

WebSphere Portal 8.5

Installation - ConsoleMode

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1 Information

This document will help with a standalone installation of WebSphere Portal 8.5 that does not require a graphical user interface from the operating system. The Installation Manager, WebSphere Application Server and IBM JDK will be installed with a command line. The WebSphere Portal Server will be installed using the console mode of the Installation Manager.

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>
- Recommended Updates for WebSphere Portal and IBM Web Content management V8.5
<http://www-01.ibm.com/support/docview.wss?uid=swg24037802>
- 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
- Installation Manager Documentation
http://www-01.ibm.com/support/knowledgecenter/#!/SSDV2W_1.7.0/com.ibm.cic.agent.ui.doc/helpindex_imic.html

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Name	Date	Version	Description
Loc Dang	10/21/16	V1	WebSphere Portal 8.5 Installation with Console Mode

1.1 Media

1.2 WebSphere Portal Server

1. Download the following media files from Passport advantage. Save the files to a temporary media location <MEDIA>

MEDIA = _____

Example:

```
WIN      F:\Media
UNIX     /opt/tmp/Media
```

Media	File Name	Description
CIYW0ML	WSA_Server_NetDeplo_8.5.5.2.zip	IBM WebSphere Application Server Network Deployment V8.5.5.2 Multiplatform Multilingual
CIYW1ML	WS_SDK_JAVA_TECH_7.0.6.1.zip	IBM WebSphere SDK Java Technology Edition V7.0.6.1 Multiplatform Multilingual
CIYV8ML	WSP_Server_8.5_Setup.zip	IBM WebSphere Portal Server Setup V8.5 Multiplatform Multilingual
CIYV9ML	WSP_Server_8.5_Install.zip	IBM WebSphere Portal Server Install V8.5 Multiplatform Multilingual

2. Extract all files to the same directory <WPS85>

WPS85 = _____

Example:

```
<WPS85>/IBMJAVA7/...
<WPS85>/SETUP/...
<WPS85>/WAS8552/...
<WPS85>/WP85_Server/...
```

1.3 WebSphere Portal Enable

1. Download the following media files from Passport advantage. Save the files to a temporary media location <MEDIA>

MEDIA = _____

Example:

```
WIN      F:\Media
UNIX     /opt/tmp/Media
```

Media	File Name	Description
CIYW0ML	WSA_Server_NetDeplo_8.5.5.2.zip	IBM WebSphere Application Server Network Deployment V8.5.5.2 Multiplatform Multilingual
CIYW1ML	WS_SDK_JAVA_TECH_7.0.6.1.zip	IBM WebSphere SDK Java Technology Edition V7.0.6.1 Multiplatform Multilingual
CIYW3ML	WSP_Enable_8.5_Setup.zip	IBM WebSphere Portal Enable Setup V8.5 Multiplatform Multilingual
CIYV9ML	WSP_Server_8.5_Install.zip	IBM WebSphere Portal Server Install V8.5 Multiplatform Multilingual
CIYW4ML	WSP_Enable_8.5_Install.zip	IBM WebSphere Portal Enable Install V8.5 Multiplatform Multilingual

2. Extract all files to the same directory <WPS85>

WPS85 = _____

Example:

```
<WPS85>/IBMJAVA7/...
<WPS85>/SETUP/...
<WPS85>/WAS8552/...
<WPS85>/WP85_Enable/...
<WPS85>/WP85_Server/...
```

1.4 WebSphere Portal Extend

1. Download the following media files from Passport advantage. Save the files to a temporary media location <MEDIA>

MEDIA = _____

Example:

```
WIN      F:\Media
UNIX     /opt/tmp/Media
```

Media	File Name	Description
-------	-----------	-------------

CIYW0ML	WSA_Server_NetDeplo_8.5.5.2.zip	IBM WebSphere Application Server Network Deployment V8.5.5.2 Multiplatform Multilingual
CIYW1ML	WS_SDK_JAVA_TECH_7.0.6.1.zip	IBM WebSphere SDK Java Technology Edition V7.0.6.1 Multiplatform Multilingual
CIZ5TML	WSP_EXTEND_8.5_SETUP.zip	IBM WebSphere Portal Extend Setup V8.5 Multiplatform Multilingual
CIYV9ML	WSP_Server_8.5_Install.zip	IBM WebSphere Portal Server Install V8.5 Multiplatform Multilingual
CIZ5UML	WSP_Extend_8.5_Install.zip	IBM WebSphere Portal Extend Install V8.5 Multiplatform Multilingual

2. Extract all files to the same directory <WPS85>

WPS85 = _____

Example:

```
<WPS85>/IBMJAVA7/...
<WPS85>/SETUP/...
<WPS85>/WAS8552/...
<WPS85>/WP85_Extend/...
<WPS85>/WP85_Server/...
```

1.5 Web Content Management

1. Download the following media files from Passport advantage. Save the files to a temporary media location <MEDIA>

MEDIA = _____

Example:

```
WIN      F:\Media
UNIX     /opt/tmp/Media
```

Media	File Name	Description
CIYW0ML	WSA_Server_NetDeplo_8.5.5.2.zip	IBM WebSphere Application Server Network Deployment V8.5.5.2 Multiplatform Multilingual
CIYW1ML	WS_SDK_JAVA_TECH_7.0.6.1.zip	IBM WebSphere SDK Java Technology Edition V7.0.6.1

		Multiplatform Multilingual
CIZ5PML	WCM_8.5_SETUP.zip	IBM Web Content Manager Setup V8.5 Multiplatform Multilingual
CIYV9ML	WSP_Server_8.5_Install.zip	IBM WebSphere Portal Server Install V8.5 Multiplatform Multilingual
CIZ5QML	WCM_8.5_Install.zip	IBM Web Content Manager Install V8.5 Multiplatform Multilingual

2. Extract all files to the same directory <WPS85>

WPS85 = _____

Example:

```
<WPS85>/IBMJAVA7/...
<WPS85>/SETUP/...
<WPS85>/WAS8552/...
<WPS85>/WP85_WCM/...
<WPS85>/WP85_Server/...
```

1.6 Web Content Management Standard Edition

1. Download the following media files from Passport advantage. Save the files to a temporary media location <MEDIA>

MEDIA = _____

Example:

```
WIN      F:\Media
UNIX     /opt/tmp/Media
```

Media	File Name	Description
CIYW0ML	WSA_Server_NetDeplo_8.5.5.2.zip	IBM WebSphere Application Server Network Deployment V8.5.5.2 Multiplatform Multilingual
CIYW1ML	WS_SDK_JAVA_TECH_7.0.6.1.zip	IBM WebSphere SDK Java Technology Edition V7.0.6.1 Multiplatform Multilingual
CIZ5RML	WCM_SE_8.5_SETUP.zip	IBM Web Content Manager Standard Edition Setup V8.5 Multiplatform Multilingual
CIYV9ML	WSP_Server_8.5_Install.zip	IBM WebSphere Portal Server Install V8.5 Multiplatform Multilingual

CN06LML	IBM_WEB_CONTENT_MANAGER _STANDARD_.zip	IBM Web Content Manager Standard Edition Install V8.5 Multiplatform Multilingual
---------	---	--

2. Extract all files to the same directory <WPS85>

WPS85 = _____

Example:

```
<WPS85>/IBMJAVA7/...
<WPS85>/SETUP/...
<WPS85>/WAS8552/...
<WPS85>/WP85_WCMSE/...
<WPS85>/WP85_Server/...
```


2 Preparing

2.1 Common

The following are common prerequisites for all operating systems

1. Pinging the hostname. If ping is not configured on the system, decide if the risk is acceptable.

```
ping <HOSTNAME>
```

Example:

```
ping WPS85-64.ibm.com
```

2. Ping localhost. If ping is not configured on the system, decide if the risk is acceptable

```
ping localhost
```

3. A warning may display during installation if the following programs are running
Firewall, antivirus, screen saver or desktop search engine

2.2 Windows

There may be some extra pre-requisites that need to be done for a Windows operating system. Review the link below

http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/prep_os-Windows.dita

1. Verify the user that will do the installation is part of the Windows local Administrators group

2.3 Linux

There may be some extra pre-requisites that need to be done for a Linux operating system. Review the link below

http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/prep_os-Linux.dita

1. Set the file descriptor limit to at least 10240 for the user installing and running WebSphere Portal Server.

```
ulimit -n 10240
```

2. When using Web Content Management, set the file size limit to the largest file in WCM. To be safe setting it to unlimited

```
ulimit -f unlimited
```

3. If you are using IBM GPFS file sharing, set file system inodes limit to at least 25000.

```
mmchfs <PORTAL_FILESYSTEM> -F 25000
```

Example:

```
mmchfs /dev/gpfs1nsd -F 25000
```

2.4 AIX

There may be some extra pre-requisites that need to be done for an AIX operating system. Review the link below

http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/prep_os-AIX.dita

1. Set the file descriptor limit to at least 10240 for the user installing and running WebSphere Portal Server.

```
ulimit -n 10240
```

2. When using Web Content Management, set the file size limit to the largest file in WCM. To be safe setting it to unlimited

```
ulimit -f unlimited
```

3. If you are using IBM GPFS file sharing, set file system inodes limit to at least 25000.

```
mmchfs <PORTAL_FILESYSTEM> -F 25000
```

Example:

```
mmchfs /dev/gpfs1nsd -F 25000
```

4. If your using AIX 7.1, verify the following link has been completed
<http://www-01.ibm.com/support/docview.wss?uid=swg21631478>
5. Increase paging space from 1024MB to 8192MB
6. If using the Work Load Partition (WPAR) on AIX, review the “AIX: Preparing your operating system”
http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/prep_os-AIX.dita

2.5 Solaris

There may be some extra pre-requisites that need to be done for a Solaris operating system. Review the link below

http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/prep_os-Solaris.dita

1. When using Web Content Management, set the file size limit to the largest file in WCM. To be safe setting it to unlimited

```
ulimit -f unlimited
```

2. When setting up a non-global zone, do not inherit package directories. Stop all WebSphere Portal and related process before starting and stopping.
3. Review the **/etc/system**. Set the `process.max-file-descriptor` to 1024 if it is lower. Restart the Operating system if changes were made.
 - a. Type the `cat /etc/project` command to review the configuration
 - b. Set `process.max-file-descriptor` to 1024

3 Detailed System Requirements

Before installing WebSphere Portal, verify that the environment meets the requirements

<http://www-01.ibm.com/support/docview.wss?uid=swg27007791>

The link will cover the supported Operating System, Database, LDAP and many more.

4 IBM Installation Manager

To install WebSphere Application Server or WebSphere Portal Server, IBM Installation Manager is required. IBM Installation Manager can either be pre-installed or installed using the media files of WebSphere Portal. Review the WebSphere Portal Detailed System Requirement link for supported versions. If the IBM Installation Manager is pre-installed, this section can be skipped.

1. Change to the IIM directory of the extracted media directory

```
cd <WPS85>/SETUP/IIM/<OS>/
```

Example:

WIN32	cd F:/Media/WPS85/SETUP/IIM/Win32/
WIN64	cd F:/Media/WPS85/SETUP/IIM/Win64/
LINUX32	cd /opt/tmp/Media/WPS85/SETUP/IIM/linux_x86/
LINUX64	cd /opt/tmp/Media/WPS85/SETUP/IIM/linux_x86_64/
AIX	cd /opt/tmp/Media/WPS85/SETUP/IIM/aix/
SUN_SPARC	cd /opt/tmp/Media/WPS85/SETUP/IIM/solaris_sparc/

2. Run the following command to install IBM Installation Manager

- o Non-Administrator on Windows

```
userinstc.exe  
-installationDirectory <IIM_ECLIPSE_DIR>  
-log <LOGLOCATION and LOGFILE>  
-acceptLicense
```

Example:

```
userinstc.exe  
-installationDirectory E:\IBM\InstallationManager\eclipse  
-log F:\temp\IIM_Install.log  
-acceptLicense
```

- o Non-root on Unix/Linux

```
./userinstc  
-installationDirectory <IIM_ECLIPSE_DIR>  
-log <LOGLOCATION and LOGFILE>  
-acceptLicense
```

Example:

```
./userinstc  
-installationDirectory /opt/IBM/InstallationManager/eclipse  
-log /opt/tmp/IIM_Install.log  
-acceptLicense
```

- o Administrator on Windows

```
installc.exe  
-installationDirectory <IIM_ECLIPSE_DIR>  
-log <LOGLOCATION and LOGFILE>  
-acceptLicense
```

Example:

```
installc.exe  
-installationDirectory E:\IBM\InstallationManager\eclipse  
-log F:\temp\IIM_Install.log  
-acceptLicense
```

○ **Root on Unix/Linux**

```
./installc  
-installationDirectory <IIM_ECLIPSE_DIR>  
-log <LOGLOCATION and LOGFILE>  
-acceptLicense
```

Example:

```
./installc  
-installationDirectory /opt/IBM/InstallationManager/eclipse  
-log /opt/tmp/IIM_Install.log  
-acceptLicense
```

3. After the installation is complete, verify the Installed Message

Installed com.ibm.cic.agent_1.7.1000.20131119_2219 to the
<IIM_INSTALL_LOCATION> directory

Example Windows:

Installed com.ibm.cic.agent_1.7.1000.20131119_2219 to the
E:\IBM\InstallationManager\eclipse directory.

Example UNIX:

Installed com.ibm.cic.agent_1.7.1000.20131119_2219 to the
/opt/IBM/InstallationManager/eclipse directory.

5 WebSphere Application Server

The WebSphere Application Server must be installed either before or at the same time the WebSphere Portal Server is installed. Installing WebSphere Application Server using the IBM Installation Manager in console mode is not currently supported. It is possible to install WebSphere Application Server at the same time as WebSphere Portal Server when using a response file or the Graphical User Interface.

1. Change to the tools directory of the IBM Installation Manager

```
cd <IIM>/eclipse/tools/
```

Example:

```
WIN    cd E:/IBM/InstallationManager/eclipse/tools
UNIX   cd /opt/IBM/InstallationManager/eclipse/tools
```

2. Run the following command to install WebSphere Application Server

```
imcl install com.ibm.websphere.ND.v85 -repositories
<WPS85_MEDIA>/WAS8552/repository.config -installationDirectory
<WAS_HOME> -sharedResourcesDirectory <IMSHARED> -acceptLicense
```

Example Windows:

```
imcl install com.ibm.websphere.ND.v85 -repositories
F:\temp\Media\WPS85\WAS8552\repository.config -installationDirectory
E:\IBM\WebSphere\AppServer -sharedResourcesDirectory E:\IBM\IMShared -
acceptLicense
```

Example UNIX:

```
./imcl install com.ibm.websphere.ND.v85 -repositories
/opt/tmp/Media/WPS85/WAS8552/repository.config -installationDirectory
/opt/IBM/WebSphere/AppServer -sharedResourcesDirectory
/opt/IBM/IMShared -acceptLicense
```

NOTE: Add -sP to the end of the command to display the progress of the installation.

```
                25%                50%                75%                100%
-----|-----|-----|-----|
.....
```

3. Validate the Installation results

```
Installed com.ibm.websphere.ND.v85_8.5.5002.20140408_1947 to the
<WAS_HOME> directory.
Installed 8.5.5.2-WS-WAS-IFPI15581_8.5.5002.20140411_1052 to the
<WAS_HOME> directory.
Installed 8.5.5.0-WS-WASProd-IFPI15756_8.5.5000.20140411_1012 to the
<WAS_HOME> directory.
```

Example Windows:

Installed com.ibm.websphere.ND.v85_8.5.5002.20140408_1947 to the
E:\IBM\WebSphere\AppServer directory.
Installed 8.5.5.2-WAS-WAS-IFPI15581_8.5.5002.20140411_1052 to the
E:\IBM\WebSphere\AppServer directory.
Installed 8.5.5.0-WAS-WASProd-IFPI15756_8.5.5000.20140411_1012 to the
E:\IBM\WebSphere\AppServer directory.

Example UNIX:

Installed com.ibm.websphere.ND.v85_8.5.5002.20140408_1947 to the
/opt/IBM/WebSphere/AppServer directory.
Installed 8.5.5.2-WAS-WAS-IFPI15581_8.5.5002.20140411_1052 to the
/opt/IBM/WebSphere/AppServer directory.
Installed 8.5.5.0-WAS-WASProd-IFPI15756_8.5.5000.20140411_1012 to the
/opt/IBM/WebSphere/AppServer directory.

6 IBM JDK

The IBM JDK 1.7 must be installed either before or at the same time the WebSphere Portal Server is installed. Use the following steps to install the required IBM JDK. If the required version is already installed, this section may be skipped.

1. Change to the tools directory of the IBM Installation Manager

```
cd <IIM>/eclipse/tools/
```

Example:

```
WIN    cd E:/IBM/InstallationManager/eclipse/tools
UNIX   cd /opt/IBM/InstallationManager/eclipse/tools
```

2. Run the following command to install the IBM JDK

```
imcl install com.ibm.websphere.IBMJAVA.v70 -repositories
<WPS85_MEDIA>/IBMJAVA7/repository.config -installationDirectory
<WAS_HOME> -sharedResourcesDirectory <IMSHARED> -acceptLicense
```

Example Windows:

```
imcl install com.ibm.websphere.IBMJAVA.v70 -repositories
F:\temp\Media\WPS85\IBMJAVA7\repository.config -installationDirectory
E:\IBM\WebSphere\AppServer -sharedResourcesDirectory E:\IBM\IMShared -
acceptLicense
```

Example UNIX:

```
./imcl install com.ibm.websphere.IBMJAVA.v70 -repositories
/opt/tmp/Media/WPS85/IBMJAVA7/repository.config -installationDirectory
/opt/IBM/WebSphere/AppServer -sharedResourcesDirectory
/opt/IBM/IMShared -acceptLicense
```

NOTE: Add `-sP` or `-showProgress` to the end of the command to display the progress of the installation.

```
                25%                50%                75%                100%
-----|-----|-----|-----|
.....
```

3. Validate the Installation message

```
Installed com.ibm.websphere.IBMJAVA.v70_7.0.6001.20140324_2202 to the
<WAS_HOME> directory.
```

Example Windows:

```
Installed com.ibm.websphere.IBMJAVA.v70_7.0.6001.20140324_2202 to the
E:\IBM\WebSphere\AppServer directory.
```

Example UNIX:

```
Installed com.ibm.websphere.IBMJAVA.v70_7.0.6001.20140324_2202 to the
/opt/IBM/WebSphere/AppServer directory.
```

7 WebSphere Portal Server

1. Change to the tools directory of the IBM Installation Manager

```
cd <IIM>/eclipse/tools/
```

Example:

```
WIN    cd E:/IBM/InstallationManager/eclipse/tools
UNIX   cd /opt/IBM/InstallationManager/eclipse/tools
```

2. Run the following command to start the WebSphere Portal installation in console mode

```
imcl -c
```

Example:

```
WIN    imcl -c
UNIX   ./imcl -c
```

```
=====> IBM Installation Manager

Select:
  1. Install - Install software packages
  2. Update - Find and install updates and fixes to installed
software packages
  3. Modify - Change installed software packages
  4. Roll Back - Revert to an earlier version of installed software
packages
  5. Uninstall - Remove installed software packages

Other Options:
  L. View Logs
  S. View Installation History
  V. View Installed Packages
  -----
  P. Preferences
  -----
  A. About IBM Installation Manager
  -----
  X. Exit Installation Manager

-----> P
```

3. Enter P to enter the “Preferences” option
4. Click Enter

```
=====> IBM Installation Manager> Preferences
```

```
Select:
```

```
1. Repositories
2. Appearance
3. Files for Rollback
4. SSL/TLS
5. HTTP/FTP Proxy
6. Passport Advantage
7. Updates

R. Return to Main Menu
-----> [1] 1
```

5. Enter 1 for “Repositories”
6. Click Enter

```
=====> IBM Installation Manager> Preferences> Repositories

Repositories:

Other Options:
  D. Add Repository

  S. [X] Search service repositories during installation and updates

  R. Restore Defaults
  A. Apply Changes and Return to Preferences Menu
  P. Temporarily Keep Changes and Return to Preferences Menu

-----> D
```

7. Enter D for “Add Repository”
8. Click Enter

```
=====> IBM Installation Manager> Preferences> Repositories> Add
repository

Enter a new repository location. To skip, press Enter:
-----> /opt/tmp/Media/WPS85/WP85_Server/repository.config
```

9. Enter the repository.config location for the Server entitlement of the WebSphere Portal Server

Example:

WIN	F:\tmp\Media\WPS85\WP85_Server\repository.config
UNIX	/opt/IBM/Media/WPS85/WP85_Server/repository.config

10. Click Enter

```
Checking repositories...

=====> IBM Installation Manager> Preferences> Repositories

Repositories:
  1. [X] /opt/tmp/Media/WPS85/WP85_Server/repository.config
```

Other Options:

D. Add Repository

S. [X] Search service repositories during installation and updates

R. Restore Defaults

A. Apply Changes and Return to Preferences Menu

P. Temporarily Keep Changes and Return to Preferences Menu

-----> **D**

11. Enter D for “Add Repository”

12. Click Enter

```
=====> IBM Installation Manager> Preferences> Repositories> Add
repository
```

Enter a new repository location. To skip, press Enter:

```
-----> /opt/tmp/Media/WPS85/WP85_Enable/repository.config
```

13. Enter the repository.config location for the entitlement of the WebSphere Portal Server you want to install

- Enable

```
=====> IBM Installation Manager> Preferences> Repositories> Add
repository
```

Enter a new repository location. To skip, press Enter:

```
-----> /opt/tmp/Media/WPS85/WP85_Enable/repository.config
```

- Extend

```
=====> IBM Installation Manager> Preferences> Repositories> Add
repository
```

Enter a new repository location. To skip, press Enter:

```
-----> /opt/tmp/Media/WPS85/WP85_Extend/repository.config
```

- Web Content Management

```
=====> IBM Installation Manager> Preferences> Repositories> Add
repository
```

Enter a new repository location. To skip, press Enter:

```
-----> /opt/tmp/Media/WPS85/WP85_WCM/repository.config
```

- Web Content Management Standard Edition

```
=====> IBM Installation Manager> Preferences> Repositories> Add
repository
```

Enter a new repository location. To skip, press Enter:

```
-----> /opt/tmp/Media/WPS85/WP85_WCMSE/repository.config
```

14. Click Enter

Checking repositories...

=====> IBM Installation Manager> Preferences> Repositories

Repositories:

1. [X] /opt/tmp/Media/WPS85/WP85_Server/repository.config
2. [X] /opt/tmp/Media/WPS85/WP85_Enable/repository.config

Other Options:

- D. Add Repository
- S. [X] Search service repositories during installation and updates
- R. Restore Defaults
- A. Apply Changes and Return to Preferences Menu
- P. Temporarily Keep Changes and Return to Preferences Menu

-----> **A**

15. Enter A for “Apply Changes and Return to the Preferences Menu”

16. Click Enter

=====> IBM Installation Manager> Preferences

Select:

1. Repositories
2. Appearance
3. Files for Rollback
4. SSL/TLS
5. HTTP/FTP Proxy
6. Passport Advantage
7. Updates

R. Return to Main Menu

-----> [1] **R**

17. Enter R for “Return to Main Menu”

18. Click Enter

=====> IBM Installation Manager

Select:

1. Install - Install software packages
2. Update - Find and install updates and fixes to installed software packages
3. Modify - Change installed software packages
4. Roll Back - Revert to an earlier version of installed software packages
5. Uninstall - Remove installed software packages

Other Options:

- L. View Logs
 - S. View Installation History
 - V. View Installed Packages
-

```
P. Preferences
-----
A. About IBM Installation Manager
-----
X. Exit Installation Manager

-----> 1
```

19. Enter 1 for “Install – Install software packages”

20. Click Enter

```
Checking repositories...
Loading repositories...
Checking availability of packages...
Validating package prerequisites...

=====> IBM Installation Manager> Install

Select packages to install:
  1. [ ] IBM WebSphere Portal Server 8.5.0.0
  2. [ ] IBM WebSphere Portal Enable 8.5.0.0

  O. Check for Other Versions, Fixes, and Extensions

  C. Cancel
-----> [C] 1
```

NOTE: Option 2 package could be different depending on the entitlement being installed

- IBM WebSphere Portal Enable 8.5.0.0
- IBM WebSphere Portal Extend 8.5.0.0
- IBM Web Content Management 8.5.0.0
- IBM Web Content Management Standard Edition

21. Enter 1 for “IBM WebSphere Portal Server 8.5.0.0”

22. Click Enter

```
=====> IBM Installation Manager> Install> Select

IBM WebSphere Portal Server 8.5.0.0

Options:
  1. Choose version 8.5.0.0 for installation.
  2. Show all available versions of the package.

  C. Cancel
-----> [1] 1
```

23. Enter 1 for “Choose version 8.5.0.0 for installation.”

24. Click Enter

```
Preparing and resolving the selected packages...
```

```

=====> IBM Installation Manager> Install

Select packages to install:
  1. [X] IBM WebSphere Portal Server 8.5.0.0
  2. [ ] IBM WebSphere Portal Enable 8.5.0.0

  O. Check for Other Versions, Fixes, and Extensions

  N. Next,          C. Cancel
-----> [N] 2

```

NOTE: Option 2 package could be different depending on the entitlement being installed

25. Enter 2 for the entitlement being installed

- IBM WebSphere Portal Enable 8.5.0.0
- IBM WebSphere Portal Extend 8.5.0.0
- IBM Web Content Management 8.5.0.0
- IBM Web Content Management Standard Edition

26. Click Enter

```

=====> IBM Installation Manager> Install> Select

IBM WebSphere Portal Enable 8.5.0.0

Options:
  1. Choose version 8.5.0.0 for installation.
  2. Show all available versions of the package.

  C. Cancel
-----> [1] 1

```

NOTE: The title could be different depending on the entitlement being installed

- IBM WebSphere Portal Enable 8.5.0.0
- IBM WebSphere Portal Extend 8.5.0.0
- IBM Web Content Management 8.5.0.0
- IBM Web Content Management Standard Edition

27. Enter 1 for “Choose version 8.5.0.0 for installation.”

28. Click Enter

```

Preparing and resolving the selected packages...

=====> IBM Installation Manager> Install

Select packages to install:
  1. [X] IBM WebSphere Portal Server 8.5.0.0
  2. [X] IBM WebSphere Portal Enable 8.5.0.0

```

```
O. Check for Other Versions, Fixes, and Extensions

N. Next,          C. Cancel
-----> [N] N
```

NOTE: Option 2 package could be different depending on the entitlement being installed

- IBM WebSphere Portal Enable 8.5.0.0
- IBM WebSphere Portal Extend 8.5.0.0
- IBM Web Content Management 8.5.0.0
- IBM Web Content Management Standard Edition

29. Enter N for “Next”

30. Click Enter

```
=====> IBM Installation Manager> Install> Licenses

Read the following license agreements carefully.
View a license agreement by entering the number:
  1. IBM WebSphere Portal Enable
  2. IBM WebSphere Portal Server

Options:
  A. [ ] I accept the terms in the license agreements
  D. [ ] I do not accept the terms in the license agreements

      B. Back,          C. Cancel
-----> [C] A
```

31. Enter A for “I accept the terms in the license agreements”

32. Click Enter

```
=====> IBM Installation Manager> Install> Licenses

Read the following license agreements carefully.
View a license agreement by entering the number:
  1. IBM WebSphere Portal Enable
  2. IBM WebSphere Portal Server

Options:
  A. [X] I accept the terms in the license agreements
  D. [ ] I do not accept the terms in the license agreements

      B. Back,          N. Next,          C. Cancel
-----> [N] N
```

33. Enter N for “Next”

34. Click Enter

```
Finding compatible package groups...

=====> IBM Installation Manager> Install> Licenses> Location

New package group:
```



```

        IBM WebSphere Portal Server V8.5

Incompatible existing package groups:
    1. IBM WebSphere Application Server V8.5

Selected group id: "IBM WebSphere Portal Server V8.5"
Selected location: "/home/wasuser/IBM/WebSphere/PortalServer"
Selected architecture: 64-bit

Options:
    M. Change Location

    B. Back,          N. Next,          C. Cancel
-----> [N] M

```

35. Enter M for “Change Location”

36. Click Enter

```

=====> IBM Installation Manager> Install> Licenses> Location>
    Enter installation location

Enter a new installation location. To skip, press Enter:
-----> /opt/IBM/WebSphere/PortalServer

```

37. Enter the location of where to install WebSphere Portal

WP_HOME = _____

Example:

WIN	E:\IBM\WebSphere\PortalServer
UNIX	/opt/IBM/WebSphere/PortalServer

38. Click Enter

```

=====> IBM Installation Manager> Install> Licenses> Location

New package group:
    IBM WebSphere Portal Server V8.5

Incompatible existing package groups:
    1. IBM WebSphere Application Server V8.5

Selected group id: "IBM WebSphere Portal Server V8.5"
Selected location: "/opt/IBM/WebSphere/PortalServer"
Selected architecture: 64-bit

Options:
    M. Change Location

    B. Back,          N. Next,          C. Cancel
-----> [N] N

```

39. Verify the “Selected location” is correct

40. Enter N for “Next”

41. Click Enter

```
=====> IBM Installation Manager> Install> Licenses> Location> Features
IBM WebSphere Portal Server
  1. [X] Portal Server Profile
IBM WebSphere Portal Enable
      B. Back,      N. Next,      C. Cancel
-----> [N] N
```

42. Enter N for “Next”

43. Click Enter

```
=====> IBM Installation Manager> Install> Licenses> Location> Features>
Custom panels

---- Configuration for IBM WebSphere Portal Server 8.5.0.0

---- WebSphere Application Server root directory selection

Select WebSphere Application Server root directory:
  1. [ ] /opt/IBM/WebSphere/AppServer
-----> 1
```

44. Enter 1 to select the location of the WebSphere Application Server

45. Click Enter

```
---- Enter the Administrator user ID and password for the Configuration
Wizard.
---- This ID is used only to log in to the Configuration Wizard and can
be different from the Portal administrative ID.

Enter an administrator user ID for the Configuration Wizard:
-----> cadmin
```

46. Enter the username for the Configuration Wizard Administrator

47. Click Enter

```
Enter an administrator user password for the Configuration Wizard:
----->
```

48. Enter the password for the Configuration Wizard Administrator

49. Click Enter

```
Confirm administrator user password for the Configuration Wizard:
----->
```

50. Enter the password again for the Configuration Wizard Administrator

51. Click Enter

```
---- Enter the details for configuring the portal profile
```

```
---- Topology
```

```
Enter the host name [example: wps85-64.ibm.com]:
```

```
-----> [wps85-64.ibm.com] wps85-64.ibm.com
```

52. If the default is not correct, enter the name of the WebSphere Portal server hostname

WP_HOSTNAME = _____

Example: `wps85-64.ibm.com`

53. Click Enter

```
Enter the node name [example: wps85-64Node]:
```

```
-----> [wps85-64Node] wpNode01
```

54. If the default is not acceptable, enter the node name for the WebSphere Portal Server. If the WebSphere Portal will be added to a cluster, the node name can not match any of the node name in the Deployment Manager.

WP_NODE = _____

Example: `wpNode01`

55. Click Enter

```
Enter the cell name [example: wps85-64Cell]:
```

```
-----> [wps85-64Cell] wpCell101
```

56. If the default is not acceptable, enter the cell name for the WebSphere Portal Server. If the WebSphere Portal will be added to a cluster, the cell name can not match the cell name of the Deployment Manager

WP_CELL = _____

Example: `wpCell101`

57. Click Enter

```
---- Admin Credentials for Portal Server
```

```
---- Enter the user ID and the password of the WebSphere Application  
Server and Portal Server administrator.
```

```
Enter an administrator user ID for the portal server [example:
cwadmin]:
-----> [cwadmin] wpadmin
```

58. Enter the User ID of the WebSphere Application Server and Portal Server administrator

WPADMIN = _____

Example: **wpadmin**

NOTE: If the WebSphere Portal will be integrated with an LDAP, do not enter a user name that will match a user in the LDAP.

59. Click Enter

```
Enter an administrator user password for the portal server:
----->
```

60. Enter the password for the WebSphere Application Server and Portal Server administrator.

WPPWD = _____

61. Click Enter

```
Confirm administrator user password for the portal server:
----->
```

62. Enter the password again for the WebSphere Application Server and Portal Server administrator.

63. Click Enter

```
You can configure advanced parameters or accept defaults.
These include customized URI settings, profile name, and port numbers.
Do you want to specify advanced parameters? [Y,N]
-----> [N] Y
```

64. Enter Y if you want to customize the URI settings, profile name, or port numbers. Enter N if you do not need to customize the URI settings, profile name or port numbers. In the example, Y was used.

```
---- URI

Enter the context root [example: wps]:
-----> [wps] wps
```

65. If the default is not acceptable, enter the preferred context root

WP_CONTEXTROOT = _____

Example: wps

66. Click Enter

```
Enter the default home [example: portal]:  
-----> [portal] portal
```

67. If the default is not acceptable, enter the preferred default home

WP_DEFAULTHOME = _____

Example: portal

68. Click Enter

```
Enter the personalized home [example: myportal]:  
-----> [myportal] myportal
```

69. If the personalized home is not acceptable, enter the preferred personalized home

WP_PERSONALIZEDHOME = _____

Example: myportal

70. Click Enter

```
---- Profile  
  
Enter the profile name [example: wp_profile]:  
-----> [wp_profile] wp_profile
```

71. If the profile name is not acceptable, enter the preferred profile name

WP_PROFILENAME = _____

Example: wp_profile

72. Click Enter

```
Enter the starting port number [example: 10012]:  
-----> [10012] 10012
```

73. If the Portal starting port number is not acceptable, enter the preferred starting port number

WP_STARTPORT = _____

Example: 10012

74. Click Enter

```
Enter the profile path [example: /opt/IBM/WebSphere/wp_profile]:  
-----> [/opt/IBM/WebSphere/wp_profile] /opt/IBM/WebSphere/wp_profile
```

75. If the profile path is not acceptable, enter the preferred default path for the WebSphere Portal Profile

WP_PROFILE = _____

Example:

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

76. Click Enter

```
      B. Back,      N. Next,      C. Cancel  
-----> [N] N
```

77. Enter N for “Next”

78. Click Enter

```
=====> IBM Installation Manager> Install> Licenses> Location> Features>  
Custom panels> Summary  
  
Target Location:  
Package Group Name      : IBM WebSphere Portal Server V8.5  
Installation Directory  : /opt/IBM/WebSphere/PortalServer  
Shared Resources Directory : /opt/IBM/IMShared  
  
Translations:  
    English  
  
Packages to be installed:  
    IBM WebSphere Portal Server 8.5.0.0  
    IBM WebSphere Portal Enable 8.5.0.0  
  
Options:  
    G. Generate an Installation Response File  
  
      B. Back,      I. Install,      C. Cancel  
-----> [I] G
```

79. Verify the information is correct. If it is not, enter B for “Back” and correct the mistake.

80. Enter G for “Generate an Installation Response File” if a response file is needed for future installation

81. Click Enter

```
=====> IBM Installation Manager> Install> Licenses> Location> Features>
Custom panels> Summary> Save response file

Enter a directory path and a file name to generate the response file.
Use .xml as the file extension. If a file name is specified without a
full directory path, the response file is saved to
/opt/IBM/InstallationManager/eclipse/tools. To skip the generation of a
response file, press Enter.
-----> /opt/tmp/WPS85_Install.rsp
```

82. Enter the name and directory of where to store the WebSphere Portal Server response file

RESPONSEFILE = _____

Example:


WIN	F:\temp\WPS85_Install.rsp
UNIX	/opt/tmp/WPS85_Install.rsp

83. Click Enter

```
=====> IBM Installation Manager> Install> Licenses> Location> Features>
Custom panels> Summary> Save response file> Status

OK STATUS: Response file was generated successfully:
/opt/tmp/WPS85_Install.rsp

O. OK

-----> [O] 
```

84. Enter O for “OK”

85. Click Enter

```
=====> IBM Installation Manager> Install> Licenses> Location> Features>
Custom panels> Summary

Target Location:
Package Group Name      : IBM WebSphere Portal Server V8.5
Installation Directory  : /opt/IBM/WebSphere/PortalServer
Shared Resources Directory : /opt/IBM/IMShared

Translations:
    English

Packages to be installed:
    IBM WebSphere Portal Server 8.5.0.0
    IBM WebSphere Portal Enable 8.5.0.0

Options:
    G. Generate an Installation Response File
```

```
      B. Back,      I. Install,      C. Cancel
-----> [I] I
```

86. The following information should of already been reviewed before generating an installation response file. Enter one of the following options.

- I for “Install” if you want to install now
- C for “Cancel” if you want to install later with a response file

NOTE: In this example “I” was selected and will continue with the installation

87. Click Enter

```
                25%                50%                75%                100%
-----|-----|-----|-----|
.....<DATE> <TIME>
PM com.ibm.wps.workflow.WorkflowManager enableWorkflowExecution
INFO: I: Workflow execution is enabled.
.....

=====> IBM Installation Manager> Install> Licenses> Location> Features>
      Custom panels> Summary> Completion

The install completed successfully.

INFORMATION: IBM WebSphere Portal Server V8.5 installation is complete.
You can now access your Portal at: http://<HOSTNAME>:10039/wps/portal

Options:
      F. Finish
-----> [F] F
```

88. Enter F for “Finish”

89. Click Enter

```
=====> IBM Installation Manager

Select:
  1. Install - Install software packages
  2. Update - Find and install updates and fixes to installed
software packages
  3. Modify - Change installed software packages
  4. Roll Back - Revert to an earlier version of installed software
packages
  5. Uninstall - Remove installed software packages

Other Options:
  L. View Logs
  S. View Installation History
  V. View Installed Packages
  -----
  P. Preferences
  -----
  A. About IBM Installation Manager
```



```
-----  
X. Exit Installation Manager  
-----> X
```

90. Click X for “Exit Installation Manager”

91. Click Enter

8 Ports

http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/inst_next_steps-Windows.dita

8.1 WebSphere Portal

1. Login to the WebSphere Portal file system

2. Change to the ConfigEngine directory

```
cd <WP_PROFILE>/ConfigEngine
```

Example:

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

3. Run the following command to create a file that list the ports for the WebSphere Portal server (WebSphere_Portal_PortMatrix.txt)

```
WIN    ConfigEngine.bat list-server-ports -DWasPassword=<WASPWD>
UNIX   ./ConfigEngine.sh list-server-ports -DWasPassword=<WASPWD>
```

4. Change to the log directory of the ConfigEngine

```
cd <WP_PROFILE>/ConfigEngine/log
```

Example:

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

5. Open the **WebSphere_Portal_PortMatrix.txt** with a viewer

Example of **WebSphere_Portal_PortMatrix.txt**:

```
Ports for WebSphere_Portal :
WC_defaulthost=10039
WC_adminhost=10038
WC_defaulthost_secure=10042
WC_adminhost_secure=10041
BOOTSTRAP_ADDRESS=10032
SOAP_CONNECTOR_ADDRESS=10033
```

6. Write down the WC_defaulthost. This port will be used with the WebSphere Portal URL

WC_defaulthost = _____

Example: WC_defaulthost=10039

7. Write down the WC_adminhost and WC_adminhost_secure. This port will be used for the WebSphere Application Administration Console

WC_adminhost: _____

WC_adminhost_secure: _____

Example:

```
WC_adminhost=10038
WC_adminhost_secure=10042
```

8.2 Configuration Wizard

1. Login to the WebSphere Portal file system
2. Change to the ConfigEngine directory of the Configuration Wizard

```
cd <CW_PROFILE>/ConfigEngine
```

Example:

```
WIN    cd E:\IBM\WebSphere\AppServer\profiles\cw_profile\ConfigEngine
UNIX   cd /opt/IBM/WebSphere/AppServer/profiles/cw_profile/ConfigEngine
```

3. Run the following command to create a file that list the ports for the WebSphere Portal server (WebSphere_Portal_PortMatrix.txt)

```
WIN    ConfigEngine.bat list-server-ports -DWasPassword=<WASPWD>
UNIX   ./ConfigEngine.sh list-server-ports -DWasPassword=<WASPWD>
```

4. Change to the log directory of the ConfigEngine

```
cd <WP_PROFILE>/ConfigEngine/log
```

Example:

```
WIN    cd E:\IBM\WebSphere\AppServer\profiles\cw_profile\ConfigEngine\log
UNIX   cd /opt/IBM/WebSphere/AppServer/profiles/cw_profile/ConfigEngine/log
```

5. Open the **server1_PortMatrix.txt** with a viewer

Example of **server1_PortMatrix.txt**:

```
Ports for server1 :
WC_defaulthost=10200
WC_adminhost=10201
WC_defaulthost_secure=10202
WC_adminhost_secure=10203
BOOTSTRAP_ADDRESS=10204
SOAP_CONNECTOR_ADDRESS=10205
```

6. Write down the WC_defaulthost. This port will be used with the Configuration Wizard URL

WC_defaulthost=_____

Example: WC_defaulthost=10200

9 URI.HOME.SUBSTITUTION

http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/inst_next_steps-Windows.dita

Setting the uri.home.substitution to true is recommended but not required. The uri.home.substitution variable determines whether a public URL should be translated to a protected URL if a user session exists. When the uri.home.substitution is set to true and a session exist then the URL will route to a protected URL. When the uri.home.substitution is set to false and a session exists, the URL will be routed to an unprotected URL.



1. Open a browser and set the URL to the WebSphere Application Server console URL

```
http://<HOSTNAME>:<WC_adminhost>/ibm/console  
https://<HOSTNAME>:<WC_adminhost_secure>/ibm/console
```

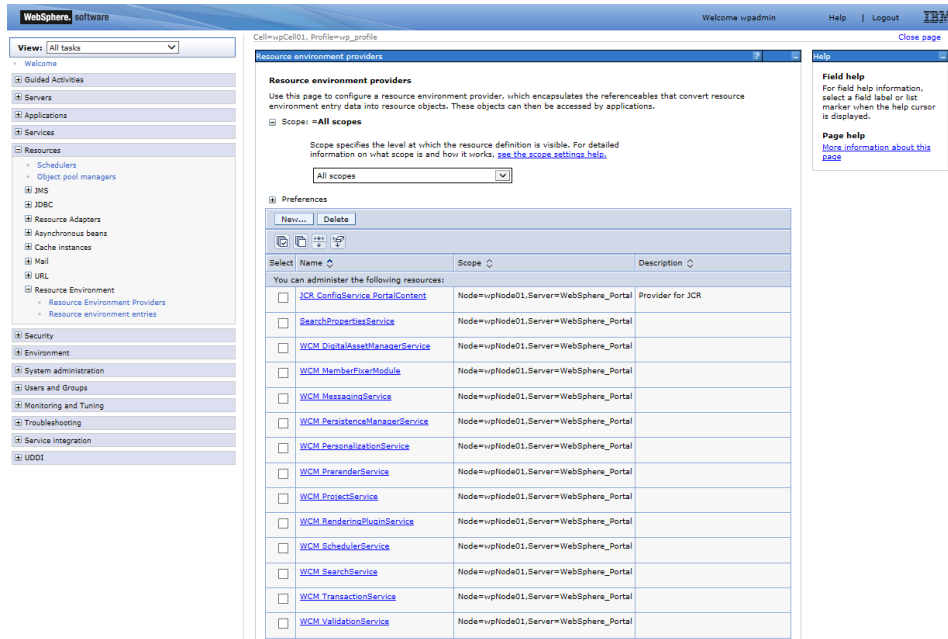
Example:

```
http://wps85-64.ibm.com:10038/ibm/console  
https://wps85-64.ibm.com:10041/ibm/console
```

2. Login with the Administrator User ID and password that was set during installation. This will be the current WebSphere Server Administrator

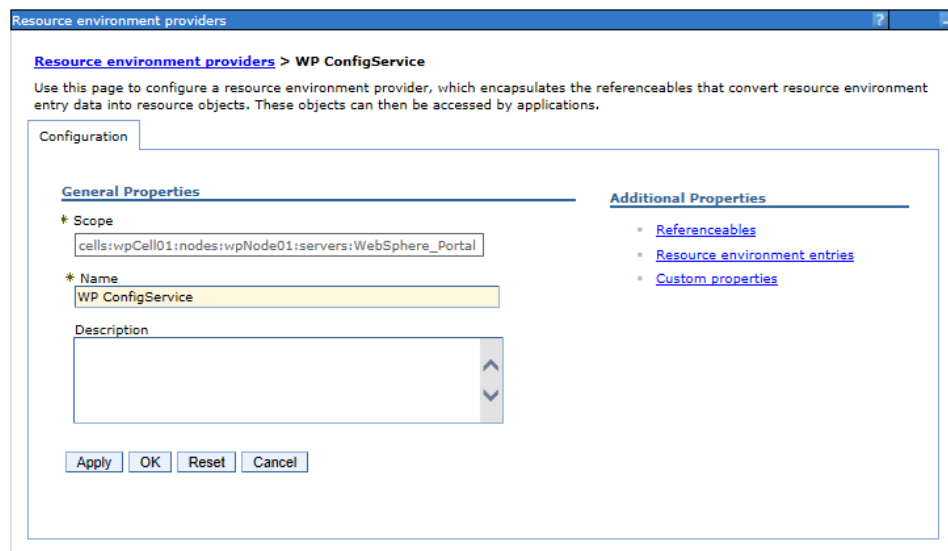
Example:

```
wpadmin/passw0rd
```

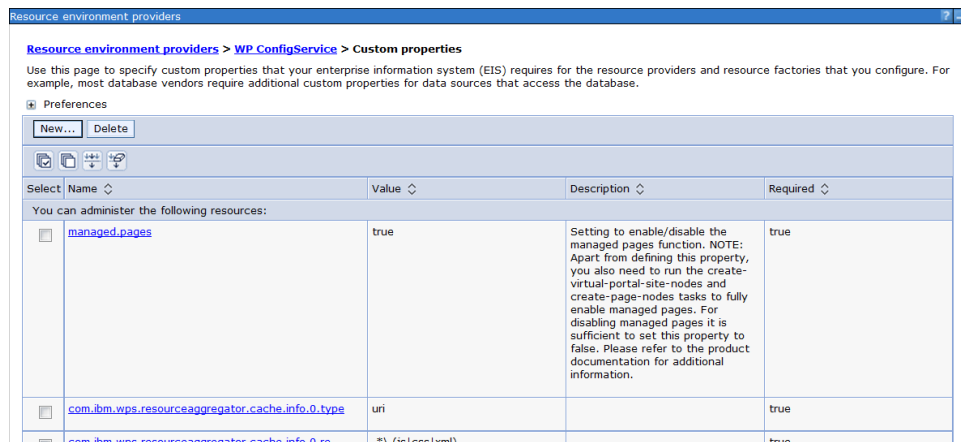


3. Navigate to Resources > Resource Environment > Resource Environment Providers

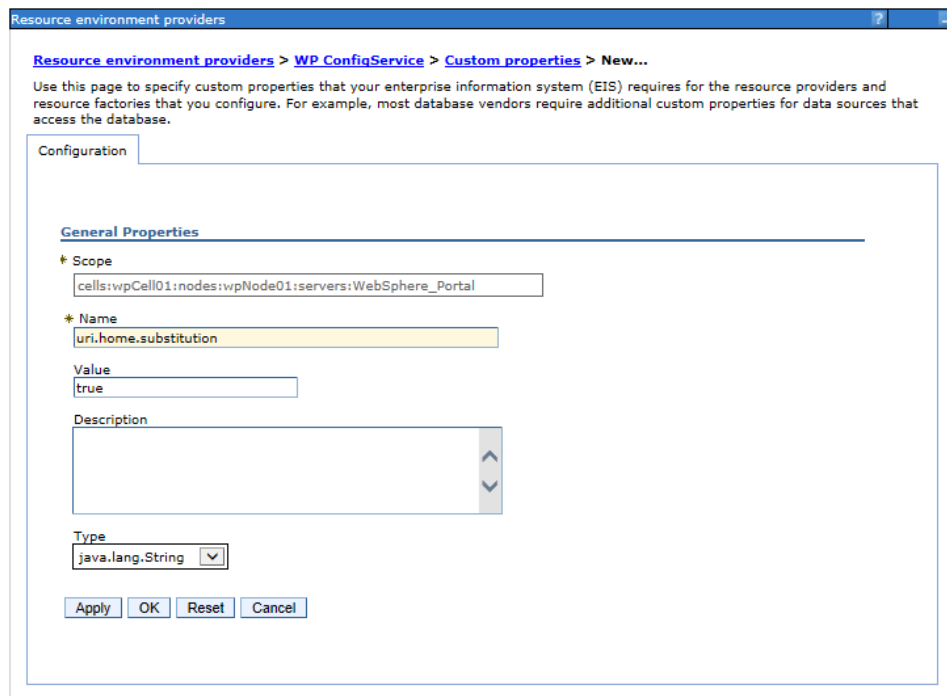
4. Click WP_ConfigService



5. Under Additional Properties, click on Custom properties



6. Click New

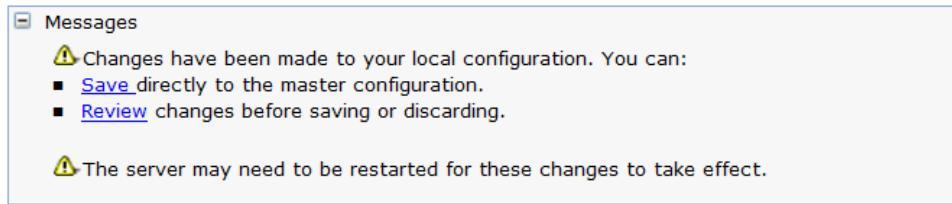


7. Fill in the following information

Name: uri.home.substitution

Value: true

8. Click OK

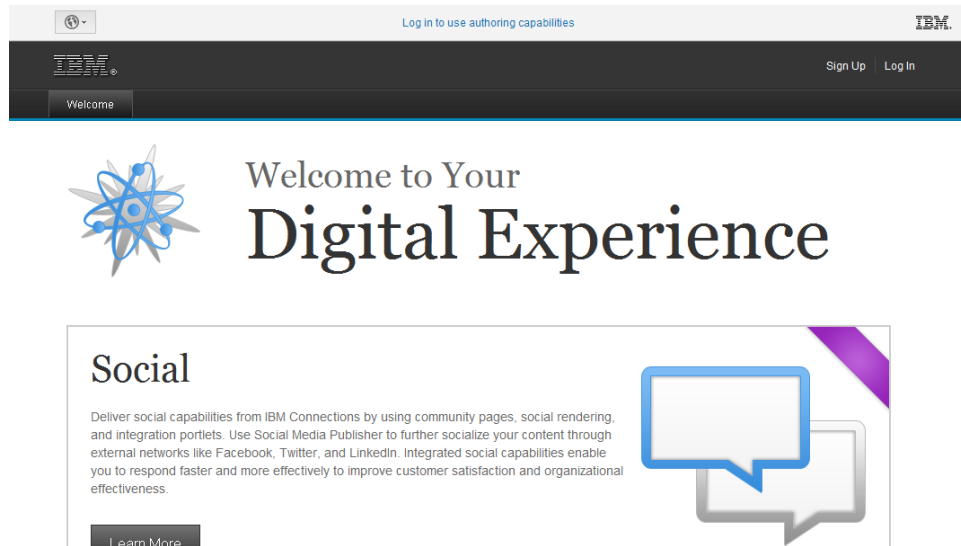


9. Click [Save](#) to save to the master configuration

10. WebSphere Portal JVM must be restarted for the changes to take effect

10 Validate

10.1 WebSphere Portal Server URL



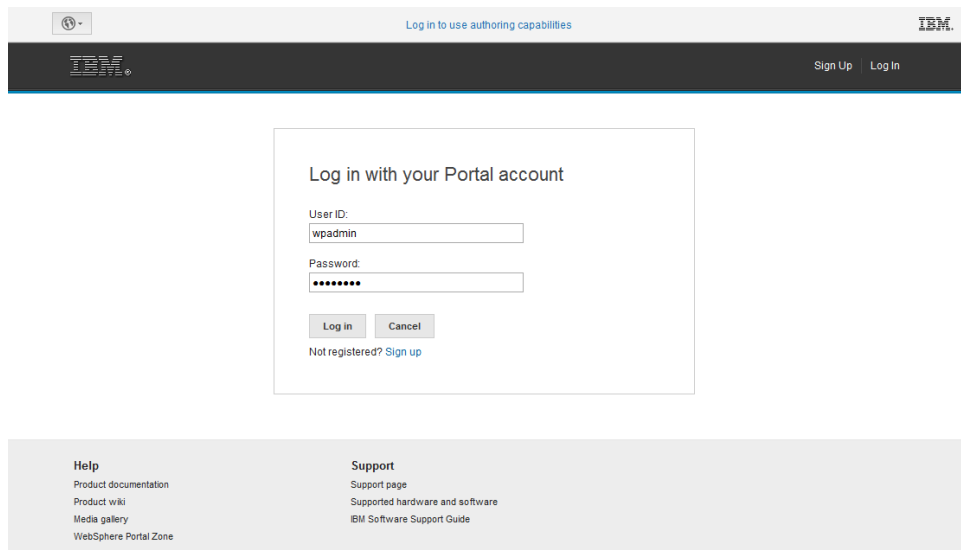
1. Open a browser and set the URL to the WebSphere Portal URL

`http://<HOSTNAME>:<PORT>/<WP_CONTEXTROOT>/<WP_DEFAULTHOME>`

Example:

<http://wps85-64.ibm.com:10039/wps/portal>

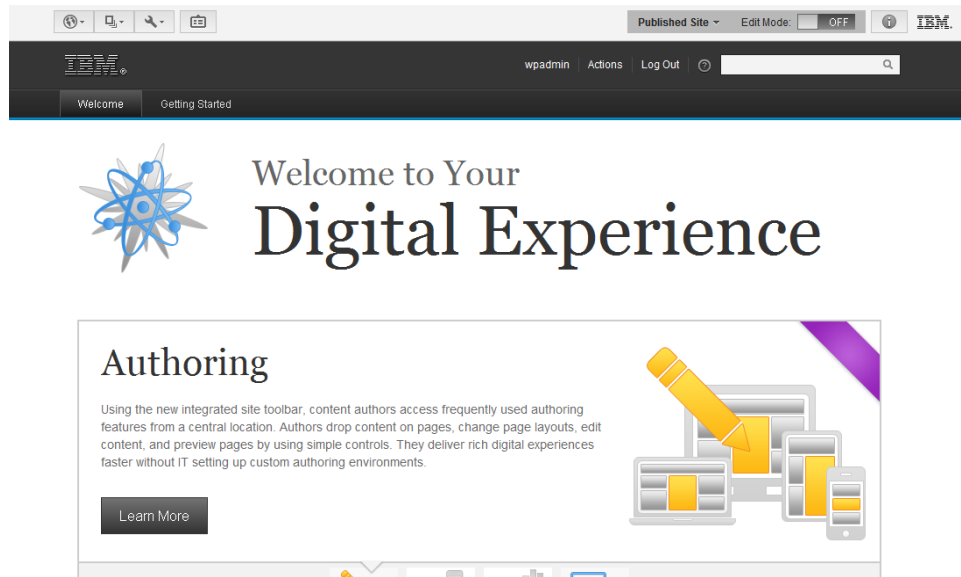
2. Click Log In



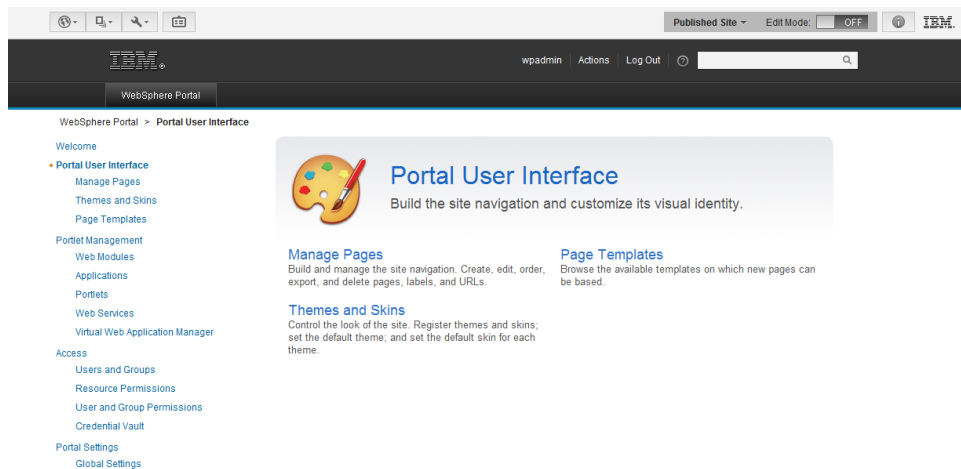
3. Login with the Administrator User ID and password that was set during installation. This will be the current WebSphere Portal Administrator

Example:

wpadmin/passw0rd



4. Click the “Open the administration menu” icon

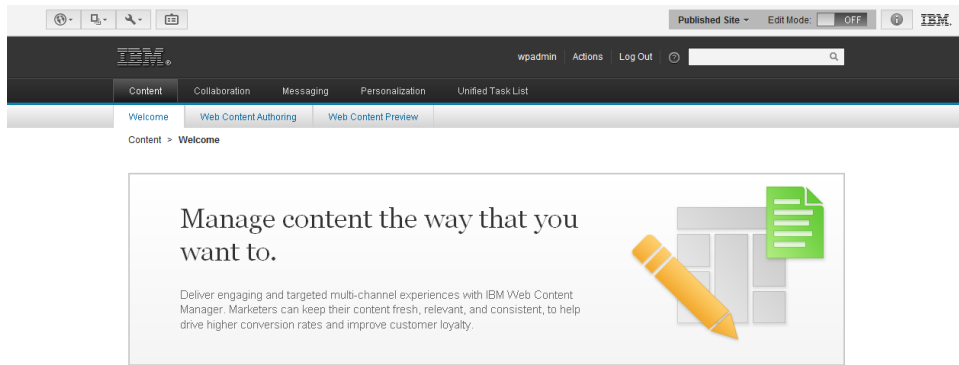


5. On the drop down, click on “Portal User Interface” to open the Portal administration page

6. Click the “Open the applications menu” icon



7. On the drop down, click “content”



First Steps

8. Click the Web Content Authoring tab for the WCM Authoring page
9. Click the Personalization tab for the Personalization page

10.2 Configuration Wizard URL

1. Open a browser and set the URL to the Configuration Wizard URL
`http://<HOSTNAME>:<WC_defaulthost_PORT>/ibm/wizard`

Example:

<http://wps85-64.ibm.com:10200/ibm/wizard>

Log in with the Configuration Wizard administrator credentials

User ID:

Password:

2. Login with the Configuration Wizard credentials that were set during installation.

Example:

`cwadmin/passw0rd`

Configuration Wizard

Complete essential configuration tasks with less reading and time spent editing properties files. Repeat common configuration tasks on different servers by using wizard selections saved from another session as a starting point for a new session. [Learn More](#)

Set Up a Stand-alone Server

Set up a stand-alone server environment to use for development, demonstrations, and small production sites. For guidance, see [Roadmaps for installation and deployment](#).

Set Up a Cluster

Set up either a dynamic or static cluster to use for production sites. For guidance, see [Roadmaps for installation and deployment](#) and select the roadmap that best matches your needs.

Add On New Capability

Install and deploy a new capability or remove an add-on.

Update or Maintain a Current Environment

Migrate or upgrade to a new version or apply maintenance. Also, select this option to rollback maintenance.

More Options

Select from utilities such as connecting to an existing database domain, creating or removing a portal profile, and more.

[IBM Knowledge Center](#) [developerWorks Forum](#)

10.3 WebSphere Portal JVM Process

10.3.1 Stop JVM Process

```
E:\IBM\WebSphere\wp_profile\bin>stopServer.bat WebSphere_Portal -user wpadmin -password passw0rd
ADMU0116I: Tool information is being logged in file
           E:\IBM\WebSphere\wp_profile\logs\WebSphere_Portal\stopServer.log
ADMU0128I: Starting tool with the wp_profile profile
ADMU3100I: Reading configuration for server: WebSphere_Portal
ADMU3201I: Server stop request issued. Waiting for stop status.
ADMU4000I: Server WebSphere_Portal stop completed.
```

1. Open a command prompt on the WebSphere Portal Server
2. Change to the bin directory of the WebSphere Portal profile

```
cd <WP_PROFILE>/bin
```

Example:

```
WIN    cd E:\IBM\WebSphere\wp_profile\bin
UNIX   cd /opt/IBM/WebSphere/wp_profile/bin
```

3. Run the following command to start the WebSphere Portal JVM

```
stopServer.(bat/sh) WebSphere_Portal
                        -user <WASADMIN> -password <WASPWD>
```

Example Windows:

```
WIN    stopServer.bat WebSphere_Portal -user wpadmin -password passw0rd
UNIX   ./stopServer.sh WebSphere_Portal -user wpadmin -password passw0rd
```

4. Wait for the following message on the prompt

```
Server <SERVER_NAME> stop completed.
```

Example:

```
Server WebSphere_Portal stop completed.
```

10.3.2 Start JVM Process

```
E:\IBM\WebSphere\wp_profile\bin>startServer.bat WebSphere_Portal
ADMU0116I: Tool information is being logged in file
           E:\IBM\WebSphere\wp_profile\logs\WebSphere_Portal\startServer.log
ADMU0128I: Starting tool with the wp_profile profile
ADMU3100I: Reading configuration for server: WebSphere_Portal
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server WebSphere_Portal open for e-business; process id is 2920
```

1. Open a command prompt on the WebSphere Portal Server
2. Change to the bin directory of the WebSphere Portal profile

```
cd <WP_PROFILE>/bin
```

Example:

```
WIN    cd E:\IBM\WebSphere\wp_profile\bin
UNIX   cd /opt/IBM/WebSphere/wp_profile/bin
```

3. Run the following command to start the WebSphere Portal JVM

```
startServer.(bat/sh) WebSphere_Portal
```

Example:

```
WIN    startServer.bat WebSphere Portal
UNIX   ./startServer.sh WebSphere_Portal
```

4. Wait for the following message on the prompt

```
Server <SERVER_NAME> open for e-business; process id is <PROCESS ID>
```

Example:

```
Server WebSphere_Portal open for e-business; process id is 2922
```

10.4 Configuration Wizard JVM

10.4.1 Stop JVM Process

1. Open a command prompt on the WebSphere Portal Server
2. Change to the bin directory of the WebSphere Portal profile

```
cd <CW_PROFILE>/bin
```

Example:

```
WIN    cd E:\IBM\WebSphere\AppServer\profiles\cw_profile\bin
UNIX   cd /opt/IBM/WebSphere/AppServer/profiles/cw_profile/bin
```

3. Run the following command to start the Configuration Wizard JVM

```
stopServer.(bat/sh) server1 -user <CWADMIN> -password <CWPWD>
```

Example:

```
WIN    stopServer.bat server1 -user cwadmin -password passw0rd
UNIX   ./stopServer.sh server1 -user cwadmin -password passw0rd
```

4. Wait for the following message on the prompt

```
Server <SERVER_NAME> stop completed.
```

Example:

```
Server server1 stop completed.
```

10.4.2 Start JVM Process

```
E:\IBM\WebSphere\AppServer\profiles\cw_profile\bin>startServer.bat server1
ADMU0116I: Tool information is being logged in file
           E:\IBM\WebSphere\AppServer\profiles\cw_profile\logs\server1\startServer.log
ADMU0128I: Starting tool with the cw_profile profile
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 1624
```

1. Open a command prompt on the WebSphere Portal Server

2. Change to the bin directory of the Configuration Wizard profile

```
cd <CW_PROFILE>/bin
```

Example:

```
WIN    cd E:\IBM\WebSphere\AppServer\profiles\cw_profile\bin
UNIX   cd /opt/IBM/WebSphere/AppServer/profiles/cw_profile/bin
```

3. Run the following command to start the WebSphere Portal JVM

```
startServer.(bat/sh) server1
```

Example:

```
WIN    startServer.bat server1
UNIX   ./startServer.sh server1
```

4. Wait for the following message on the prompt

```
Server <SERVER_NAME> open for e-business; process id is <PROCESS ID>
```

Example:

```
Server server1 open for e-business; process id is 1624
```

11 What's Next

- **Lastest Fixpack and Combined Cumulative Fix**

After installing WebSphere Portal 8.5, it is recommended to update to the latest version. Review the following link for the download and instructions of the latest Fixpack or Combined Cumulative fix.

<http://www-01.ibm.com/support/docview.wss?uid=swg24037802>

- **External Database**

For a development environment, the Out of the box derby database is acceptable. When setting up a cluster or a production environment an external database is required. WebSphere Portal 8.5 supports multiple different database such as IBM DB2, Oracle and Microsoft SQL Server. Review the following link for the list of supported external database.

<http://www-01.ibm.com/support/docview.wss?uid=swg27007791>

- **Static and Dynamic Cluster**

Clusters enable you to scale your IBM WebSphere Portal configuration. Clusters also enable enterprise applications to be highly available because requests are automatically routed to the running servers in the event of a failure. There are numerous cluster configuration, such as horizontal, vertical, multiple, and dynamic. Adding a new cluster member will have to be done manually.

- **User Registry (Identity Management)**

Configure user registry security on IBM WebSphere Portal to protect your server from unauthorized users. You can configure a stand-alone LDAP user registry or you can add LDAP user registries and/or database user registries to the default federated repository. After configuring your user registry, you can add realms for Virtual Portals or a lookaside database to store attributes that cannot be stored in the LDAP user registry.

<http://www-01.ibm.com/support/docview.wss?uid=swg27007791>

- **Web Server**

IBM WebSphere Portal uses the internal HTTP transport within IBM WebSphere Application Server to handle requests. However, because WebSphere Application Server also supports the use of an external web server, you can access WebSphere Portal from your web server. You can use a local web server on the same server as WebSphere Portal or you can use a remote web server on a different server. A remote web server is typical for a production environment or other high-traffic configuration and is also typically placed in DMZ outside a firewall to protect portal ports.

<http://www-01.ibm.com/support/docview.wss?uid=swg27007791>

