

WebSphere Portal 8.5 Installation

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1 Information

This document will help with a standalone installation of WebSphere Portal 8.5 Server/Enable/Extend/WCM/WCM Standard Edition. Most of the screen shots are from a windows installation but can be used for reference for other platform installation such as Linux/AIX/Solaris.

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

- This document is not written or supported by IBM Support

Name	Date	Version	Description
Loc Dang	09/13/14	V1	WebSphere Portal 8.5 Installation

2 Media

2.1 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 <WPS85S>

WPS85EN = _____

Example:

```
<WPS85S>/IBMJAVA7/...
<WPS85S>/SETUP/...
<WPS85S>/WAS8552/...
<WPS85S>/WP85_Server/...
```

2.2 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
CIYE3ML	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 *<WPS85EN>*

WPS85EN = _____

Example:

```
<WPS85EN>/IBMJAVA7/...
<WPS85EN>/SETUP/...
<WPS85EN>/WAS8552/...
<WPS85EN>/WP85_Enable/...
<WPS85EN>/WP85_Server/...
```

2.3 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 <WPS85EX>

WPS85EX = _____

Example:

```
<WPS85EX>/IBMJAVA7/...
<WPS85EX>/SETUP/...
<WPS85EX>/WAS8552/...
<WPS85EX>/WP85_Extend/...
<WPS85EX>/WP85_Server/...
```

2.4 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 <WCM85>

WCM85 = _____

Example:

```
<WCM85>/IBMJAVA7/...
<WCM85>/SETUP/...
<WCM85>/WAS8552/...
<WCM85>/WP85_WCM/...
<WCM85>/WP85_Server/...
```

2.5 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 <WCM85SE>

WCM85SE = _____

Example:

```
<WCM85SE>/IBMJAVA7/...
<WCM85SE>/SETUP/...
<WCM85SE>/WAS8552/...
<WCM85SE>/WP85 WCMSE/...
<WCM85SE>/WP85_Server/...
```


3 Preparing

3.1 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

3.2 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

3.3 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. To install with a Graphical User Interface, Install and configure a X Server. When using a response file, a X Server is not required.
3. 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
```

4. 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/gpfslnsd -F 25000
```

3.4 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. To install with a Graphical User Interface, Install and configure X Server. When using a response file, an X Server is not required.
3. 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
```

4. 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/gpfslnsd -F 25000
```

5. If your using AIX 7.1, verify the following link has been completed
<http://www-01.ibm.com/support/docview.wss?uid=swg21631478>
6. Increase paging space from 1024MB to 8192MB
7. 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

3.5 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. To install with a Graphical User Interface, Install and configure X Server. When using a response file, an X Server is not required.
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. When setting up a non-global zone, do not inherit package directories. Stop all WebSphere Portal and related process before starting and stopping.
4. 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

4 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.

5 IBM Installation Manager

To install WebSphere Application Server or WebSphere Portal Server, IBM Installation Manager is required. IBM Installation Manager must either be pre-installed or installed using the Setup of WebSphere Portal. Review the WebSphere Portal Detailed System Requirement link for supported versions.

5.1 Graphical User Interface Install

Follow the following section to install the IBM Installation Manager using the WebSphere Portal media.

1. Change to the Operating System directory of the extracted media directory

```
<WPS85XX>/SETUP/IIM/<OS>/
```

Example:

```
WIN32      cd F:/Media/WPS85EN/SETUP/IIM/Win32/
WIN64      cd F:/Media/WPS85EN/SETUP/IIM/Win64/
LINUX32    cd /opt/tmp/Media/WPS85EN/SETUP/IIM/linux_x86/
LINUX64    cd /opt/tmp/Media/WPS85EN/SETUP/IIM/linux_x86_64/
AIX        cd /opt/tmp/Media/WPS85EN/SETUP/IIM/aix/
SUN_SPARC  cd /opt/tmp/Media/WPS85EN/SETUP/IIM/solaris_sparc/
```

2. Run the following command to start the installation of the IBM Installation Manager

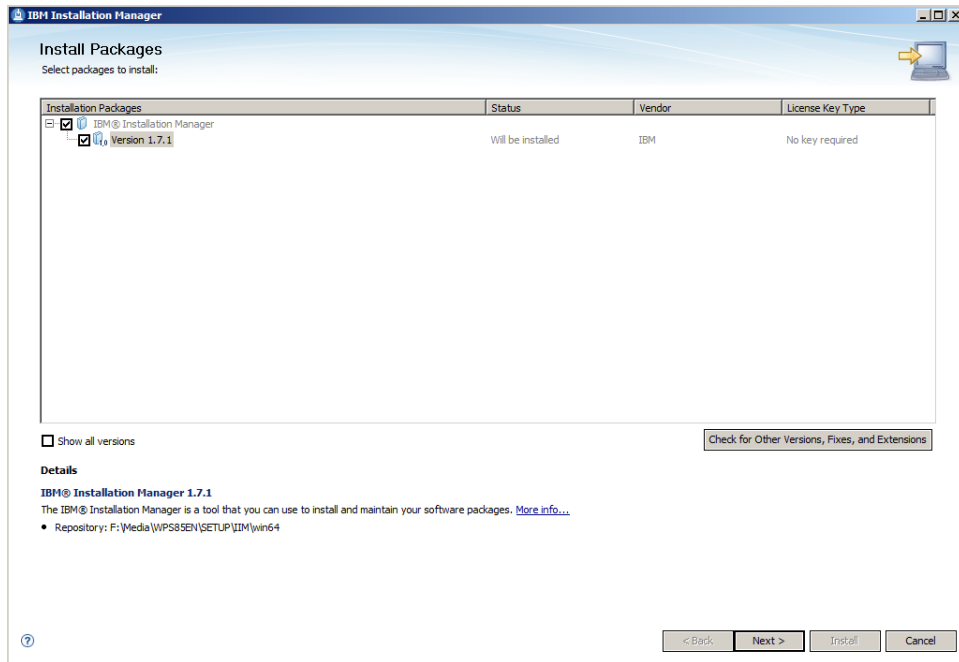
Non-Administrator or Non-Root

```
Windows = userinst.exe
Linux = ./userinst
AIX = ./userinst
Solaris = ./userinst
```

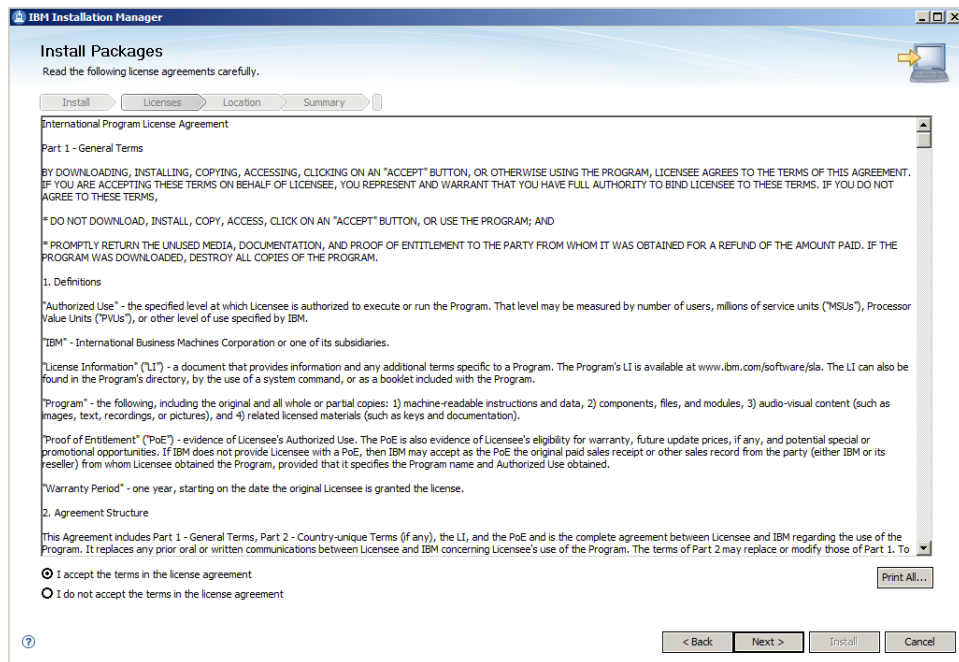
Administrator or Root

```
Windows = install.exe
Linux = ./install
AIX = ./install
Solaris = ./install
```

Note: “Run as Administrator” maybe required on specific Windows Operating Systems.



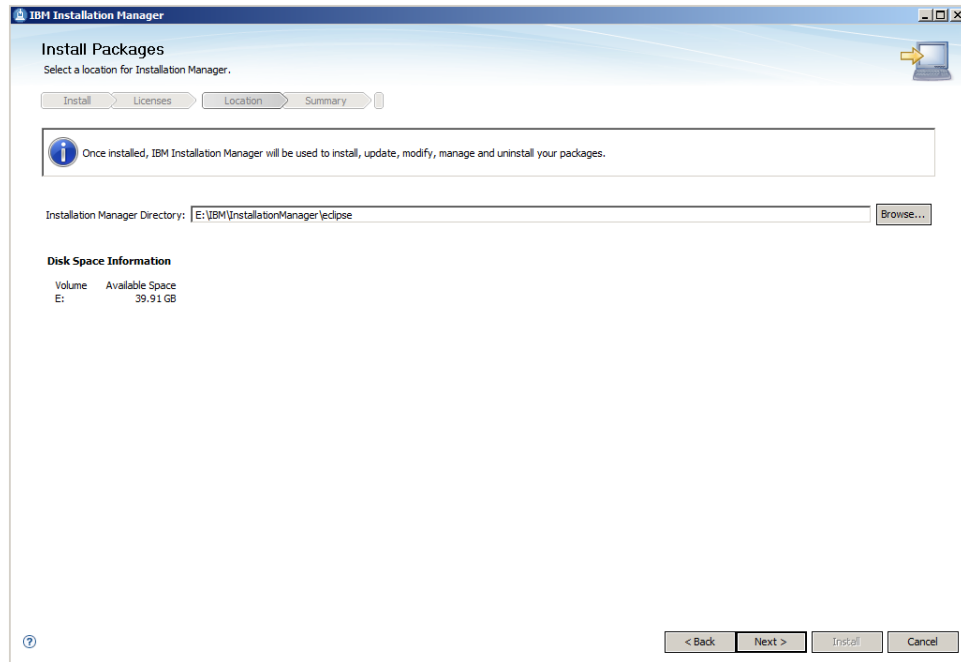
3. Click **Next**



4. Review the "International Program License Agreement"

5. Select **I accept the terms in the license agreement**

6. Click **Next**



7. Browse/Enter the directory location of where to install the Installation Manager

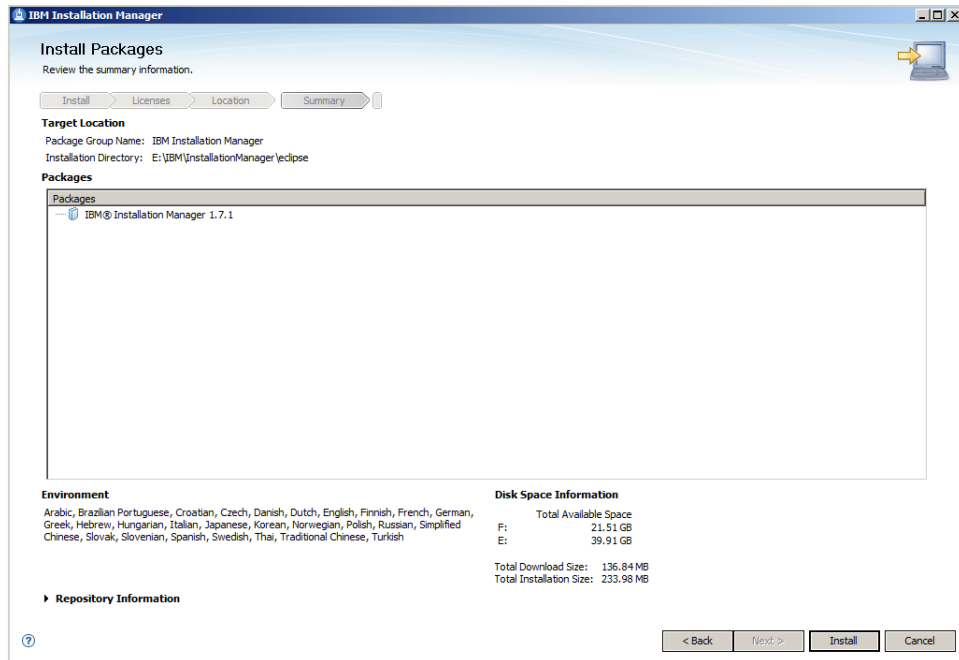
Installation Manager Directory = _____

Example:

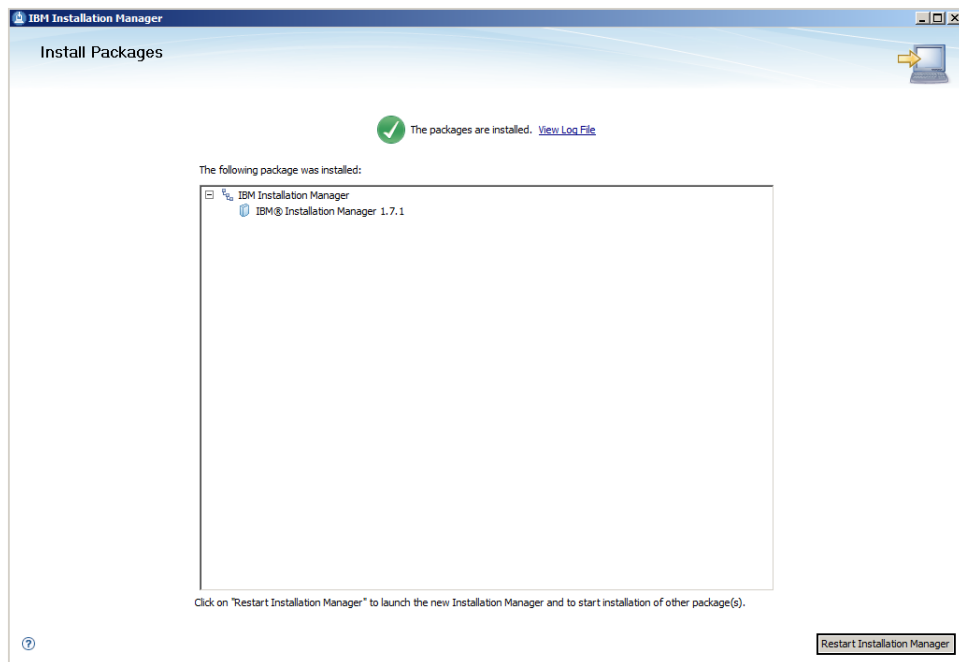
WIN	E:\IBM\InstallationManager\eclipse
UNIX	/opt/IBM/InstallationManager/eclipse

Note: Stay away from spaces in the directory path when possible.

8. Click **Next**



9. Click **Install**



10. Click **Restart Installation Manager**. If the WebSphere Portal Server will be installed at another time, click the X on the top right.

5.2 Commandline Install

1. Change to the Operating System directory of the extracted media directory

```
cd <WPS85XX>/SETUP/IIM/<OS>/
```

Example:

```
WIN32      cd F:/Media/WPS85EN/SETUP/IIM/Win32/
WIN64      cd F:/Media/WPS85EN/SETUP/IIM/Win64/
LINUX32    cd /opt/tmp/Media/WPS85EN/SETUP/IIM/linux_x86/
LINUX64    cd /opt/tmp/Media/WPS85EN/SETUP/IIM/linux_x86_64/
AIX        cd /opt/tmp/Media/WPS85EN/SETUP/IIM/aix/
SUN_SPARC  cd /opt/tmp/Media/WPS85EN/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

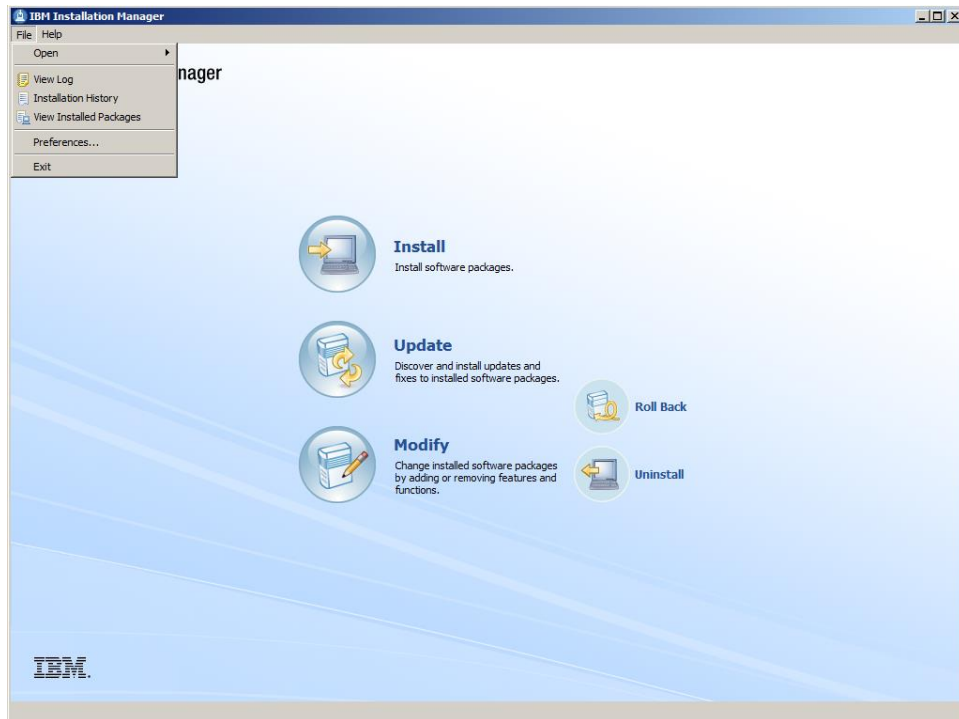
Installed com.ibm.cic.agent_1.7.1000.20131119_2219 to the
E:\IBM\InstallationManager\eclipse directory.

Example: UNIX

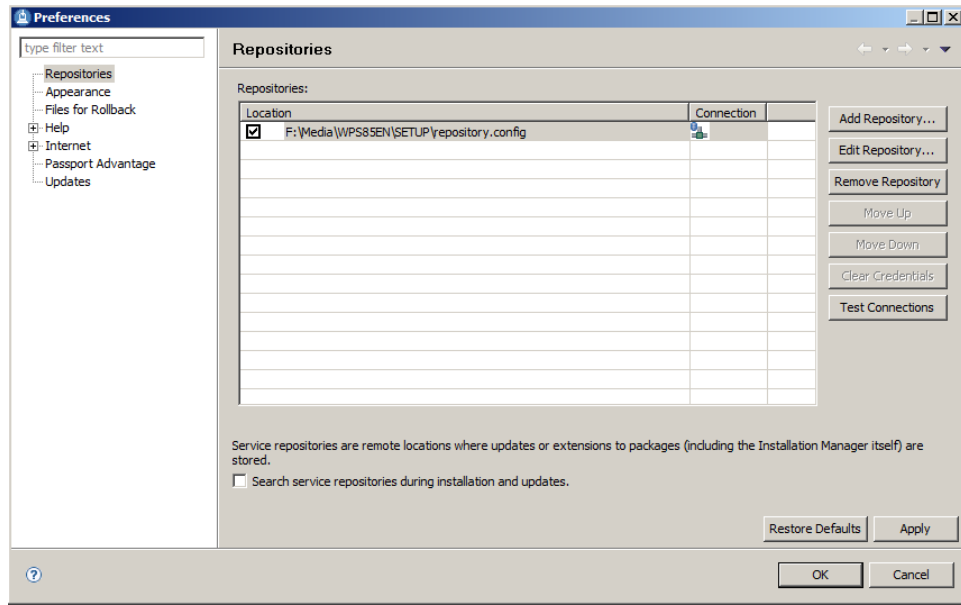
Installed com.ibm.cic.agent_1.7.1000.20131119_2219 to the
/opt/IBM/InstallationManager/eclipse directory.

6 Portal Install

1. Start the WebSphere Portal Installation using one of the following methods
 - a. Click **Restart Installation Manager** after a successful install of the IBM Installation Manager
 - b. Run the IBM Installation Manager from a browser/prompt (IBMIM)
`<IIM_HOME>/eclipse/IBMIM(.exe)`
 - c. Click **Install IBM WebSphere Portal from media** from the WebSphere Portal Setup script.



2. Click File > Preferences...

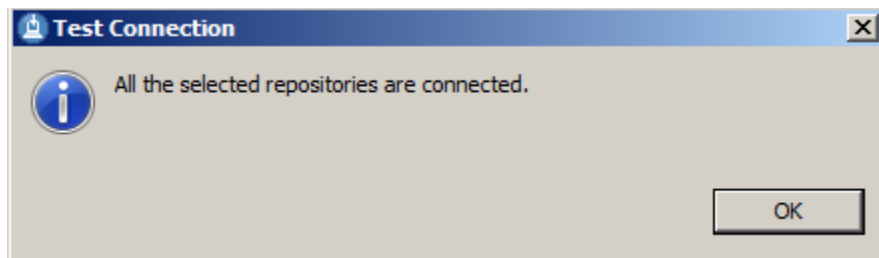


3. On the left Menu, select **Repositories** if not already selected
4. On the right, Click **Add Repositories**
5. Add/Browse to the **repository.config** from the SETUP directory

Example:

WIN	F:\Media\WPS85EN\SETUP\repository.config
UNIX	/opt/Media/WPS8EN/SETUP/repository.config

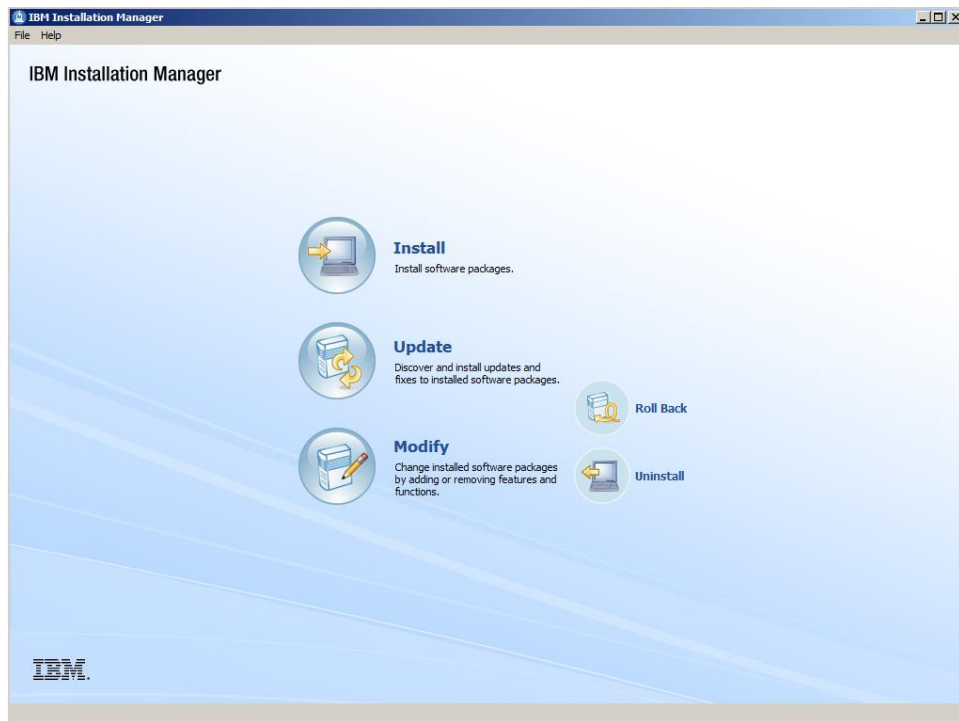
6. Click **Test Connections**



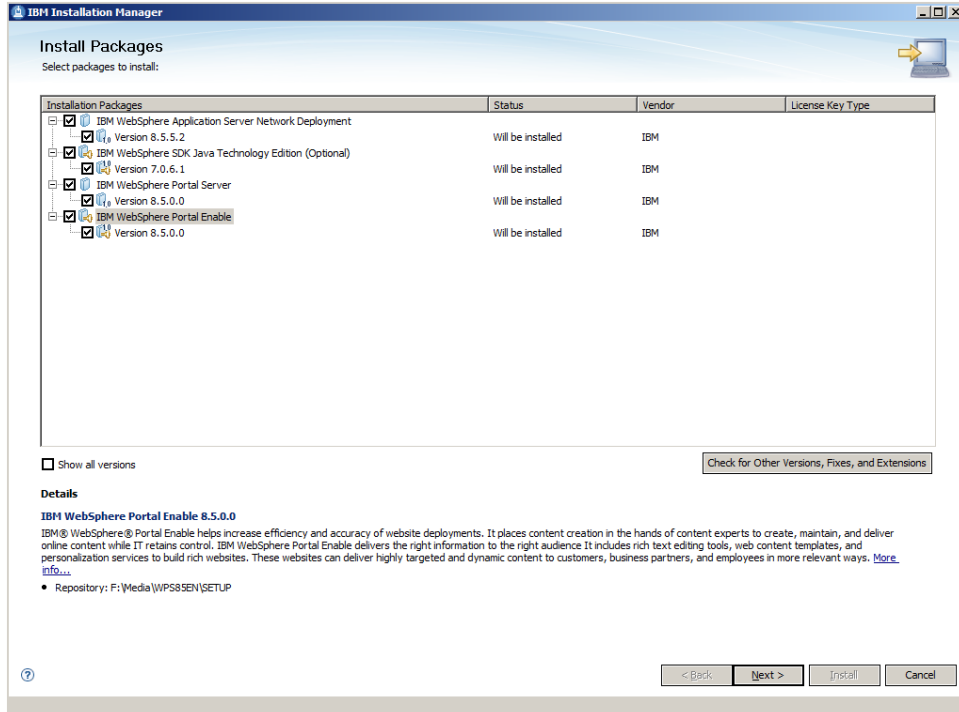
7. A pop-up message will appear.

PASS: All the selected repositories are connected
 FAIL: The Following repositories are not connected

8. Click **OK**
9. Uncheck **Search service repositories during installation and updates.**
10. Click **OK**



11. Click **Install**



12. Check the checkbox by the following available packages

IBM WebSphere Application Server Network Deployment
IBM WebSphere SDK Java Technology Edition (Optional)

```

IBM WebSphere Portal Server
IBM WebSphere Portal Enable *
IBM WebSphere Portal Extend *
IBM Web Content Management *
IBM Web Content Management Standard Edition *

```

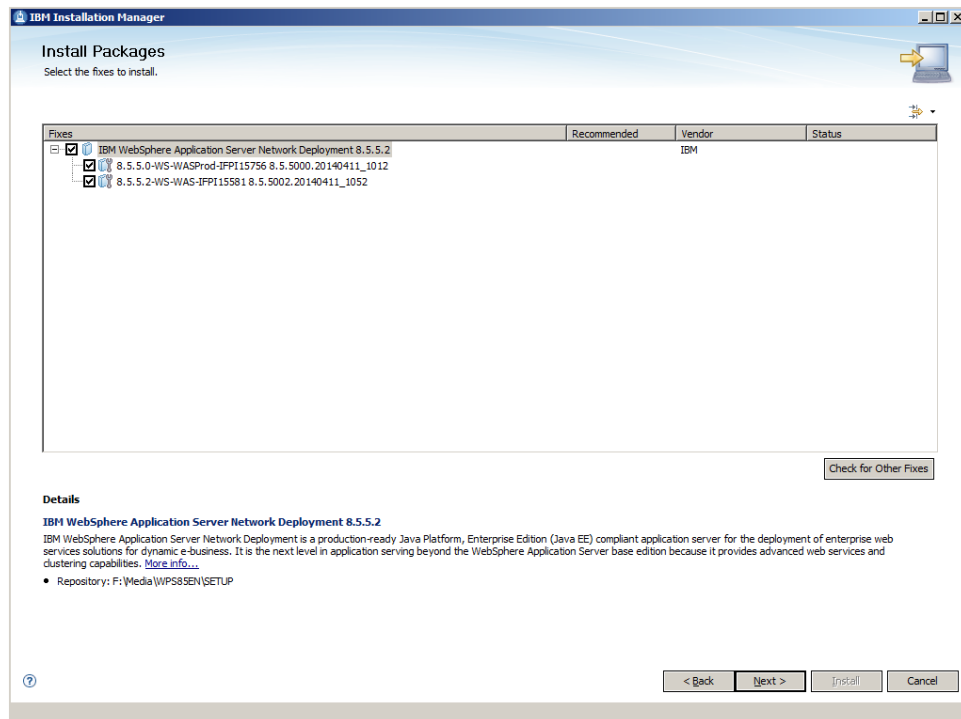
NOTE: * Only one advance entitlement can be selected if available.

```

IBM WebSphere Portal Enable *
IBM WebSphere Portal Extend *
IBM Web Content Management *
IBM Web Content Management Standard Edition *

```

13. Click **Next**



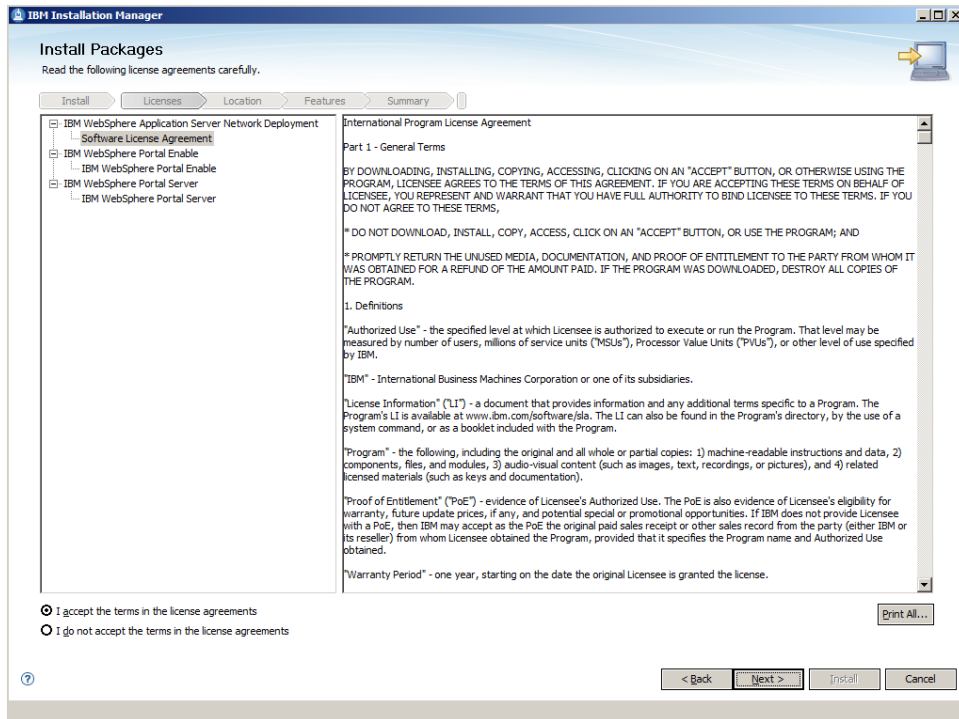
14. Verify/Check the check box by the following packages

```

+ IBM WebSphere application Server Network Deployment 8.5.5.2
  - 8.5.5.0-WASProd-IFPI15756 8.5.5000.20140411_1012
  - 8.5.5.2-WAS-WAS-IFPI15581 8.5.5002.20140411_1052

```

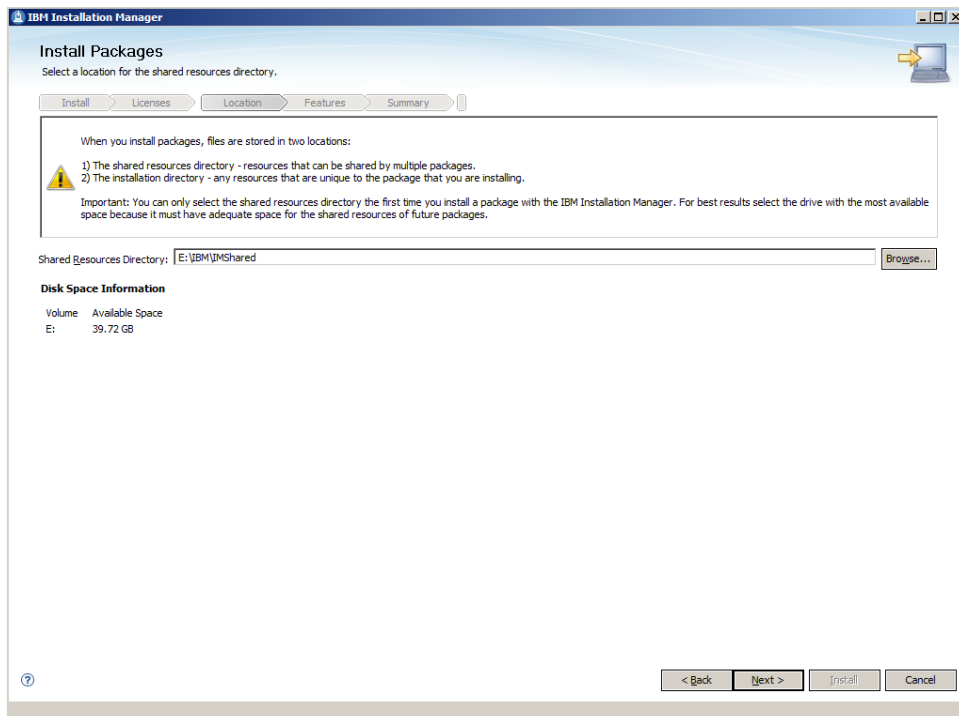
15. Click **Next**



16. Review the International Program License Agreement

17. Select **I accept the terms in the license agreements**

18. Click **Next**



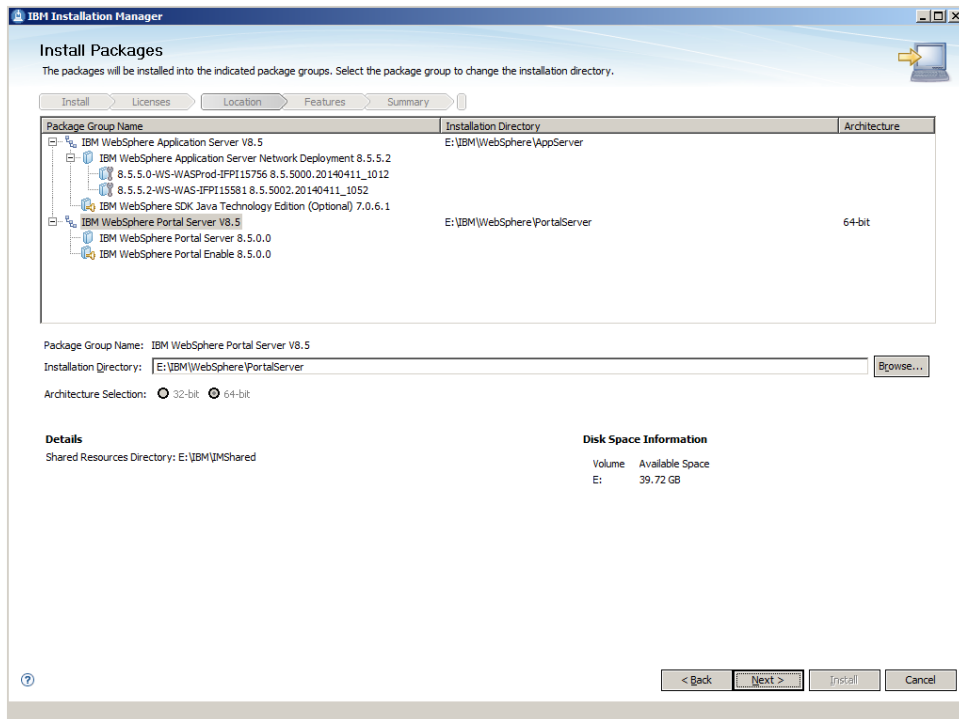
19. Update/Browse to a location for the Shared Resources Directory

Shared Resources Directory = _____

Example:

WIN	E:\IBM\IMShared
UNIX	/opt/IBM/IMShared

20. Click **Next**



21. Click **IBM WebSphere Application Server V8.5**

22. Verify/Update the Installation Directory

Installation Directory = _____

Example:

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

23. Click on **IBM WebSphere Portal Server V8.5**

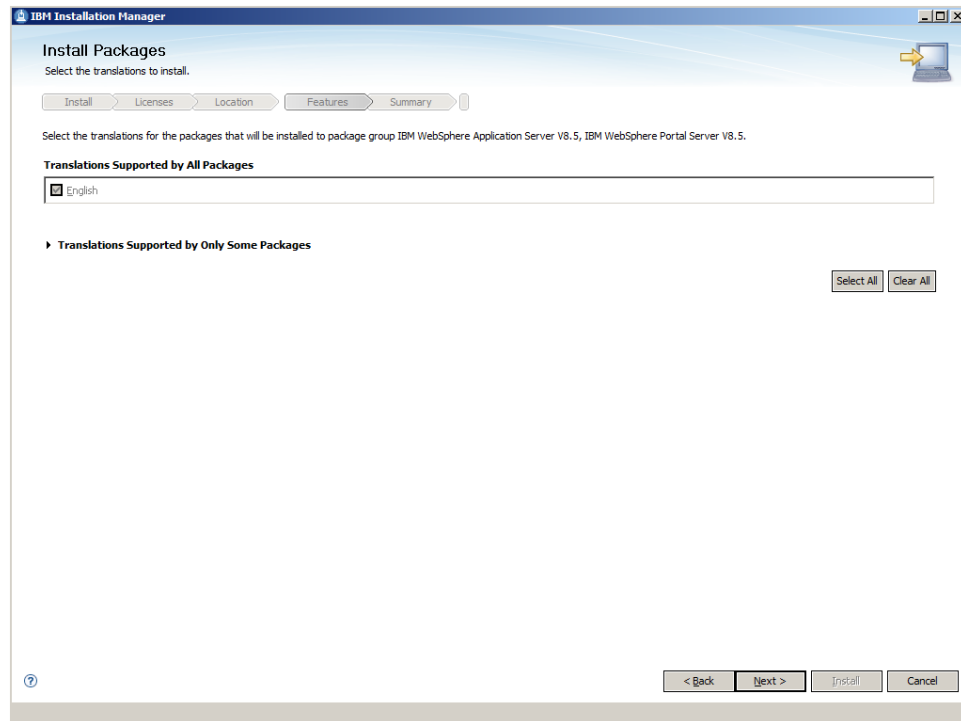
24. Verify/Update the Installation Directory

Installation Directory = _____

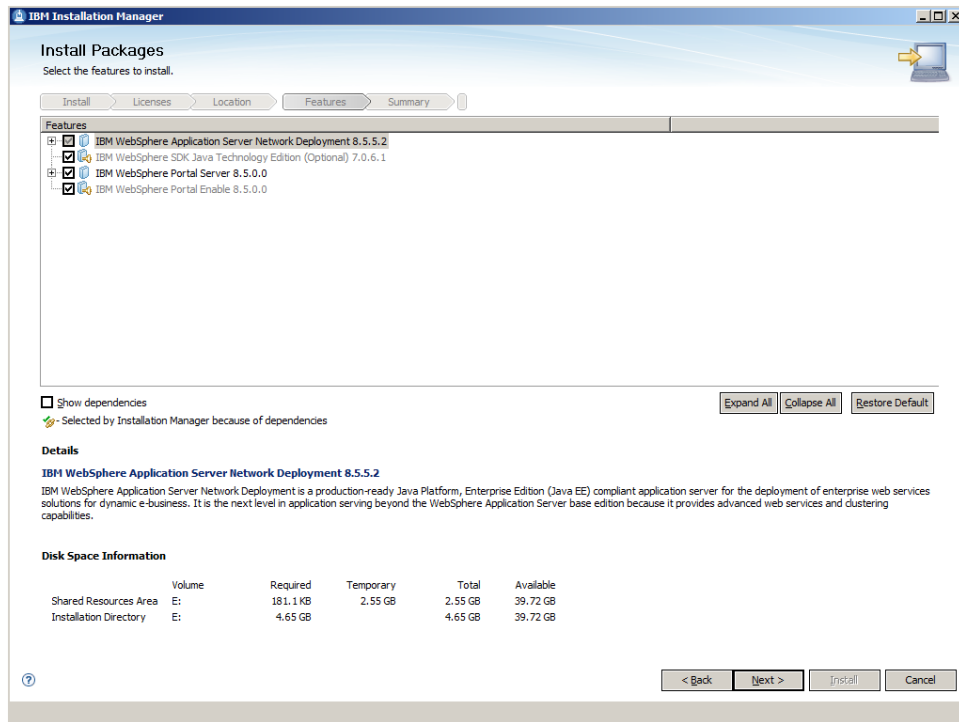
Example:

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

25. Click Next



26. Click Next



27. Verify/Check the Following features

```

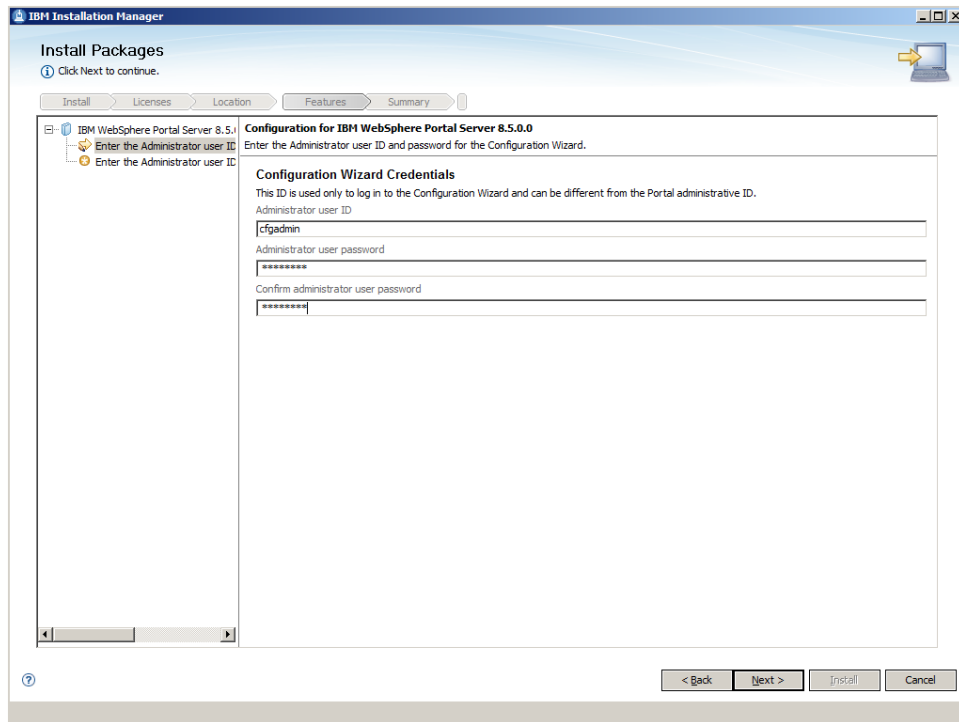
IBM WebSphere Application server Network Deployment 8.5.5.2
IBM WebSphere SDK Java Technology Edition (Optional) 7.0.6.1
IBM WebSphere Portal Server 8.5.0.0
IBM WebSphere Portal Enable 8.5.0.0 *
IBM WebSphere Portal Extend 8.5.0.0 *
IBM Web Content Management 8.5.0.0 *
IBM Web Content Management Standard Edition *
```

NOTE: * Only one Advance entitlement can be selected if available.

```

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 *
```

28. Click Next



29. Fill in the following information for the Configuration Wizard Credentials

Administrator user ID = _____

Administrator user password = _____

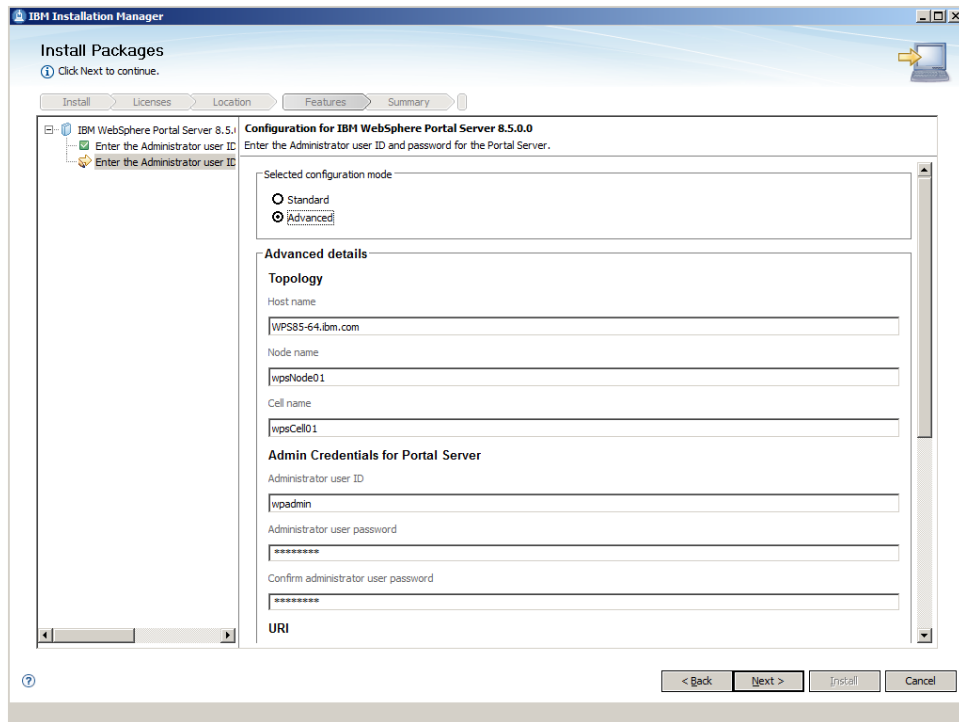
Example:

```
Administrator user ID: cwadmin  
Administrator user password: passw0rd
```

Note: Review the following link for User ID and password requirements

http://www-01.ibm.com/support/knowledgecenter/?lang=en#!/SSHRKX_8.5.0/mp/plan/sec_chars.dita

30. Click **Next**



31. Select the configuration mode. In the example, **Advanced** will be selected because it has more options.

32. Verify/Enter the Hostname. Verify it is the fully qualified name

Host name = _____

Example: `wps85-64.ibm.com`

33. Enter in a Node name. It is suggested to keep the name as short as possible

Node name = _____

Example: `wpsNode01`

34. Enter in a Cell name. It is suggested to keep the name as short as possible

Cell name = _____

Example: `wpsCell01`

35. Enter in an Administrative User ID and password

Administrator User ID = _____

Administrator password = _____

Example:

Administrator User ID: wpadmin
Administrator password: passw0rd

NOTE:

- The Administrator User ID will be the initial WebSphere Portal and WebSphere Application Server Administrator ID.
- If a LDAP repository will be configured in the future, do not use a user ID that will match a LDAP user ID.
- Review the following link for User ID and password requirements

http://www-01.ibm.com/support/knowledgecenter/?lang=en#!/SSHRKX_8.5.0/mp/plan/security_chars.dita

IBM Installation Manager

Install Packages

Click Next to continue.

Install Licenses Location Features Summary

IBM WebSphere Portal Server 8.5.0

Enter the Administrator user ID

Enter the Administrator user ID and password for the Portal Server.

Administrator user password

Confirm administrator user password

URI

Context root

wps

Default home

portal

Personalized home

myportal

Profile

Profile name

wp_profile

Starting port number

10012

Profile path

E:\IBM\WebSphere\wp_profile

Browse

< Back Next > Install Cancel

36. If advance configuration mode was selected, update/verify the URI Context root

Context Root = _____

Example (default): wps

37. If advance configuration mode was selected, update/verify the URI Default home

Default Home = _____

Example (default): `portal`

38. Update/Verify If advance configuration mode was selected, update/verify the URI Personalized home

Personalized home = _____

Example (default): `myportal`

39. If advance configuration mode was selected, update/verify the Profile Name

Profile name = _____

Example (default): `wp_profile`

40. If advance configuration mode was selected, update/verify the Profile Starting port number

Starting Port = _____

Example (default): `10012`

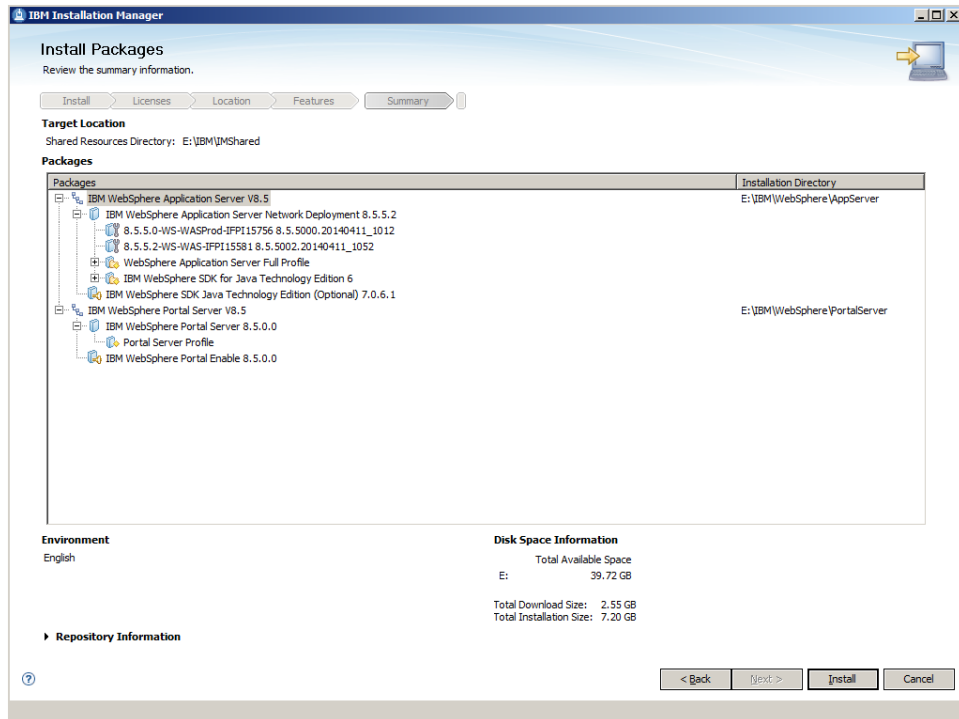
41. If advance configuration mode was selected, update/verify the Profile path

Profile path = _____

Example:

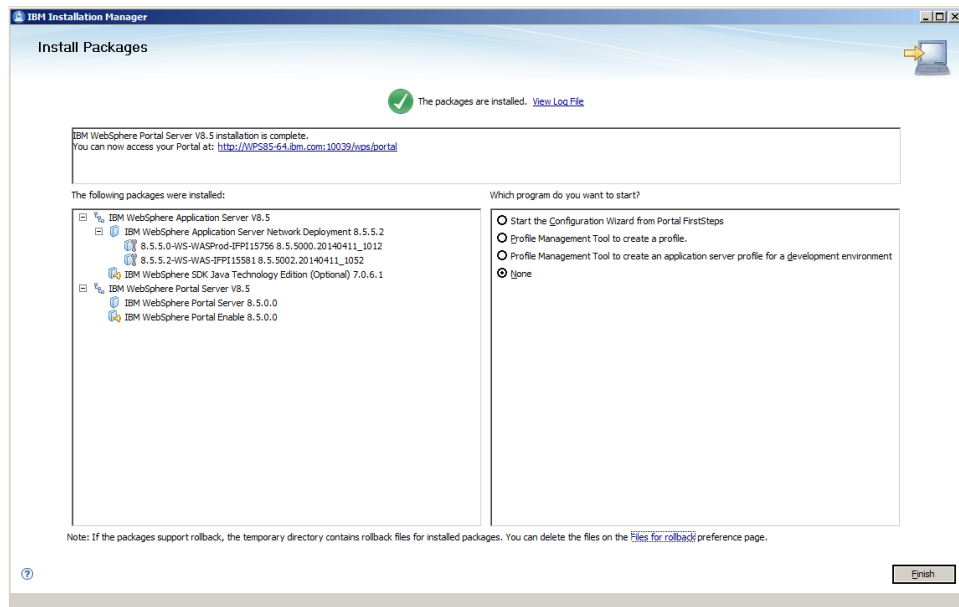
WIN	E:\IBM\WebSphere\wp_profile
UNIX	/opt/IBM/WebSphere/wp_profile

42. Click **Next**



43. Verify the summary information before installing

44. Click **Install** if the information is correct, otherwise, click **Back** and fix the problem before continuing.



45. The WebSphere Portal URL is located on the top panel. Save the URL for future references.

PORTAL_URL = _____

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

46. Click **Finish**

7 Ports

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

7.1 WebSphere Portal

1. Login to the WebSphere Portal file system
2. Change 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 to create a file that list the ports for the WebSphere Portal server (WebSphere_Portal_PortMatrix.txt)

```
ConfigEngine.(sh/bat) list-server-ports -DWasPassword=<WASPWD>
```

4. Change to the ConfigEngine's **log** directory of the WebSphere Portal profile

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

Example:

```
WIN      E:\IBM\WebSphere\wp_profile\ConfigEngine\log
UNIX     /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: 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: 10041
```

7.2 Configuration Wizard

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

```
<CW_PROFILE>/ConfigEngine
```

Example:

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

```
ConfigEngine.(sh/bat) list-server-ports -DWasPassword=<WASPWD>
```

4. Change to the ConfigEngine's **log** directory of the Configuration Wizard profile

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

Example:

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

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

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: 10200

8 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

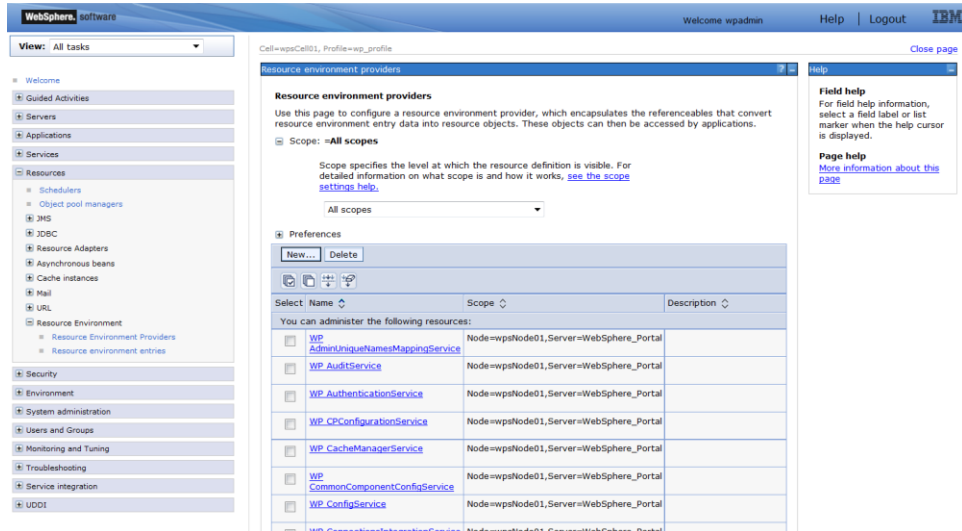
```
http://<HOSTNAME>:<WC_adminhost>/ibm/console  
https://<HOSTNAME>:<WC_adminhost_secure>/ibm/console
```

Example:

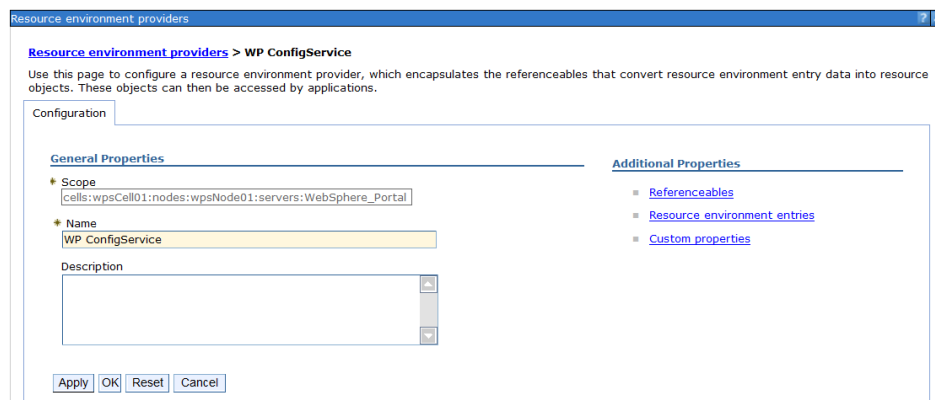
```
http://wps85-64.ibm.com:10038/ibm/console  
https://wps85-64.ibm.com:10041/ibm/console
```

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

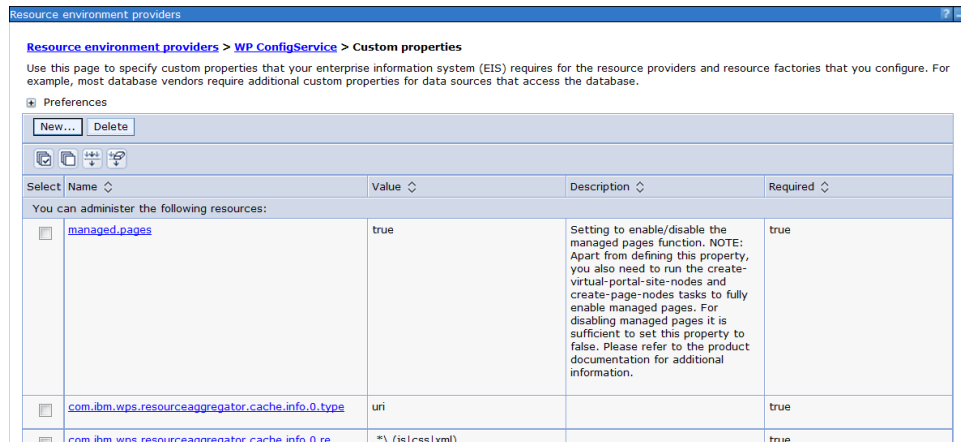
Example: wpadmin/passw0rd



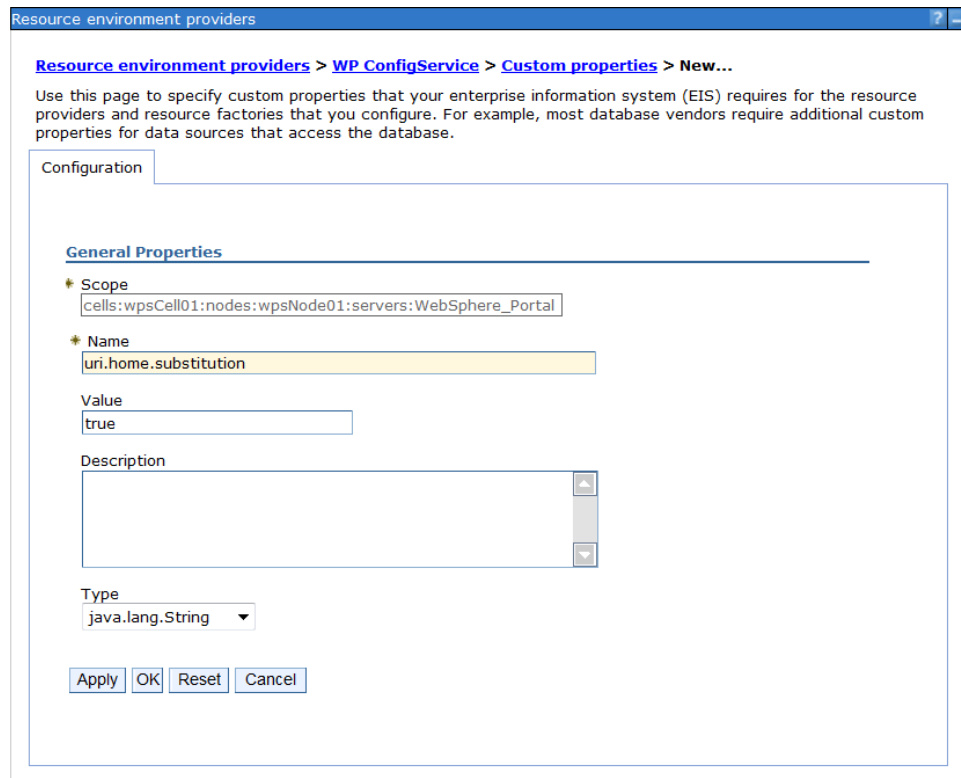
3. Navigate to Resources > Resource Environment > Resource Environment Providers
4. Click **WP ConfigService**



5. Under **Additional Properties**, click **Custom properties**



6. Click New

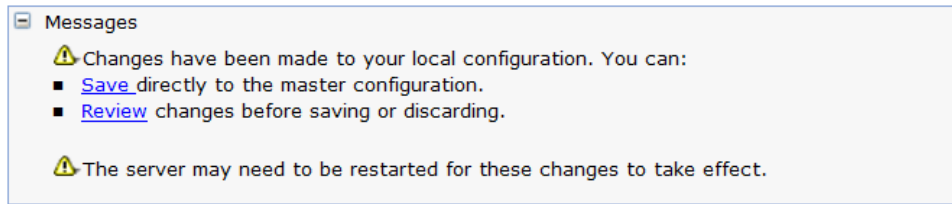


7. Fill in the following information

Name: uri.home.substitution

Value: true

8. Click OK

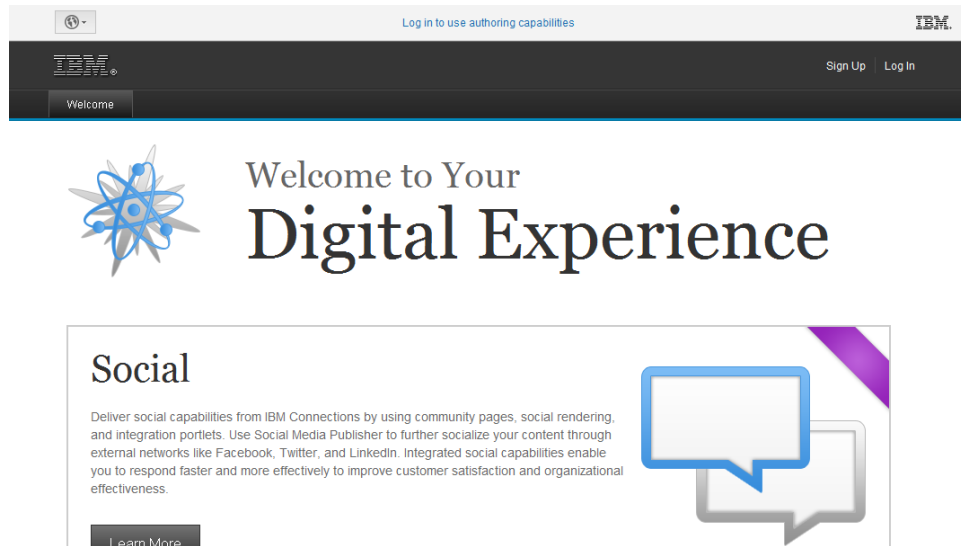


9. Click [Save](#) to save to the master configuration

10. Restart of the WebSphere Portal JVM for the changes to take effect

9 Validate

9.1 WebSphere Portal Server URL



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

`http://<HOSTNAME>:<PORT>/<CONTEXTROOT>/<DEFAULTHOME_URI>`

Example:

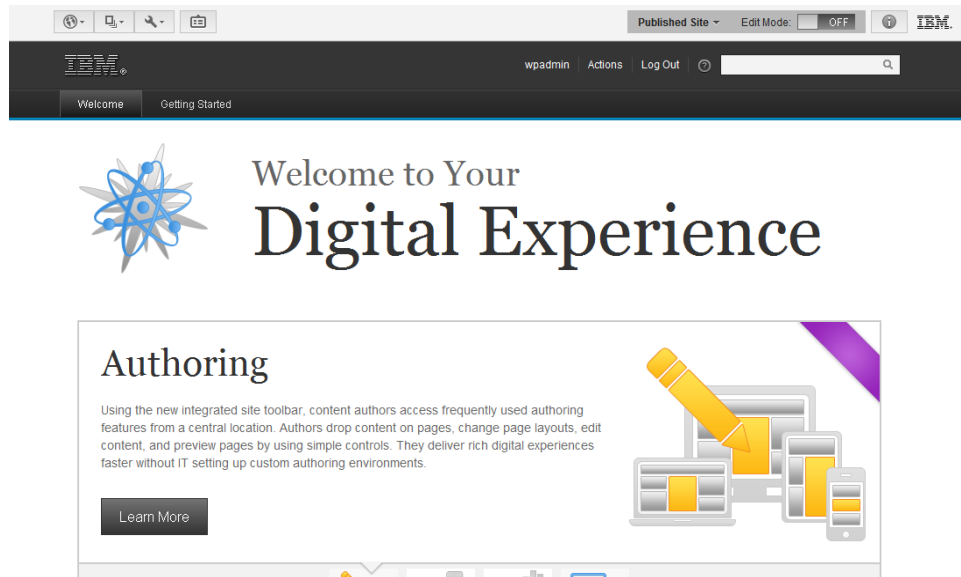
<http://wps85-64.ibm.com:10039/wps/portal>

2. Click **Log In**

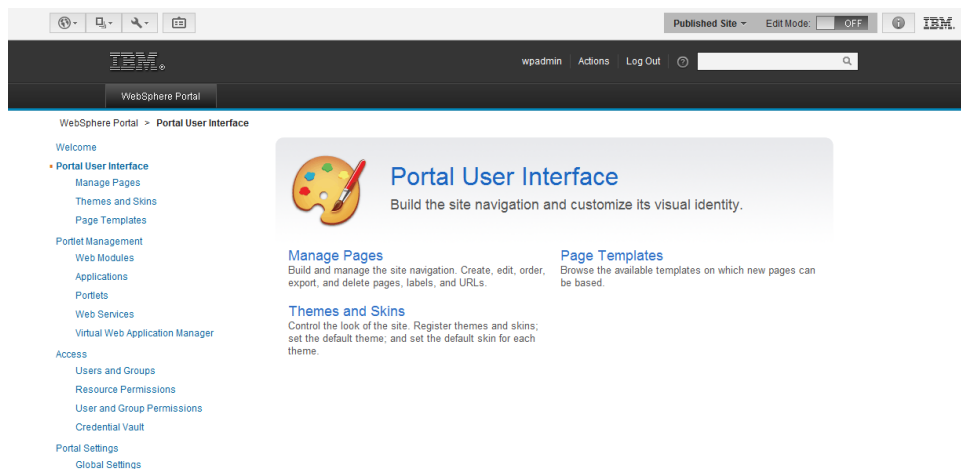
A screenshot of the WebSphere Portal login page. The top navigation bar is identical to the previous screenshot. The main content area features a central login form titled 'Log in with your Portal account'. The form contains two input fields: 'User ID:' with the value 'wpadmin' and 'Password:' with masked characters '*****'. Below the fields are 'Log in' and 'Cancel' buttons. At the bottom of the form, it says 'Not registered? Sign up'. The footer of the page is divided into two columns: 'Help' (with links to Product documentation, Product wiki, Media gallery, and WebSphere Portal Zone) and 'Support' (with links to Support page, Supported hardware and software, and IBM Software Support Guide).

3. Login with the WebSphere Portal Administrator User ID and password that was created during installation.

Example: wpadmin/passw0rd



4. Click the “Open the administration menu” icon

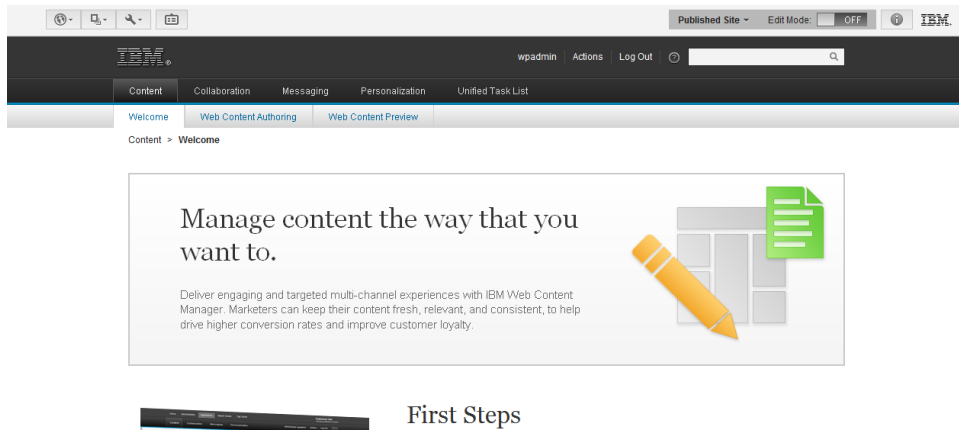


5. On the drop down, click on **Portal User Interface** to open the Portal administration page

6. Click the “Open the applications menu” icon



7. On the drop down, click **content**



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

9.2 Configuration Wizard URL

1. Login to the WebSphere Portal file system
2. Open a browser and set the URL to the Configuration Wizard URL

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

Example:

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


Log in with the Configuration Wizard administrator credentials

User ID:

Password:

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

Example: `cwadmin/passw0rd`


cwadmin | Log Out

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 stand-alone servers](#) and select the roadmap that best matches your needs.

Set Up a Cluster

Set up either a dynamic or static cluster to use for production sites. For guidance, see [Roadmaps for clusters](#).

Add On New Capability

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

Migrate to a New Version

Migrate either a stand-alone server or cluster to a new version. For guidance, see [Roadmaps for migration](#) and select the roadmap that best matches your needs.

More Options

Select from utilities such as removing a portal profile and more.

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

9.3 WebSphere Portal JVM Process

9.3.1 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

```
<WP_PROFILE>/bin
```

Example:

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

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

```
startServer.(bat/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
```

9.3.2 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
`<WP_PROFILE>/bin`

Example:

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

```
stopServer.(bat/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.`

9.4 Configuration Wizard JVM

9.4.1 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
`<CW_PROFILE>/bin`

Example:

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

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

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

4. Wait for the following message on the prompt

```
Server server1 open for e-business; process id is <PROCESS ID>
```

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

9.4.2 Stop JVM Process

```
E:\IBM\WebSphere\AppServer\profiles\cw_profile\bin>stopServer.bat server1 -user cfgadmin -password passw0rd
ADMU0116I: Tool information is being logged in file
           E:\IBM\WebSphere\AppServer\profiles\cw_profile\logs\server1\stopServer.log
ADMU0128I: Starting tool with the cw_profile profile
ADMU3100I: Reading configuration for server: server1
ADMU3201I: Server stop request issued. Waiting for stop status.
ADMU4000I: Server server1 stop completed.
```

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

```
<CW_PROFILE>/bin
```

Example:

```
WIN      E:\IBM\WebSphere\AppServer\profiles\cw_profile\bin
UNIX     /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 <CFGPWD>
```

Example:

```
stopServer.(bat/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 What's Next

Most of the “What's Next” can be done either with the Configuration Wizard or manually.

- **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>