

WebSphere Portal 8

Static Cluster

Version 2

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1. Information

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.

With this document, you will understand the steps to setup a static cluster for WebSphere Portal 8.

This document assumes the WebSphere Portal 8 is already installed and configured to a supported database such as DB2, Oracle, or Microsoft SQL server.

Helpful Links: To use the link in this document, you must copy and paste them to the browser.

- WebSphere Portal V8.0 Infocenter - WIKI
<http://www-10.lotus.com/ldd/portalwiki.nsf/xpViewCategories.xsp?lookupName=IBM%20WebSphere%20Portal%208%20Product%20Documentation>
- WebSphere Portal V8.0 Infocenter - HTML
http://infolib.lotus.com/resources/portal/8.0.0/doc/en_us/PT800ACD001/index.html
- WebSphere Portal V8.0 detailed system requirements
<http://www-01.ibm.com/support/docview.wss?uid=swg27007791>
- WebSphere Portal Infocenter: Setting up a Cluster

Linux

http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=Setting_up_a_cluster_on_Linux_wp8&content=pdcontent

Windows

http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=Installing_on_Windows_wp8&content=pdcontent

AIX

<http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Port>

[al+8+Product+Documentation#action=openDocument&res_title=Setting_up_a_cluster_o
n_AIX_wp8&content=pdcontent](#)

Solaris

[http://www-
10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Port
al+8+Product+Documentation#action=openDocument&res_title=Installing_on_Solaris_
wp8&content=pdcontent](http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Port
al+8+Product+Documentation#action=openDocument&res_title=Installing_on_Solaris_
wp8&content=pdcontent)

The document was tested on Linux. All other platform information is here for help purposes only.

This document is not written or supported by IBM Support.

Name	Date	Version	Description
Loc Dang	03/25/13	v1	Static Cluster
Loc Dang	04/05/13	v2	Update incorrect settings

Thank you Andy Yiu and Chun Chan for your help.

2. Delete Search Collection

http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=Removing_search_collections_on_Linux_wp8&content=pdcontent

If you plan to use search in a multi-node cluster, you must configure a remote search server. All search collections must be re-created. In a standalone or a single node cluster environment, you can skip this step until you decide to add additional nodes.

2.1 Disable jcr.textsearch

1. On the WebSphere Portal System, backup the icm.properties.

```
<WP_PROFILE>/PortalServer/jcr/lib/com/ibm/icm/icm.properties
```

Example:

```
UNIX      /opt/IBM/WebSphere/wp_profile/PortalServer/jcr/lib/com/ibm/icm/
                                                icm.properties
Windows  E:\IBM\WebSphere\wp_profile\PortalServer\jcr\lib\com\ibm\icm\
                                                icm.properties
```

NOTE: If you backup the icm.properties to the same directory, during startup you will receive an error message

2. Open the icm.properties with an editor
3. Update jcr.textsearch.enabled from true to false

```
Before: jcr.textsearch.enabled=true
After:  jcr.textsearch.enabled=false
```

4. Save icm.properties
5. Start/Restart the WebSphere Portal server for the changes to take effect.

2.2 Delete Search Collections

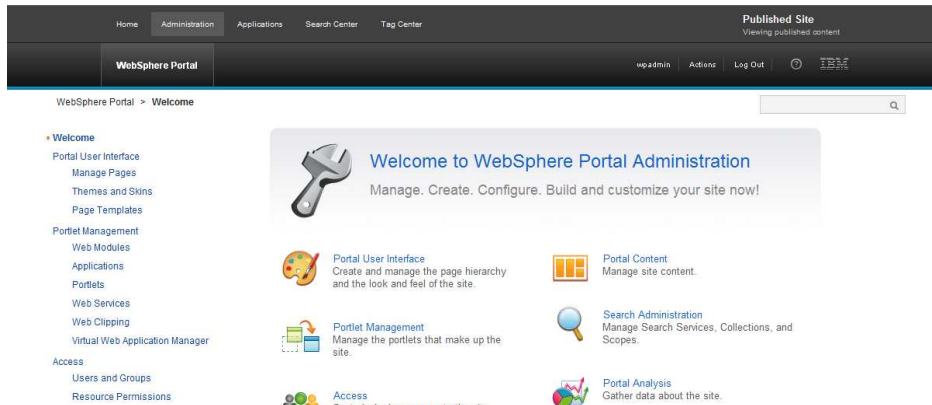
```
wps8:/opt/IBM/WebSphere/wp_profile/bin # ./startServer.sh WebSphere_Portal
ADMU0116I: Tool information is being logged in file
/opt/IBM/WebSphere/wp_profile/logs/WebSphere_Portal/startServer.log
ADMU0128I: Starting tool with the wp_profile profile
ADMU3100I: Reading configuration for server: WebSphere_Portal
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server WebSphere_Portal open for e-business; process id is 7565
wps8:/opt/IBM/WebSphere/wp_profile/bin #
```

1. Verify/Start the WebSphere Portal Server process

```
<WP_PROFILE>/startServer.(sh/bat) WebSphere_Portal
```

Example:

```
UNIX      # /opt/IBM/WebSphere/wp_profile/bin/startServer.sh
WebSphere_Portal
Windows  # E:\IBM\WebSphere\wp_profile\bin\startServer.bat
WebSphere_Portal
```

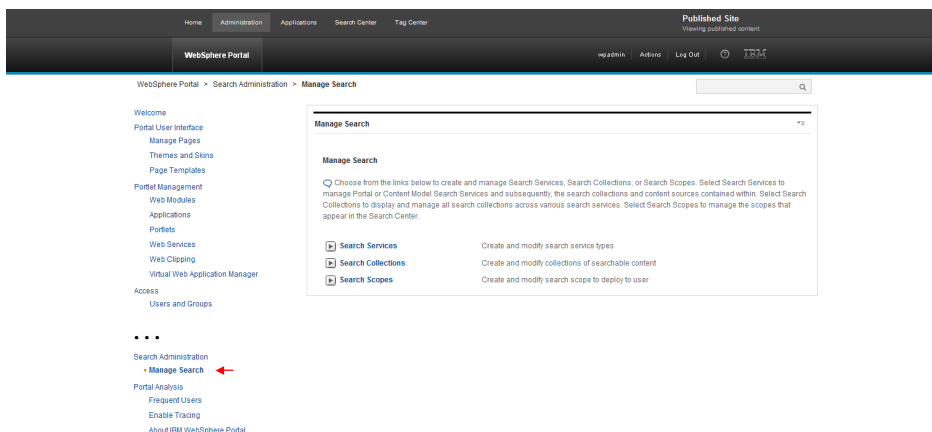


2. Through a Browser, login to the WebSphere Portal Administrative Console

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

Example:

```
http://wps8.ibm.com:10039/wps/myportal/Administration
```



3. Navigate to Search Administration > Manage Search

4. Click Search Collections

Manage Search

[Manage Search](#) > [Collections from All Services](#) > Default Search Collection

Search service: **Default Search Service** Search collection: **Default Search Collection**

Content Sources

Use the icons and buttons below to create a content source, refresh the content source information, view schedulers, start and stop crawling, verify the URL address of a content source, edit a content source, and delete a content source. **Scopes that reference this collection and its content sources can return different results.**

New Content Source Refresh

Content Source Name	Documents	Run Time	Last Run	Next Run	Status	
WCM Content Source	0	0		Jan 13, 2013, 03:00 EDT	Idle	
Portal Content Source	0	0		Jan 13, 2013, 02:00 EDT	Idle	

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Search collection status information

Search collection name: Default Search Collection

5. Delete All Search Collections

Manage Search

[Manage Search](#) > [Collections from All Services](#) > Default Search Collection

Search service: **Default Search Service** Search collection: **Default Search Collection**

Content Sources

Use the icons and buttons below to create a content source, refresh the content source information, view schedulers, start and stop crawling, verify the URL address of a content source, edit a content source, and delete a content source. **Scopes that reference this collection and its content sources can return different results.**

New Content Source Refresh

Content Source Name	Documents	Run Time	Last Run	Next Run	Status
There are no entries to display.					

Search collection status information

Search collection name: Default Search Collection

6. Verify that All Search Collections have been deleted

3. Create the WebSphere Portal profile Template

http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=Creating the WebSphere Portal profile template on Linux in a clustered environment wp8&content=pdcontent

After installing the primary node and configuring your remote database, you can create the configuration archive (CAR) file that you can use to create additional IBM® WebSphere® Portal profiles.

1. Open an xterm or command prompt on the WebSphere Portal system
2. On UNIX, if you installed WebSphere Portal as non-root, modify the permissions for the WebSphere Portal directory. You must stop the WebSphere Portal Server before running the command.

```
chmod -R u+rwX <WP_HOME>/
```

Example:

```
# chmod -R u+rwX /opt/IBM/WebSphere/PortalServer
```

3. Change to the ConfigEngine directory

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

Example:

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

4. Run the following command to enable profiles. The command creates a configuration archive (CAR) file that is used to create additional WebSphere Portal profiles.

```
ConfigEngine.(sh/bat) enable-profiles
```

NOTE: If the WasPassword is not set in the wkplc.properties, you must add the -DWasPassword=XXXX to the end of the command

Example:

```
UNIX # ./ConfigEngine.sh enable-profiles -DWasPassword=passw0rd
Windows # ConfigEngine.bat enable-profiles -DWasPassword=passw0rd
```

```
cleanup-config:
Mon Jan 14 12:40:16 EST 2013
    [echo] executing post-configuration tasks
BUILD SUCCESSFUL
isIseries currently set to: null

update-registry-sync-property:
Mon Jan 14 12:40:19 EST 2013
    [echo] updated RegistrySynchronized in file wkplc.properties with value: true
wps8:/opt/IBM/WebSphere/wp_profile/ConfigEngine #
```

5. Verify the command returns a BUILD SUCCESSFUL before continuing
6. Run the following command to package the profile. This will compress the profileTemplates directory and create a profileTemplates.zip file.


```
ConfigEngine.(sh/bat) package-profiles
```

Example:

```
UNIX      # ./ConfigEngine.sh package-profiles
Windows   # ConfigEngine.bat package-profiles
```

NOTE: If the WasPassword is not set in the wkplc.properties, you must add the -DWasPassword=XXXX to the end of the command

Example:

```
UNIX      # ./ConfigEngine.sh package-profiles -DWasPassword=passw0rd
Windows   # ConfigEngine.bat package-profiles -DWasPassword=passw0rd
```

```
cleanup-config:
Mon Jan 14 12:48:32 EST 2013
    [echo] executing post-configuration tasks
BUILD SUCCESSFUL
isIseries currently set to: null

update-registry-sync-property:
Mon Jan 14 12:48:35 EST 2013
    [echo] updated RegistrySynchronized in file wkplc.properties with value: true
wps8:/opt/IBM/WebSphere/wp_profile/ConfigEngine #
```

7. Verify the command returns a BUILD SUCCESSFUL before continuing
8. On UNIX, if you installed WebSphere Portal as non-root, restore the WebSphere Portal directory back to its original permission. You must stop the WebSphere Portal Server before running the command.

```
chmod -R u+rx <WP_HOME>
```

Example:

```
# chmod -R u+rx /opt/IBM/WebSphere/PortalServer
```

4. Deployment Manager Profile

http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=Creating_and_augmenting_a_new_Deployment_Manager_profile_on_Linux_wp8&content=pdcontent

4.1 Create Deployment Manager Profile

The Deployment Manager profile can be created on the same WebSphere Application Server binaries as the WebSphere Portal Server. The instructions in this section can be used for either scenario but the WebSphere Application binaries must already have been installed.

1. Open an xterm or command prompt on the Deployment Manager system
2. Change to the bin directory of the WebSphere Application Server home

```
cd <WAS_HOME>/bin/
```

Example:

```
UNIX # cd /opt/IBM/WebSphere/AppServer/bin/
Windows # cd E:\IBM\WebSphere\AppServer\bin\
```

3. Run the following command to create the DMGR profile.

```
manageprofiles.(sh/bat) -create
-templatePath <PROFILE_TEMPLATE>/management
-hostName DMGR_HOSTNAME
-profileName DMGR_PROFILE_NAME
-profilePath DMGR_PROFILE_PATH
-enableAdminSecurity true
-adminUserName DMGR_ADMIN
-adminPassword DMGR_PASSWORD
```

Example for Unix:

```
manageprofiles.sh -create
-templatePath /opt/IBM/WebSphere/AppServer/profileTemplates/management
-hostName wps8.ibm.com
-profileName Dmgr01
-profilePath /opt/IBM/WebSphere/AppServer/profiles/Dmgr01
-enableAdminSecurity true
-adminUserName wpsadmin
-adminPassword passw0rd
```

Example for Windows:

```
manageprofiles.bat -create
-templatePath E:\IBM\WebSphere\AppServer\profileTemplates\management
-hostName wps8.ibm.com
-profileName Dmgr01
-profilePath E:\IBM\WebSphere\AppServer\profiles\Dmgr01
-enableAdminSecurity true
-adminUserName wpsadmin
-adminPassword PASSWORD
```

NOTE: I usually make the DMGR username/password the same as the WebSphere Portal Administrative username/password. This can be changed after the cluster is complete.

```
wps8:/opt/IBM/WebSphere/AppServer/bin # ./manageprofiles.sh -create -templatePath /opt/IBM/WebSphere/
AppServer/profileTemplates/management -hostName wps8.ibm.com -profileName Dmgr01 -profilePath /opt/IB
M/WebSphere/AppServer/profiles/Dmgr01 -enableAdminSecurity true -adminUserName wpsadmin -adminPassword
passw0rd
INSTCONFSUCCESS: Success: Profile Dmgr01 now exists. Please consult /opt/IBM/WebSphere/AppServer/prof
iles/Dmgr01/logs/AboutThisProfile.txt for more information about this profile.
wps8:/opt/IBM/WebSphere/AppServer/bin #
```

4. Verify the command returns a Success message before continuing

4.2 Setup Deployment Manager Files

This step is only required if the Deployment Manager and the WebSphere Portal Server are not sharing the same WebSphere Application Server binaries.

1. Open an xterm or command prompt on the Deployment Manager system
2. Change to the WebSphere Application home directory <WAS_HOME>

Example:

```
UNIX    # cd /opt/IBM/WebSphere/AppServer
Windows # cd E:\IBM\WebSphere\AppServer
```

3. Create a directory name filesForDmgr

```
mkdir filesForDmgr
```

Example:

```
UNIX    # mkdir /opt/IBM/WebSphere/AppServer/filesForDmgr
Windows # mkdir E:\IBM\WebSphere\AppServer\filesForDmgr
```

4. Copy the WebSphere Portal filesForDmgr.zip to the newly created directory

```
From PORTAL:  <WP_HOME>/filesForDmgr/filesForDmgr.zip
To  DMGR:     <WAS_HOME>/filesForDmgr/filesForDmgr.zip
```

Example on Unix:

```
From PORTAL:  /opt/IBM/WebSphere/PortalServer/filesForDmgr/
                                                    filesForDmgr.zip
To  DMGR:     /opt/IBM/WebSphere/AppServer/filesForDmgr/
                                                    filesForDmgr.zip
```

Examples on Windows:

```
From PORTAL:  E:\IBM\WebSphere\PortalServer\filesForDmgr\
                                                    filesForDmgr.zip
To  DMGR:     E:\IBM\WebSphere\AppServer\filesForDmgr\filesForDmgr.zip
```

5. Unzip filesForDmgr.zip

```
# unzip filesForDmgr.zip
```

Example structure:

```
<WAS_HOME>/filesForDmgr/bin/..
<WAS_HOME>/filesForDmgr/filesForDmgr.zip
<WAS_HOME>/filesForDmgr/lib/..
<WAS_HOME>/filesForDmgr/plugins/..
<WAS_HOME>/filesForDmgr/profileTemplates/..
<WAS_HOME>/filesForDmgr/profiles/..
```

6. Copy the bin directory - recursive

```
From:  <WAS_HOME>/filesForDmgr/bin/
To:    <WAS_HOME>/bin/
```

Example UNIX:

```
From: /opt/IBM/WebSphere/AppServer/filesForDmgr/bin/
To: /opt/IBM/WebSphere/AppServer/bin/
```

Example Windows:

```
From: E:\IBM\WebSphere\AppServer\filesForDmgr\bin\
To: E:\IBM\WebSphere\AppServer\bin\
```

7. Copy the lib directory – recursive

```
From: <WAS_HOME>/filesForDmgr/lib/
To: <WAS_HOME>/lib/
```

Example UNIX:

```
From: /opt/IBM/WebSphere/AppServer/filesForDmgr/lib/
To: /opt/IBM/WebSphere/AppServer/lib/
```

Example Windows:

```
From: E:\IBM\WebSphere\AppServer\filesForDmgr\lib\
To: E:\IBM\WebSphere\AppServer\lib\
```

8. Copy the plugins directory - recursive

```
From: <WAS_HOME>/filesForDmgr/plugins/
To: <WAS_HOME>/plugins/
```

Example UNIX:

```
From: /opt/IBM/WebSphere/AppServer/filesForDmgr/plugins/
To: /opt/IBM/WebSphere/AppServer/plugins/
```

Example Windows:

```
From: E:\IBM\WebSphere\AppServer\filesForDmgr\plugins\
To: E:\IBM\WebSphere\AppServer\plugins\
```

9. Copy the profileTemplates directory - recursive

```
From: <WAS_HOME>/filesForDmgr/profileTemplates/
To: <WAS_HOME>/profileTemplates/
```

Example UNIX:

```
From: /opt/IBM/WebSphere/AppServer/filesForDmgr/profileTemplates/
To: /opt/IBM/WebSphere/AppServer/profileTemplates/
```

Example Windows:

```
From: E:\IBM\WebSphere\AppServer\filesForDmgr\profileTemplates\
To: E:\IBM\WebSphere\AppServer\profileTemplates\
```

10. Copy the config directory - recursive

```
From: <WAS_HOME>/filesForDmgr/profiles/Dmgr01/config/
```

```
To: <DMGR_PROFILE>/config/
```

Example UNIX:

```
From: /opt/IBM/WebSphere/AppServer/filesForDmgr/profiles/Dmgr01/  
config/  
To: /opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/
```

Example Windows:

```
From: E:\IBM\WebSphere\AppServer\filesForDmgr\profiles\Dmgr01\config/  
To: E:\IBM\WebSphere\AppServer\profiles\Dmgr01\config\
```

4.3 Augment Deployment Manager Profile

1. Open an xterm or command prompt on the Deployment Manager system
2. Change to the bin directory of the WebSphere Application Server home

```
cd <WAS_HOME>/bin/
```

Example:

```
UNIX # cd /opt/IBM/WebSphere/AppServer/bin/  
Windows # cd E:\IBM\WebSphere\AppServer\bin\
```

3. Run the following command to augment the Deployment Manager profile.

- Deployment Manager & WebSphere Portal Server not sharing the same environment
manageprofiles.(sh/bat) -augment
-templatePath <WAS_HOME>/profileTemplates/management.portal.augment
-profileName <DMGR_PROFILE_NAME>

Example for Unix:

```
./manageprofiles.sh -augment  
-templatePath /opt/IBM/WebSphere/AppServer/profileTemplates/  
management.portal.augment  
-profileName Dmgr01
```

Example for Windows:

```
manageprofiles.bat -augment  
-templatePath E:\IBM\WebSphere\AppServer\profileTemplates\  
management.portal.augment  
-profileName Dmgr01
```

- Deployment Manager & WebSphere Portal Server sharing the same environment
manageprofiles.(sh/bat) -augment
-templatePath <WP_HOME>/profileTemplates/management.portal.augment
-profileName <DMGR_PROFILE_NAME>

Example for Unix:

```
./manageprofiles.sh -augment  
-templatePath /opt/IBM/WebSphere/PortalServer/profileTemplates/  
management.portal.augment
```

```
-profileName Dmgr01
```

Example for Windows:

```
manageprofiles.bat -augment  
-templatePath E:\IBM\WebSphere\PortalServer\profileTemplates\  
management.portal.augment  
-profileName Dmgr01
```

```
wps8:/opt/IBM/WebSphere/AppServer/bin # ./manageprofiles.sh -augment -templatePath /opt/IBM/WebSphere  
/AppServer/profileTemplates/management.portal.augment -profileName Dmgr01  
INSTCONFSUCCESS: Profile augmentation succeeded.  
wps8:/opt/IBM/WebSphere/AppServer/bin #
```

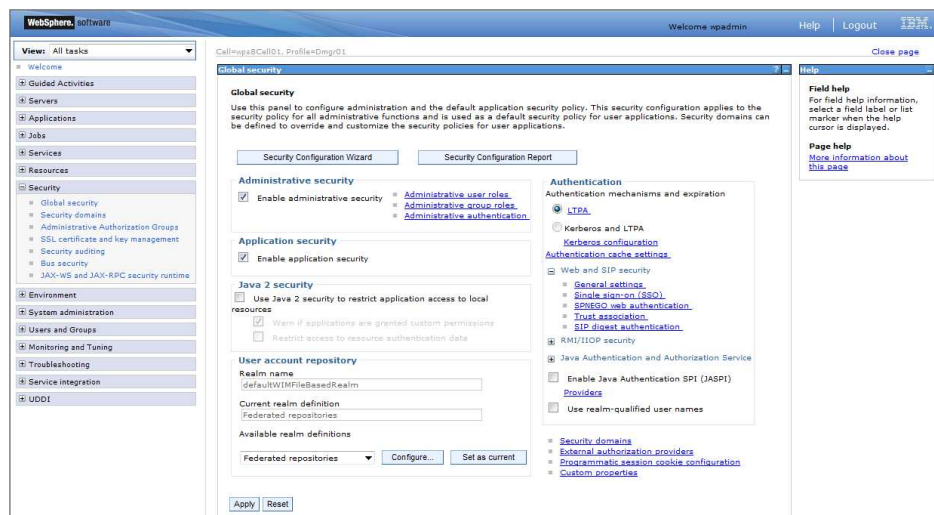
4. Verify the command returns a Success message before continuing.

4.4 Update Context Root

This section only needs to be done if you customized the context root of WebSphere Portal.

```
wps8:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin # ./startManager.sh  
ADMU0116I: Tool information is being logged in file  
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/startServer.log  
ADMU0128I: Starting tool with the Dmgr01 profile  
ADMU3100I: Reading configuration for server: dmgr  
ADMU3200I: Server launched. Waiting for initialization status.  
ADMU3000I: Server dmgr open for e-business; process id is 19114  
wps8:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin #
```

1. Start the Deployment Manager server



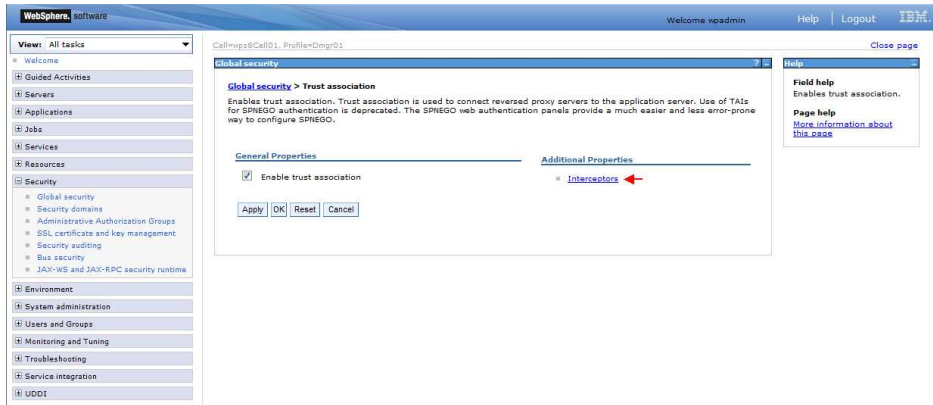
2. Through a browser, login to the Deployment Manager URL. Use the username and password that you set during creation of the profile.

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

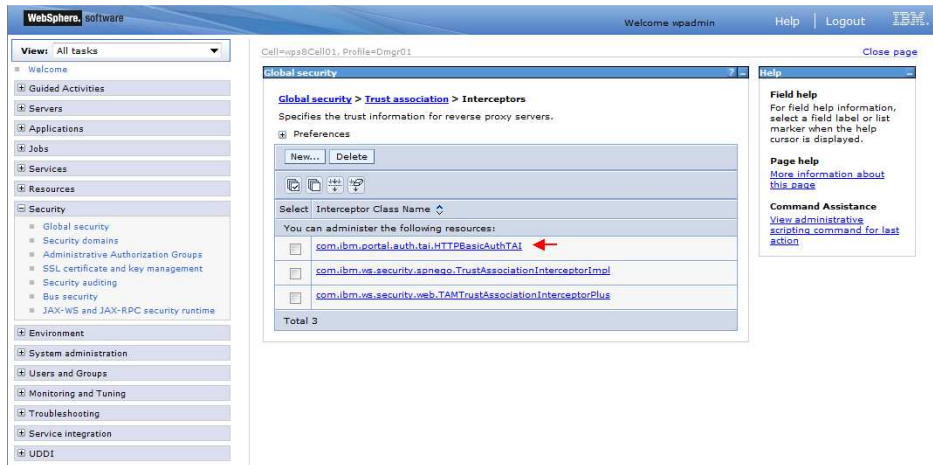
Example:

<http://wps8.ibm.com:9061/ibm/console>
<https://wps8.ibm.com:9044/ibm/console>

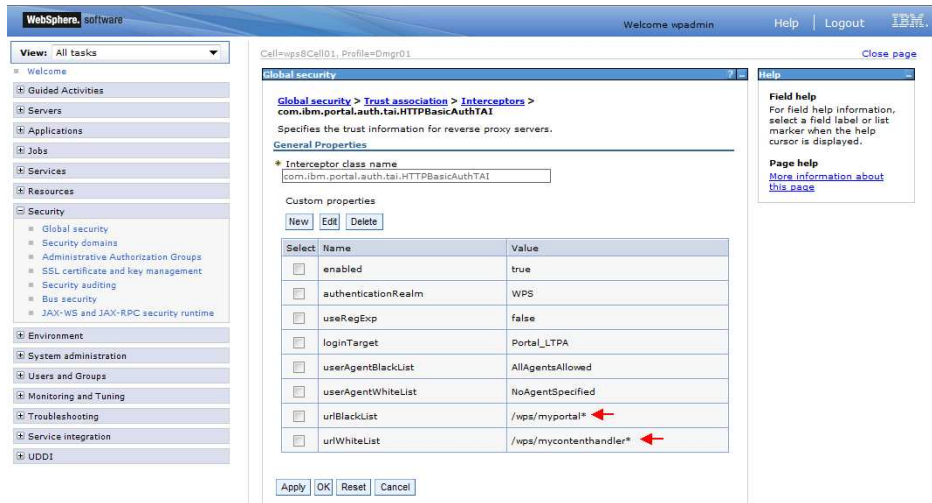
3. Navigate to Security > Global security
4. Under Web and SIP security, click on Trust association



5. Under Additional Properties, click Interceptors



6. Click com.ibm.portal.auth.tai.HTTPBasicAuthTAI



7. Verify/Edit the urlBlackList and urlWhiteList parameters with the new context path
8. If you did changes, save the changes to the master configuration
9. Start/restart the Deployment Manager for the changes to take effect.

5. WebSphere Portal Cluster

5.1 Prepare Cluster

```
wps8:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin # ./startManager.sh
ADMU0116I: Tool information is being logged in file
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/startServer.log
ADMU0128I: Starting tool with the Dmgr01 profile
ADMU3100I: Reading configuration for server: dmgr
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server dmgr open for e-business; process id is 19114
wps8:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin #
```

1. Start the Deployment Manager server
2. Open an xterm or command prompt on the WebSphere Portal system
3. Change to the bin directory of the WebSphere Portal profile

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

Example:

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


4. Run the following command to federate the WebSphere Portal node to the Deployment Manager

```
addNode.(sh/bat) DMGR_HOSTNAME DMGR_SOAP_PORT
               -includeapps
               -username DMGR_USER
               -password DMGR_PASSWORD
```

Example for Unix:

```
./addNode.sh wps8.ibm.com 8879
             -includeapps
             -username wpsadmin
             -password passw0rd
```

Example for Windows:

```
addNode.bat wps8.ibm.com 8879
            -includeapps
            -username wpsadmin
            -password passw0rd
```

Note: If the WebSphere Portal WAS Admin ID and password is different from the Deployment Manager, add the following parameters to the addNode task:

```
-localusername local_was_admin_user
-localpassword local_was_admin_password
```

Example for Unix:

```
./addNode.sh wps8.ibm.com 8879
             -includeapps
             -username dmgradm
             -password dmgrpwd
             -localusername wpsadmin
             -localpassword passw0rd
```

Example for Windows:

```
addNode.bat wps8.ibm.com 8879
            -includeapps
            -username dmgradm
            -password dmgrpwd
            -localusername wpsadmin
            -localpassword passw0rd
```

```

ADMU0022I: Node Agent launched. Waiting for initialization status.
ADMU0030I: Node Agent initialization completed successfully. Process id is:
          6604

ADMU0308I: The node Node1 and associated applications were successfully added
          to the wps8Cell101 cell.

ADMU0306I: Note:
ADMU0302I: Any cell-level documents from the standalone wps8Cell101
          configuration have not been migrated to the new cell.
ADMU0307I: You might want to:
ADMU0303I: Update the configuration on the wps8Cell101 Deployment Manager with
          values from the old cell-level documents.

ADMU0003I: Node Node1 has been successfully federated.
wps8:/opt/IBM/WebSphere/wp_profile/bin # █

```

5. Verify the command returns a success message

Node <NODENAME> has been successfully federated.

Example:

Node Node1 has been successfully federated.

```

wps8:/opt/IBM/WebSphere/wp_profile/bin # ./stopServer.sh WebSphere_Portal -username wpadmin
-password passw0rd
ADMU0116I: Tool information is being logged in file
          /opt/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.

wps8:/opt/IBM/WebSphere/wp_profile/bin # █

```

6. Stop the WebSphere Portal Server if it is running

7. Change to the properties directory of the ConfigEngine

cd <CONFIGENGINE>/properties

Example for Unix

```

UNIX # cd /opt/IBM/WebSphere/wp_profile/ConfigEngine/properties/
Windows # cd E:\IBM\WebSphere\wp_profile\ConfigEngine\properties\

```

8. Open wkplc.properties with an editor

9. Update the following variables

```

WasSoapPort : Deployment Manager SOAP port
WasRemoteHostName : Deployment Manager Host Name.
WasUserid : Deployment Manager Administrative Userid
WasPassword : Deployment Manager Administrative password
PortalAdminPwd : WebSphere Portal Administrative password
ClusterName : a name for the WebSphere Portal cluster (PortalCluster)
PrimaryNode : set to true if this is the primary node (true)

```

Example:

```
WasSoapPort : 8879
WasRemoteHostName : wps8.ibm.com
WasUserId : uid=wpadmin,o=defaultWIMFileBasedRealm
WasPassword : passw0rd
PortalAdminPwd : passw0rd
ClusterName : PortalCluster
PrimaryNode : true
```

10. Save wkplc.properties

5.2 Create Static Portal Cluster

```
wps8:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin # ./startManager.sh
ADMU0116I: Tool information is being logged in file
/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/logs/dmgr/startServer.log
ADMU0128I: Starting tool with the Dmgr01 profile
ADMU3100I: Reading configuration for server: dmgr
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server dmgr open for e-business; process id is 19114
wps8:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/bin #
```

1. Start the Deployment Manager server if not started
2. Start the nodeagent on the WebSphere Portal environment if not started
3. Open an xterm or command prompt on the WebSphere Portal system
4. Change to the ConfigEngine directory

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

Example

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

5. Run the following post federation command

```
# ConfigEngine.(sh/bat) cluster-node-config-post-federation
```

Example:

```
UNIX # ./ConfigEngine.sh cluster-node-config-post-federation
Windows # ConfigEngine.bat cluster-node-config-post-federation
```

```
cleanup-config:
Thu Jan 17 02:07:37 EST 2013
[echo] executing post-configuration tasks
BUILD SUCCESSFUL
isIseries currently set to: null

update-registry-sync-property:
Thu Jan 17 02:07:41 EST 2013
[echo] updated RegistrySynchronized in file wkplc.properties with value: true
wps8:/opt/IBM/WebSphere/wp_profile/ConfigEngine #
```

6. Verify the command returns a BUILD SUCCESSFUL before continuing

7. Run the following command to set the WebSphere Portal Administrator

```
ConfigEngine.(sh/bat) wp-change-portal-admin-user
-DWasPassword=DMGR_PWD
-DnewAdminId=PORTAL_ADMIN
-DnewAdminPw=PORTAL_PWD
-DnewAdminGroupId=PORTAL_ADMIN_GRP
```

Example for Unix:

```
./ConfigEngine.sh wp-change-portal-admin-user
-DWasPassword=passw0rd
-DnewAdminId=uid=wpadmin,o=defaultWIMFileBasedRealm
-DnewAdminPw=passw0rd
-DnewAdminGroupId=cn=wpsadmins,o=defaultWIMFileBasedRealm
```

Example for Windows:

```
ConfigEngine.bat wp-change-portal-admin-user
-DWasPassword=passw0rd
-DnewAdminId=uid=wpadmin,o=defaultWIMFileBasedRealm
-DnewAdminPw=passw0rd
-DnewAdminGroupId=cn=wpsadmins,o=defaultWIMFileBasedRealm
```

```
cleanup-config:
Thu Jan 17 02:22:01 EST 2013
    [echo] executing post-configuration tasks
BUILD SUCCESSFUL
isIsSeries currently set to: null

update-registry-sync-property:
Thu Jan 17 02:22:07 EST 2013
    [echo] updated RegistrySynchronized in file wkplc.properties with value: true
wps8:/opt/IBM/WebSphere/wp_profile/ConfigEngine # []
```

8. Verify the command returns a BUILD SUCCESSFUL before continuing

9. Run the following post federation command

```
ConfigEngine.(sh/bat) cluster-node-config-cluster-setup
```

Example:

```
UNIX      # ./ConfigEngine.sh cluster-node-config-cluster-setup
Windows  # ConfigEngine.bat cluster-node-config-cluster-setup
```

NOTE: If the WasPassword is not set in the wkplc.properties, add
-DWasPassword=XXXX to the end of the command.

Example:

```
ConfigEngine.(sh/bat) cluster-node-config-cluster-setup
-DWasPassword=passw0rd
```

```

cleanup-config:
Wed Jan 16 21:19:56 EST 2013
    [echo] executing post-configuration tasks
BUILD SUCCESSFUL
isIseries currently set to: null

update-registry-sync-property:
Wed Jan 16 21:19:59 EST 2013
    [echo] updated RegistrySynchronized in file wkplc.properties with value: true
wps8:/opt/IBM/WebSphere/wp_profile/ConfigEngine # █

```

10. Verify the command returns a BUILD SUCCESSFUL before continuing

11. Restart all Process

- Stop Deployment Manager
- Stop node agent (WebSphere Portal)
- Stop WebSphere Portal (WebSphere_Portal)
- Start Deployment Manager
- Start node agent (WebSphere Portal)
- Start WebSphere_Portal (WebSphere_Portal)

6. Validation (optional)

6.1 WebSphere Portal URL

1. Verify/Start the WebSphere Portal Server

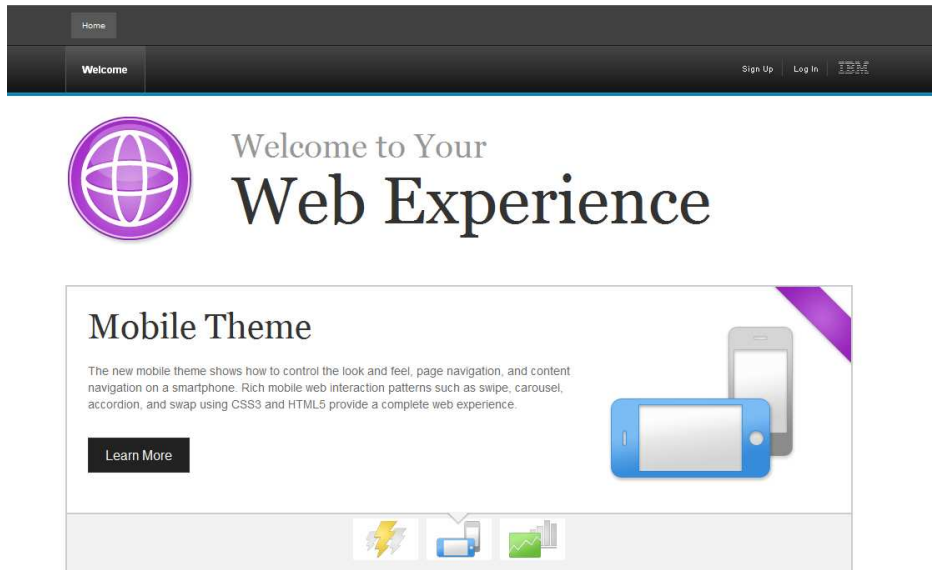
```
<WP_PROFILE>/bin/startServer.(sh/bat) WebSphere_Portal
```

Example:

```

UNIX      # /opt/IBM/WebSphere/wp_profile/bin/startServer.sh
                                           WebSphere_Portal
Windows # E:\IBM\WebSphere\wp_profile\bin\startServer.bat
                                           WebSphere_Portal

```



2. Open a browser and set the URL to the WebSphere Portal Server

`http://<HOSTNAME>:<PORT>/wps/portal/`

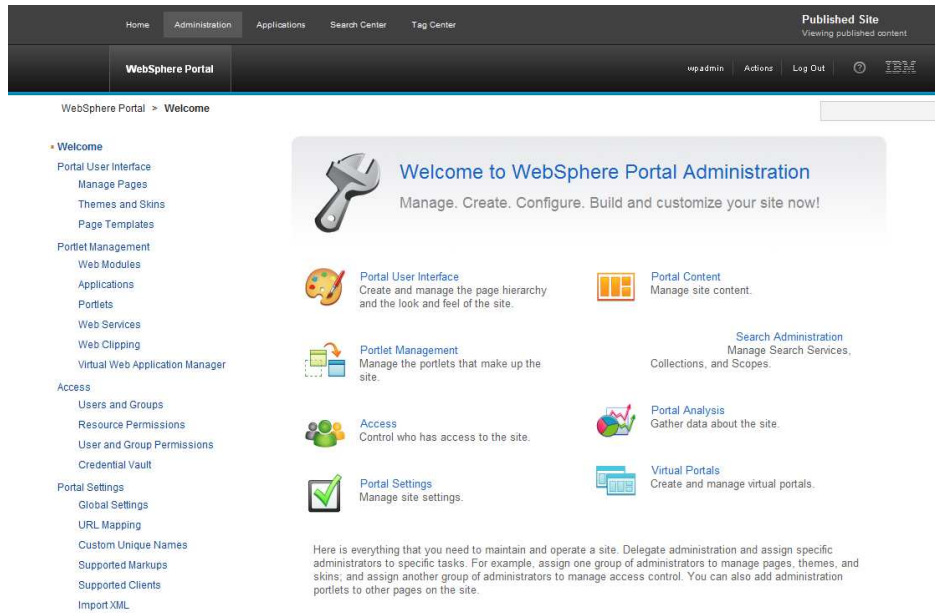
Example:

<http://wps8.ibm.com:10039/wps/portal/>

3. Click Login, and login as the WebSphere Portal Administrator



4. Click the Administration tab.



5. Verify you can see all the Administration functionality pages

6.2 Deployment Manager URL

1. Verify/Start the WebSphere Deployment Manager

```
<DMGR_PROFILE>/bin/startManager.(sh/bat)
```

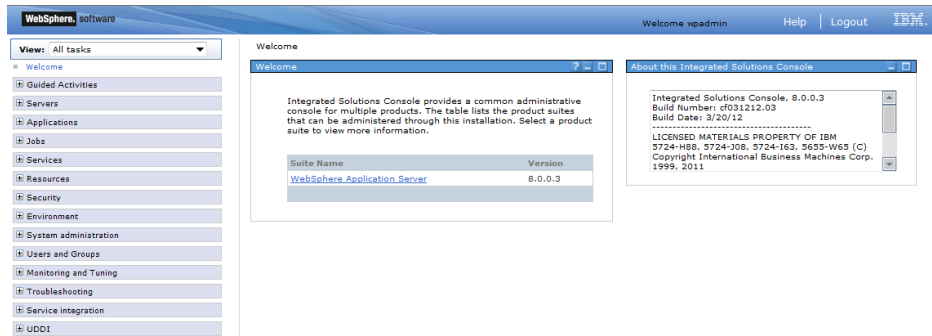
2. Open a browser and set the URL to the Deployment Manager console

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

Example:

```
http://wps8.ibm.com:9044/ibm/console
```

3. Login as the WebSphere Application Server administrator (Deployment Manager Administrator)



4. Verify you can see all the Administration functionality pages.

6.3 Stop WebSphere Portal Through DMGR

1. Verify/Start the WebSphere Deployment Manager

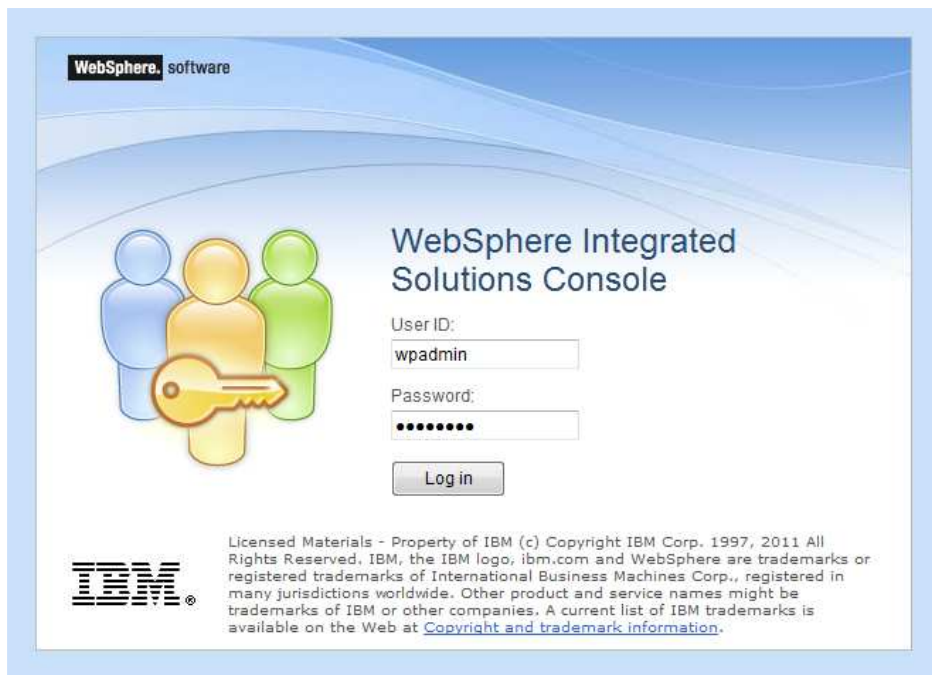
```
<DMGR_PROFILE>/bin/startManager.(sh/bat)
```

2. Open a browser and set the URL to the Deployment Manager console

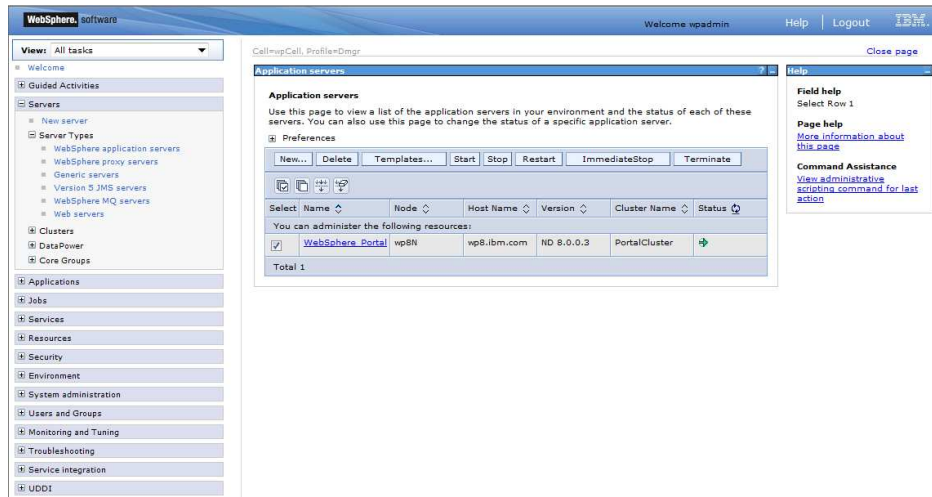
```
http://<HOSTNAME>:<PORT>/ibm/console
```

Example:

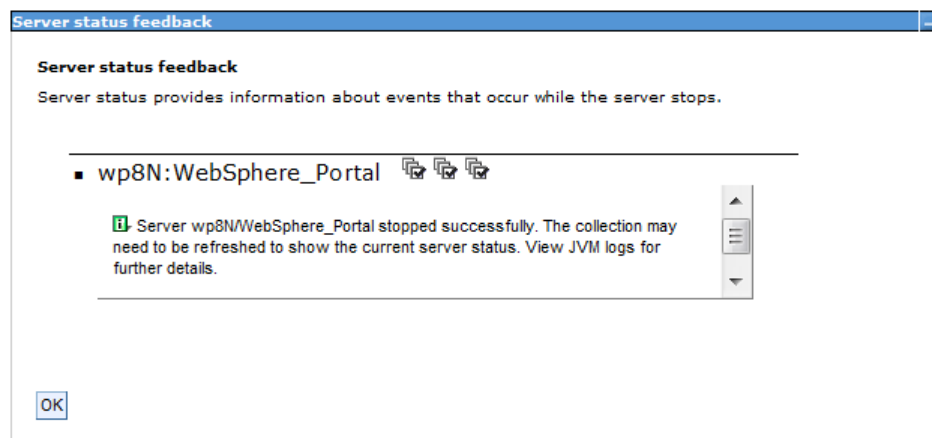
```
http://wps8.ibm.com:9044/ibm/console
```



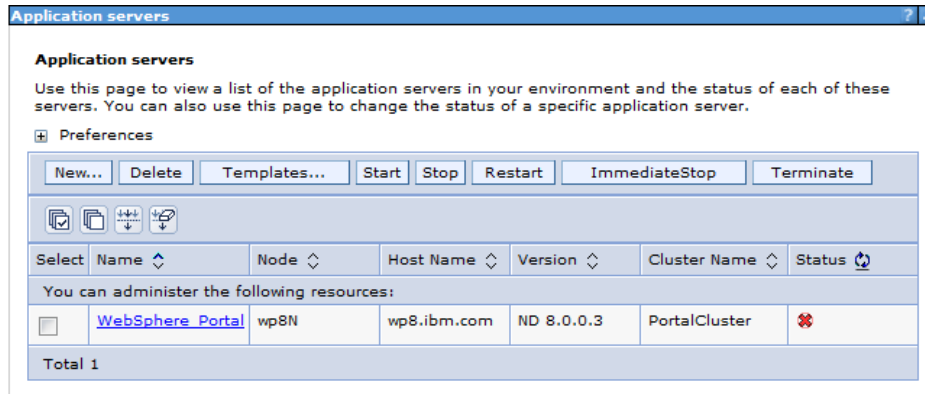
3. Login as the WebSphere Application Server administrator (Deployment Manager Administrator)



4. Navigate to Servers > Server Types > WebSphere application servers
5. Check the checkbox by WebSphere_Portal
6. Click Stop
7. Click OK to stop the server



8. When the server stops, you will see a stopped successfully message
9. Click OK



10. Verify the status icon is now red

6.4 Start WebSphere Portal Through DMGR

1. Verify/Start the WebSphere Deployment Manager

```
<DMGR_PROFILE>/bin/startManager.(sh/bat)
```

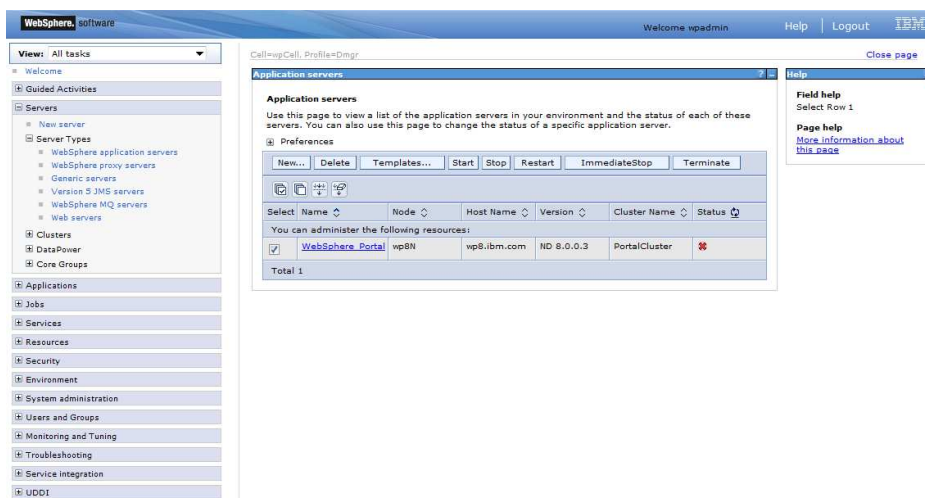
2. Open a browser and set the URL to the Deployment Manager console

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

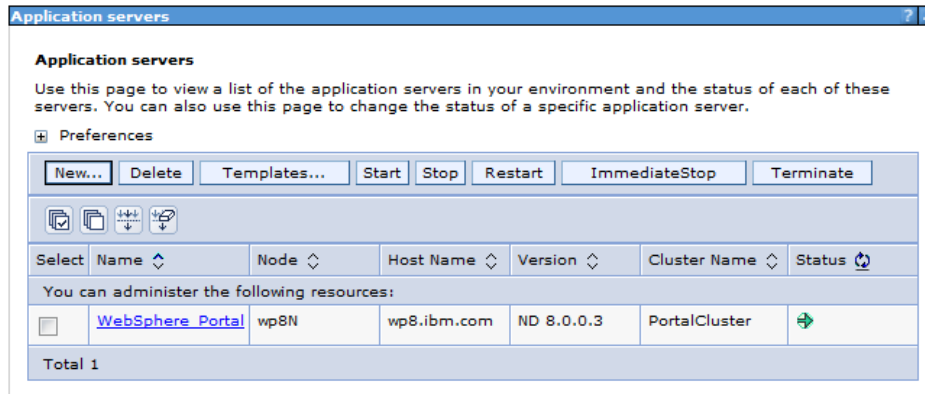
Example:

```
http://wps8.ibm.com:9044/ibm/console
```

3. Login as the WebSphere Application Server administrator (Deployment Manager Administrator)



4. Navigate to Servers > Server Types > WebSphere application servers
5. Check the checkbox by WebSphere_Portal
6. Click Start



7. When the server starts, verify the green icon turns green.