="checkbox"/> Logging and tracing
Executable arguments <input type="text"/>	
Start command <input type="text"/>	
Start command arguments <input type="text"/>	
Stop command <input type="text"/>	
Stop command arguments <input type="text"/>	
Working directory <input type="text" value="\${USER_INSTALL_ROOT}"/>	
Executable target type <input type="text" value="JAVA_CLASS"/>	
Executable target <input type="text" value="com.ibm.ws.runtime.WsServer"/>	
<input type="button" value="Apply"/> <input type="button" value="OK"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/>	

6. Under Additional Properties, click Java Virtual Machine

Application servers

Application servers > WebSphere Portal > Process definition > Java Virtual Machine

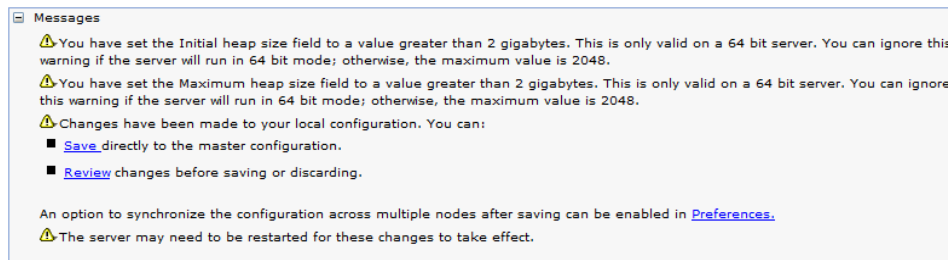
Use this page to configure advanced Java(TM) virtual machine settings.

Configuration

General Properties	Additional Properties
Classpath <input type="text" value="\${WPS_HOME}/base/wp.script/lib/wp.wire.jar"/>	<input type="checkbox"/> Custom properties
Boot Classpath <input type="text"/>	
<input type="checkbox"/> Verbose class loading <input checked="" type="checkbox"/> Verbose garbage collection <input type="checkbox"/> Verbose JNI	
Initial heap size <input type="text" value="4096"/> MB	
Maximum heap size <input type="text" value="4096"/> MB	
<input type="checkbox"/> Run HProf HProf Arguments <input type="text"/>	
<input type="checkbox"/> Debug Mode Debug arguments <input type="text" value="-agentlib:jdwp=transport=dt_socket,server=y,suspend=n,address=7777"/>	
Generic JVM arguments <input type="text" value="\${WPS_JVM_ARGUMENTS_EXT}"/>	

7. Compare the **Initial heap size/Maximum heap size** with the source environment
8. Compare the **Generic JVM arguments** with the source environment
9. Compare the **Verbose garbage collection** with the source environment

10. If no changes are required, the rest of the steps in this section can be skipped
11. If changes are required, update the changes
12. Click **OK**



13. Click **Save** to save to the master configuration

3.7 Jar files

If additional jar files are required, make sure all WebSphere Portal environments are updated

1. Login to the target environment file system
2. Navigate to the **ext** directory of the WebSphere Application Server home

```
<WAS_HOME>/lib/ext
```

Example:

```
WIN E:\IBM\WebSphere\AppServer\lib\ext\  
UNIX /opt/IBM/WebSphere/Appserver/lib/ext/
```

3. Compare the files and directory with the source environment
4. If there are any differences, update the target environment with the updates

4 PZN Rules

If there are PZN Rules that needs to be deployed from the source to target environment, follow the section.

4.1 Export PZN Rule – Source

1. Open a browser and set the URL to the WebSphere Portal Server Personalization page of the source environment

`http://<HOSTNAME>:<PORT>/wps/myportal/Applications/Peronsalization`

Example:

`http://wpsrc.ibm.com:10039/wps/myportal/Applications/Personalization`

The screenshot shows the IBM WebSphere Portal Server Personalization login page. At the top, there is a header bar with the text "Log in to use authoring capabilities" and the IBM logo. Below the header, there is a dark blue bar with the IBM logo on the left and "Sign Up | Log In" on the right. The main content area is white and contains the text "Log in with your Portal account". Below this, there are two input fields: "User ID:" with the value "wpadmin" and "Password:" with a masked password "*****". There are two buttons: "Log in" and "Cancel". Below the buttons, there is a link "Not registered? Sign up". At the bottom, there is a footer bar with two columns: "Help" and "Support". The "Help" column contains links to "Product documentation", "Product wiki", "Media gallery", and "WebSphere Portal Zone". The "Support" column contains links to "Support page", "Supported hardware and software", and "IBM Software Support Guide".

2. Enter the Administrator (wpadmin) username/password and click Log in

Published Site Edit Mode: OFF

wpadmin Actions Log Out Search Site

Content Collaboration Messaging Personalization Unified Task List Site Builder Theme Development

Welcome Business Rules Personalized List

Personalization > Welcome

Personalize your site by targeting content specific to site visitors.

Use personalization rules to split your site visitors into different segments. Use the in-line Content Targeting Editor to target content to those segments.

First Steps
Create custom experiences for your site visitors

3. Click Business Rules

Published Site Edit Mode: OFF

wpadmin Actions Log Out Search Site

Content Collaboration Messaging Personalization Unified Task List Site Builder Theme Development

Welcome Business Rules Personalized List

Personalization > Business Rules

Personalization Navigator

New Import Delete Extra Actions Select View: All Personalization Objects

Browsing Workspace

Workspace

ManagedPage New_User_Rule ToolbarApplication ToolbarFeature VanityURLVisibility

Copy Move Edit Access Export Version Publish

Type	Author	Last Modified
Visibility Rule		March 10, 2014 at 9:30 AM
Visibility Rule	wpadmin	May 11, 2017 at 6:00 PM
Application Object		September 25, 2014 at 5:07 AM
Visibility Rule		September 25, 2014 at 5:08 AM
Visibility Rule		February 26, 2014 at 8:02 AM

Hide Explorer View (1 selected) Page 1 of 1

Personalization Editor

Document Info

Workspace Root

Located in ROOTWORKSPACE

4. Check the checkbox by the PZN Rule

Example: `New_User_Rule`

5. Click Extra Actions > Export

6. Save the file to your local system

Example: `New_User_Rule.nodes`

NOTE: This file will be used to import the PZN Rule

4.2 Import PZN Rule – Target

1. Open a browser and set the URL to the WebSphere Portal Server Personalization page of the target environment

`http://<HOSTNAME>:<PORT>/wps/myportal/Applications/Peronsalization`

Example:

`http://wpstgt.ibm.com:10039/wps/myportal/Applications/Personalization`

The screenshot shows the login interface for the WebSphere Portal Server Personalization page. At the top, there is a header bar with the IBM logo and a 'Log in' link. Below the header, the main content area is titled 'Log in with your Portal account'. It contains two input fields: 'User ID:' with the value 'wpadmin' and 'Password:' with a masked password '*****'. Below these fields are 'Log in' and 'Cancel' buttons. A link for 'Not registered? Sign up' is also present. At the bottom, there is a footer section with 'Help' and 'Support' links.

2. Enter the Administrator (wpadmin) username/password and click Log in

The screenshot shows the dashboard after logging in as 'wpadmin'. The top navigation bar includes 'Published Site', 'Edit Mode: OFF', and a search bar. The main navigation menu has tabs for 'Content', 'Collaboration', 'Messaging', 'Personalization', 'Unified Task List', 'Site Builder', and 'Theme Development'. The 'Personalization' tab is active, showing a 'Welcome' message and a 'Business Rules' link. Below the navigation bar, there is a large banner titled 'Personalize your site by targeting content specific to site visitors.' with a sub-header 'Use personalization rules to split your site visitors into different segments. Use the in-line Content Targeting Editor to target content to those segments.' and an illustration of a person with a gear. At the bottom, there is a section titled 'First Steps' with the text 'Create custom experiences for your site visitors' and a small image of a server rack.

3. Click Business Rules

Published Site Edit Mode: OFF

wpadmin Actions Log Out Search Site

Content Collaboration Messaging **Personalization** Unified Task List Site Builder Theme Development

Welcome Business Rules Personalized List

Personalization > Business Rules

Personalization Navigator

New Import Delete Extra Actions

Select View: All Personalization Objects

Browsing Workspace

Workspace

Name	Type	Author	Last Modified
ManagedPagesVisibilityRule	Visibility Rule		March 10, 2014 at 9:30 AM
ToolbarApplicationObject	Application Object		September 25, 2014 at 5:07 AM
ToolbarFeatureVisibilityRule	Visibility Rule		September 25, 2014 at 5:08 AM
VanityURLVisibilityRule	Visibility Rule		February 26, 2014 at 8:02 AM

Hide Explorer View

Personalization Editor

Document Info

Workspace Root
Located in ROOTWORKSPACE

4. Click Import

Personalization Navigator

Import Documents

Documents will be imported to 'Workspace Root'

* Browse for a document or set of documents to import:

Browse... No file selected.

Import Cancel

5. Click Browse

6. Browser on the local system for the exported PZN rule

Example: `New_User_Rule.nodes`

Personalization Navigator

Import Documents

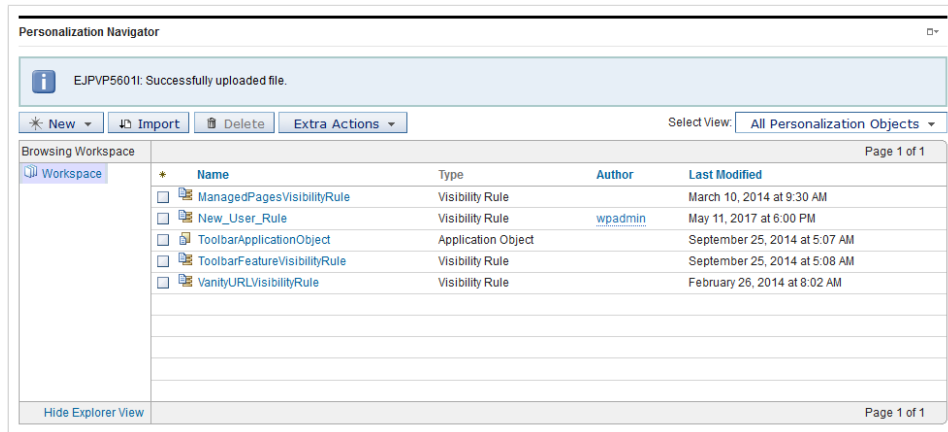
Documents will be imported to 'Workspace Root'

* Browse for a document or set of documents to import:

Browse... New_User_Rule.nodes

Import Cancel

7. Click Import



8. Verify the success message

Successfully uoloaded file.

9. Verify the PZN rule is present

Example: New_User_Rule

5 WCM Library

https://www.ibm.com/support/knowledgecenter/en/SSYJ99_8.5.0/wcm/wcm_config_wcm_library_export.html

5.1 Export WCM Library – Source

1. Login to the WebSphere Portal file system
2. Navigate to the ConfigEngine directory of the WebSphere_Portal profile

```
<WP_PROFILE>/ConfigEngine
```

Example:

```
WIN E:\IBM\WebSphere\wp_profile\ConfigEngine
UNIX /opt/IBM/WebSphere/wp_profile/ConfigEngine
```

3. Run the following command on one line to export the WCM Library

```
ConfigEngine.(bat/sh) -Dexport.directory=<EXPORT_LOCATION> -
Dexport.libraryname=<NAME_OF_LIBRARY> -
Dexport.singledirectory=<true/false> export-wcm-data -
DPortalAdminPwd=<WP_PWD> -DWasPassword=<WAS_PWD>
```

Example: Single Directory

```
ConfigEngine.bat -Dexport.directory=F:\WCM\Library -
Dexport.libraryname="WCMLib 1;WCMLib 2" -Dexport.singledirectory=true
export-wcm-data -DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

Results:

```
F:\WCM\Export\554ee7f5\...
```

Example: Multiple Library Directory

```
ConfigEngine.sh -Dexport.directory=/opt/WCM/Library -
Dexport.libraryname="WCMLib_1;WCMLib_2" -Dexport.singledirectory=false
export-wcm-data -DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

Results:

```
/opt/WCM/Library/wcmlib_1
/opt/WCM/Library/wcmlib_2
```

4. Compress the Library directory. On windows, do not use the compression program that comes with windows. Use an 3rd part program such as winzip, winrar, and 7zip,

Example:

```
Zip wcmExport.zip
Tar wcmExport.tar
```

5. Copy the compress media file to the target server

Example:

From WIN F:\WCM\Export\wcmExport.zip
From UNIX /opt/WCM/Export/wcmExport.tar

Example:

To WIN F:\WCM\Import\wcmExport.zip
To UNIX /opt/WCM/Import/wcmExport.tar

5.2 Import WCM Library – Target

6. Login to the WebSphere Portal file system
7. Extract the exported library from the source environment

Example: Single Directory

WIN F:\WCM\Library\554ee7f5\...\br/>**UNIX** /opt/WCM/Library/554ee7f5/...

Example: Multiple Library Directory

WIN F:\WCM\Library\wcmlib_1
F:\WCM\Library\wcmlib_2

UNIX /opt/WCM/Library/wcmlib_1
/opt/WCM/Library/wcmlib_2

8. Navigate to the ConfigEngine directory of the WebSphere_Portal profile
 <WP_PROFILE>/ConfigEngine

Example:

WIN E:\IBM\WebSphere\wp_profile\ConfigEngine
UNIX /opt/IBM/WebSphere/wp_profile/ConfigEngine

9. Run the following command on one line to import the WCM Library

- Single Directory

```
ConfigEngine.(bat/sh) -Dimport.directory=<IMPORT_LOCATION> import-wcm-  
data -DPortalAdminPwd=<WP_PWD> -DWasPassword=<WAS_PWD>
```

Example: Windows

```
ConfigEngine.bat -Dimport.directory=F:\WCM\Library\ import-wcm-data -  
DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

Example: UNIX

```
ConfigEngine.sh -Dimport.directory=/opt/WCM/Library/ import-wcm-data -  
DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

- Multiple Library Directory

```
ConfigEngine.(bat/sh) -Dimport.directory=<LIB_LOCATION>;<LIB_LOCATION>;  
import-wcm-data -DPortalAdminPwd=<WP_PWD> -DWasPassword=<WAS_PWD>
```

Example: Windows

```
ConfigEngine.bat -  
Dimport.directory="F:\WCM\Import\wcmlib_1;F:\WCM\Import\wcmlib_2"  
import-wcm-data -DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

Example: UNIX

```
ConfigEngine.sh -  
Dimport.directory="/opt/WCM/Import/wcmlib_1;/opt/WCM/Import/wcmlib_2"  
import-wcm-data -DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

5.3 Validate

1. Open a browser and set the URL to the WebSphere Portal Server Administration page of the target environment

```
http://<HOSTNAME>:<PORT>/wps/myportal/Administration
```

Example:

```
http://wpstgt.ibm.com:10039/wps/myportal/Administration
```

Log in to use authoring capabilities

IBM

Sign Up | Log In

Log in with your Portal account

User ID:

wadmin

Password:

Log in Cancel

Not registered? Sign up

Help

Product documentation

Product wiki

Media gallery

WebSphere Portal Zone

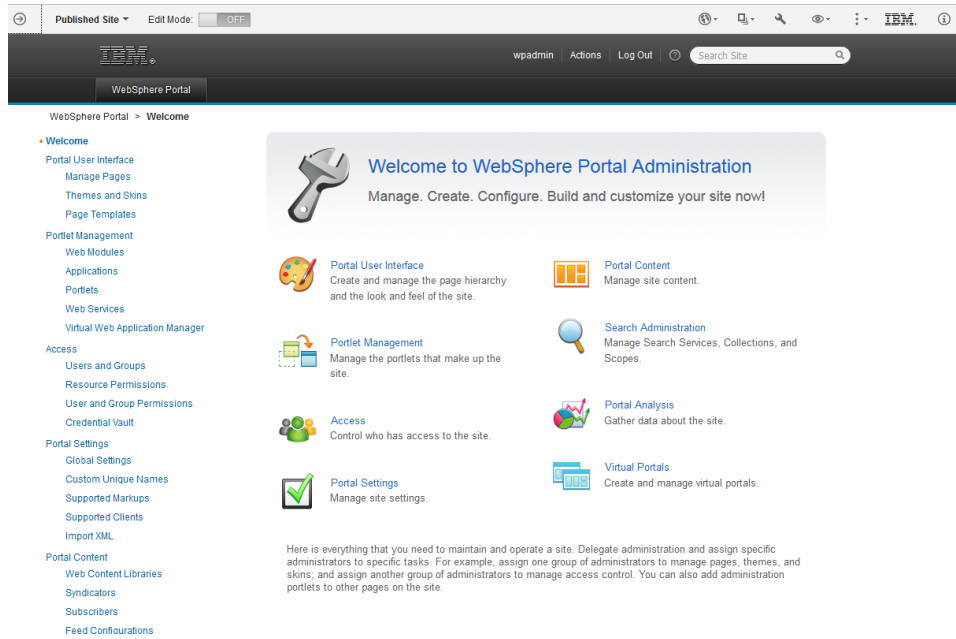
Support

Support page

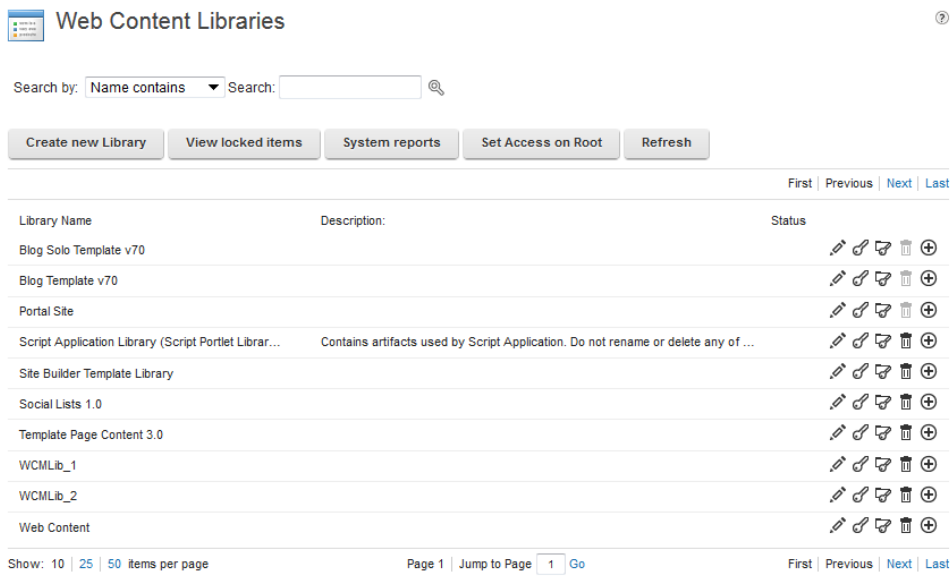
Supported hardware and software

IBM Software Support Guide

2. Enter the Administrator (wadmin) username/password and click Log in



3. Under Portal Content, click Web Content Library



4. Verify the imported WCM Content library is present

Example: WCMLib_1, WCMLib_2

6 Export - Source

6.1 Create Source XML File

1. Login to the WebSphere Portal source file system
2. Navigate to the bin directory of the WebSphere Portal home

```
<WP_HOME>/bin
```

Example:

WIN `E:\IBM\WebSphere\PortalServer\bin`

UNIX `/opt/IBM/WebSphere/PortalServer/bin`

3. Run the following xmlaccess command on one line to do a full export of the source environment

```
xmlaccess.(bat/sh) -in <WP_HOME>/doc/xml-samples/ExportRelease.xml -  
user <WPADMIN> -password <WPPWD> -url  
http://<HOSTNAME>:<PORT>/wps/config -out <EXPORT_FILE>
```

Example: WINDOWS

```
xmlaccess.bat -in E:\IBM\WebSphere\PortalServer\doc\xml-  
samples\ExportRelease.xml -user wpadmin -password passw0rd -url  
http://localhost:10039/wps/config -out E:\tmp\EXPORT_src.xml
```

Example: UNIX

```
xmlaccess.sh -in /opt/IBM/WebSphere/PortalServer/doc/xml-  
samples/ExportRelease.xml -user wpadmin -password passw0rd -url  
http://localhost:10039/wps/config -out /tmp/EXPORT_src.xml
```

6.2 Compress Archive

1. Login to the WebSphere Portal source file system
2. Compress the WebSphere Portal archive directory.

```
<WP_PROFILE>/PortalServer/deployed/archive
```

Examples:

WIN `E:\IBM\WebSphere\wp_profile\PortalServer\deployed\archive`

UNIX `/opt/IBM/WebSphere/wp_profile/PortalServer/deployed/archive`

Result:

WIN `WP_Archive_src.zip`

UNIX `WP_Archive_src.tar`

6.3 Copy Files - SOURCE to TARGET

1. Login to the WebSphere Portal source file system
2. Copy the Export file and compressed archive directory to the target environment
 - EXPORT_src.xml
 - WP_Archive_src.(zip/tar)

Example: WINDOWS - TO

```
F:\tmp\EXPORT_src.xml  
F:\tmp\WP_Archive_src.zip
```

Example: UNIX – TO

```
/tmp/EXPORT_src.xml  
/tmp/WP_Archive_src.zip
```

7 Import - Target

7.1 Empty-Portal

1. Login to the WebSphere Portal target file system
2. Run the following ConfigEngine command on one line to remove the Portal pages, Portal references and uninstall of Portal portlets

```
<WP_PROFILE>/ConfigEngine/ConfigEngine.(bat/sh) empty-portal -  
DWasPassword=<WAS_PWD>
```

Example: WINDOWS

```
E:\IBM\WebSphere\wp_profile\ConfigEngine.bat empty-portal -  
DWasPassword=passw0rd
```

Example: UNIX

```
/opt/IBM/WebSphere/wp_profile/ConfigEngine.sh empty-portal -  
DWasPassword=passw0rd
```

NOTE: This will empty out the WebSphere Portal archive directory when complete

```
<WP_PROFILE>/PortalServer/deployed/archive/
```

Example:

WIN `E:\IBM\WebSphere\wp_profile\PortalServer\deployed\archive`

UNIX `/opt/IBM/WebSphere/wp_profile/PortalServer/deployed/archive`

7.2 Archive Directory

1. Login to the WebSphere Portal target file system
2. Extract the archive media from the source environment to the **archive** directory of the target environment

Results:

```
<WP_PROFILE>/PortalServer/deployed/archive/...
```

Example:

WIN `E:\IBM\WebSphere\wp_profile\PortalServer\deployed\archive\...`

UNIX `/opt/IBM/WebSphere/wp_profile/PortalServer/deployed/archive/...`

7.3 Update Import XML

If the users/groups in the source environment is different then the users/groups in the target environment this section should be completed. If it is not, warnings will occur during the import

1. Login to the WebSphere Portal target file system

2. Open the source export file with an editor

Example:

WIN F:\tmp\EXPORT_src.xml

UNIX /tmp/EXPORT_src.xml

3. Replace all WebSphere Portal source user/groups with the WebSphere Portal target users/groups

Example:

```
<role actionset="Administrator" update="set">
  <mapping subjectid="uid=wpadmin,o=defaultwimfilebasedrealm"
subjecttype="user" update="set"/>
  <mapping subjectid="cn=wpsadmins,o=defaultwimfilebasedrealm"
subjecttype="user_group" update="set"/>
</role>
```

4. Save EXPORT_src.xml

7.4 Import XML

1. Login to the WebSphere Portal target file system
2. Navigate to the bin directory of the WebSphere Portal home

```
<WP_HOME>/bin
```

Example:

WIN E:\IBM\WebSphere\PortalServer\bin

UNIX /opt/IBM/WebSphere/PortalServer/bin

3. Run the following xmlaccess command on one line to do a full export release

```
xmlaccess.(bat/sh) -in EXPORT_src.xml -user <WPADMIN> -password <WPPWD>
-url http://<HOSTNAME>:<PORT>/wps/config -out <EXPORT_FILE>
```

Example: WINDOWS

```
xmlaccess.bat -in EXPORT_src.xml -user wpadmin -password passw0rd -url
http://localhost:10039/wps/config -out E:\tmp\EXPORT_src.log
```

Example: UNIX

```
xmlaccess.sh -in EXPORT_src.xml -user wpadmin -password passw0rd -url
http://localhost:10039/wps/config -out /tmp/EXPORT_src.log
```

7.5 Activate Portlets

This is only required when the target environment is a cluster

1. Login to the WebSphere Portal target file system

2. Run the following ConfigEngine command on one line to activate all portlets

```
<WP_PROFILE>/ConfigEngine/ConfigEngine.(bat/sh) activate-portlets -  
DPortalAdminPwd=<WP_PWD> -DWasPassword=<WAS_PWD>
```

Example: WINDOWS

```
E:\IBM\WebSphere\wp_profile\ConfigEngine.bat activate-portlets -  
DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

Example: UNIX

```
/opt/IBM/WebSphere/wp_profile/ConfigEngine.sh activate-portlets -  
DPortalAdminPwd=passw0rd -DWasPassword=passw0rd
```

8 WCM Authoring Update - Target

<https://developer.ibm.com/answers/questions/209365/error-using-wcm-authoring-portlet-iwkap0009e-srvl.html>

When using the WCM Authoring an error message is received on the browser
IWKAP0009E: Servlet Not Enabled. When searching the SystemOut.log the following message was present

```
WebCollaborat A SECJ0129E:  
Authorization failed for user <USER> while invoking GET on  
default_host:  
/portal/PA WCM Authoring UI/AuthoringUIServlet/menu/blah/folders: 1,  
Authorization failed, Not granted any of the required roles: All Role
```

1. Login to the WebSphere Portal file system
2. Navigate to the ConfigEngine directory of the WebSphere_Portal profile

```
<WP_PROFILE>/ConfigEngine
```

Example:

```
WIN E:\IBM\WebSphere\wp_profile\ConfigEngine  
UNIX /opt/IBM/WebSphere/wp_profile/ConfigEngine
```

3. Run the following ConfigEngine commands to correct the error

```
ConfigEngine.(bat/sh) install-wcm-hidden-authoring-page  
ConfigEngine.(bat/sh) action-set-wcm-authoring-permissions
```

4. Verify a Build Successful for each command.