

WebSphere Portal 8.5



Static Cluster - Manual

Table of Content

1	Information	3
2	Pre-requisite	4
3	WebSphere Portal Profile Template	5
4	Deployment Manager Profile.....	6
4.1	Create Deployment Manager Profile.....	6
4.2	Setup Deployment Manager Files (Remote DMGR Only).....	7
4.3	Augment Deployment Manager Profile	9
4.4	Create WebSphere Portal Administrator (Different Administrator Only)	11
5	WebSphere Portal Cluster.....	14
5.1	Backup Properties File	14
5.2	Add Node	14
5.2.1	Update wkplc.properties	14
5.2.2	ConfigEngine Script.....	15
5.3	Post Federation.....	16
5.3.1	Update wkplc.properties	16
5.3.2	Update wkplc_dbdomain.properties	17
5.3.3	ConfigEngine Script.....	17
5.4	Create Static Portal Cluster	18
5.4.1	Update wkplc.properties	18
5.4.2	ConfigEngine Script.....	19
6	Validate	20
6.1	Cluster Member.....	20
6.2	Stop Cluster	21
6.3	Start Cluster.....	23
6.4	WebSphere Portal.....	26

1 Information

Clusters enable you to scale your IBM® WebSphere® Portal configuration. A cluster also gives the ability for the enterprise applications to be highly available because requests are automatically routed to the running servers in the event of a failure using a WebServer or Load balancer. 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 manually for a WebSphere Portal 8.5 configuration.

This document will follow the Configuration wizard steps but done manually. The Configuration wizard is the documented way in the WebSphere Portal Infocenter.

This document assumes the WebSphere Portal 8.5 has already been installed and configured to a supported external 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 a browser.

- 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>

This document is not written or supported by IBM Support

Name	Date	Version	Description
Loc Dang	01/09/15	V1	WebSphere Portal 8.5 Static Cluster

2 Pre-requisite

- The database transfer must be completed to a supported external database such as DB2, Oracle, or Microsoft SQL Server.
- If the Deployment Manager is on another system, the system clock must be less than 5 minutes apart.
- Verify all systems can communicate with each other.
- When communicating with other servers a firewall may be blocking specific ports. Verify the ports are available for communication

3 WebSphere Portal Profile Template

If this section was not done after the database transfer, this must be done now. The profile will be used for the creation of the profile for the additional nodes. Rerun the commands if unsure.

1. On the WebSphere Portal file system, open a command prompt
2. Change to the ConfigEngine directory

```
# cd <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 the WebSphere Portal profile template.

```
ConfigEngine.(bat/sh) enable-profiles-check-managed
```
4. Run the following command to package the WebSphere Portal profile template.

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

4 Deployment Manager Profile

4.1 Create Deployment Manager Profile

1. On the Deployment Manager file system, open a command prompt
2. Change to the bin directory of the WebSphere Application Server

```
<WAS_HOME>/bin
```

Example:

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

3. Run the following command on one line to create the Deployment Manager profile.

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

Example for Windows: DMGR and Portal on the **same** system

```
manageprofiles.bat -create
-hostName wps85-64.ibm.com
-adminUserName wpadmin
-adminPassword passw0rd
-enableAdminSecurity true
-cellName wpsCell11
-nodeName dmgrNode01
-profileName dmgr01
-templatePath E:\IBM\WebSphere\AppServer\profileTemplates\management
-profilePath E:\IBM\WebSphere\AppServer\profiles\dmgr01
```

Example for Unix: DMGR and Portal on the **same** system

```
manageprofiles.bat -create
-hostName wps85-64.ibm.com
-adminUserName wpadmin
-adminPassword passw0rd
-enableAdminSecurity true
-cellName wpsCell11
-nodeName dmgrNode01
-profileName dmgr01
-templatePath /opt/IBM/WebSphere/AppServer/profileTemplates/management
-profilePath /opt/IBM/WebSphere/AppServer/profiles/dmgr01
```

Example for Windows: DMGR and Portal on **different** system

```
manageprofiles.bat -create
-hostName mydmgr.ibm.com
-adminUserName wpadmin
-adminPassword passw0rd
-enableAdminSecurity true
-cellName wpsCell11
-nodeName dmgrNode01
-profileName dmgr01
-templatePath E:\IBM\WebSphere\AppServer\profileTemplates\management
-profilePath E:\IBM\WebSphere\AppServer\profiles\dmgr01
```

Example for Unix: DMGR and Portal on **different** system

```
manageprofiles.bat -create
-hostName mydmgr.ibm.com
-adminUserName wpadmin
-adminPassword passw0rd
-enableAdminSecurity true
-cellName wpsCell11
-nodeName dmgrNode01
-profileName dmgr01
-templatePath /opt/IBM/WebSphere/AppServer/profileTemplates/management
-profilePath /opt/IBM/WebSphere/AppServer/profiles/dmgr01
```

NOTE:

- It is recommended to set the Deployment Manager username/password the same as the WebSphere Portal WebSphere Application Server Administrative username/password.
- The difference between same system and different system example is the hostname.

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

```
INSTCONFSUCCESS: Success: Profile <PROFILE_NAME> now exists. Please
consult <PROFILE_PATH>/AboutThisProfile.txt for more information about
this profile.
```

4.2 Setup Deployment Manager Files (Remote DMGR Only)

If the Deployment Manager and the WebSphere Portal Server are on separate systems then this section needs to be completed.

1. Verify/Stop the Deployment Manager
2. Copy the **filesForDmgr.zip** from the WebSphere Portal Server to a temporary location on the Deployment Manager

From WebSphere Portal:

```
<WP_HOME>/filesForDmgr/filesForDmgr.zip
```

To Deployment Manager:

```
<TEMP>/filesForDmgr.zip
```

Example: From WebSphere Portal:

```
WIN      E:\IBM\WebSphere\PortalServer\filesForDmgr\filesForDmgr.zip
UNIX     /opt/IBM/WebSphere/PortalServer/filesForDmgr/filesForDmgr.zip
```

Example: To Deployment Manager:

```
WIN      F:/temp/filesForDmgr.zip
UNIX     /opt/tmp/filesForDmgr.zip
```

3. On the Deployment Manager, extract **filesForDmgr.zip** to a temporary location

```
<TEMP>/bin/...
<TEMP>/lib/...
<TEMP>/plugins/...
<TEMP>/profiles/...
<TEMP>/profileTemplates/...
```

4. Copy the content of the bin directory of the filesForDmgr to the WebSphere Application Server home directory

From: <TEMP>/bin

To: <WAS_HOME>/bin

Example From:

```
WIN      F:\temp\bin
UNIX     /opt/tmp/bin
```

Example To:

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

5. Copy the content of the lib directory of the filesForDmgr to the WebSphere Application Server home directory

From: <TEMP>/lib

To: <WAS_HOME>/lib

Example From:

```
WIN      F:\temp\lib
UNIX     /opt/tmp/lib
```

Example To:

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

6. Copy the content of the plugins directory of the filesForDmgr to the WebSphere Application Server home directory

From: `<TEMP>/plugins`

To: `<WAS_HOME>/plugins`

Example From:

WIN `F:\temp\plugins`
UNIX `/opt/tmp/plugins`

Example To:

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

7. Copy the content of the profileTemplates of the filesForDmgr to the WebSphere Application Server home directory

From: `<TEMP>/profileTemplates`

To: `<WAS_HOME>/profileTemplates`

Example From:

WIN `F:\temp\profileTemplates`
UNIX `/opt/tmp/profileTemplates`

Example To:

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

8. Navigate to the profiles directory
9. Copy the content of the **dmgr01** directory to the Deployment Manager profile directory.

`<TEMP>/profiles/dmgr01`

To:

`<DMGR_PROFILE>`

Example From:

WIN `F:\temp\profiles\dmgr01`
UNIX `/opt/tmp/profiles/dmgr01`

Example To:

WIN `E:\IBM\WebSphere\AppServer\profiles\dmgr01`
UNIX `/opt/IBM/WebSphere/AppServer/profiles/dmgr01`

4.3 Augment Deployment Manager Profile

1. On the WebSphere Deployment Manager file system, open a command prompt

2. Change to the bin directory of the WebSphere Application Server

```
<WAS_HOME>/bin
```

Example:

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

3. Run the following command on a single line to augment the Deployment Manager profile.

```
manageprofiles.(sh/bat) -augment
-templatePath <PROFILE_TEMPLATES>/management.portal.augment
-profileName <DMGR_PROFILE>
```

Example: Windows with DMGR and Portal on the **same** server

```
manageprofiles.bat -augment
-templatePath E:\IBM\WebSphere\PortalServer\profileTemplates\
               management.portal.augment
-profileName dmgr01
```

Example: UNIX with DMGR and Portal on the **same** server

```
manageprofiles.sh -augment
-templatePath /opt/IBM/WebSphere/PortalServer/profileTemplates/
               management.portal.augment
-profileName dmgr01
```

Example: Windows with DMGR and Portal on the **different** server

```
manageprofiles.bat -augment
-templatePath E:\IBM\WebSphere\AppServer\profileTemplates\
               management.portal.augment
-profileName dmgr01
```

Example: UNIX with DMGR and Portal on the **different** server

```
manageprofiles.sh -augment
-templatePath /opt/IBM/WebSphere/AppServer/profileTemplates/
               management.portal.augment
-profileName dmgr01
```

NOTE:

- The difference between same system and different system example is the directory structure of the templatePath value.

4. Verify the success message

```
INSTCONFSUCCESS: Profile augmentation succeeded.
```

5. If the Deployment Manager is started, restart of the Deployment Manager is required for the changes to take effect.

4.4 Create WebSphere Portal Administrator (Different Administrator Only)

This section only needs to be completed if the Deployment Manager administrative user does not match the WebSphere Portal Server Administrative user.

1. Start the Deployment Manager

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

Example:

```
WIN    E:\IBM\WebSphere\AppServer\profiles\dmgr01\bin\startManager.bat
UNIX   /opt/IBM/WebSphere/AppServer/profiles/dmgr01/bin/startManager.sh
```

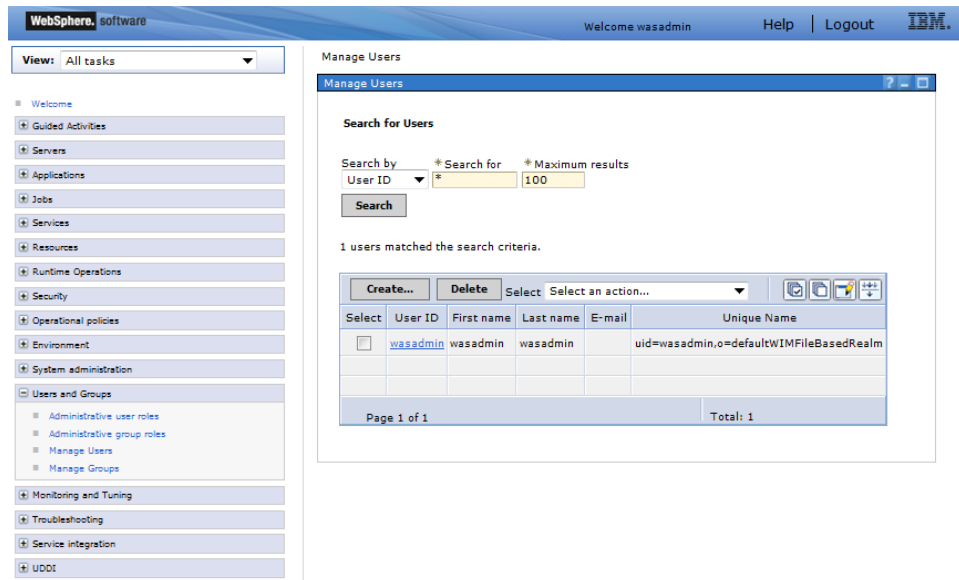


2. Open a browser and set the URL to the Deployment Manager console <https://<HOSTNAME>:<PORT>/ibm/console>

Example:

```
https://wps85-64.ibm.com:9043/ibm/console  
https://mydmgr.ibm.com:9043/ibm.console
```

3. Login as the WebSphere Application Server administrator



4. Navigate to Users and Groups > Manage Users
5. Click Create...

Manage Users

Manage Users

Create a User

* User ID
wpadmin

Group Membership

* First name
Portal

* Last name
Admin

E-mail
[Empty field]

* Password
[Masked password]

* Confirm password
[Masked password]

Create Cancel

6. Under User ID, enter the WebSphere Portal Administrator

WPADMIN: _____

Example: wpadmin

7. Under First name, enter the first name of the WebSphere Portal Administrator

FNAME: _____

Example: Portal

- Under Last name, enter the last name of the WebSphere Portal Administrator

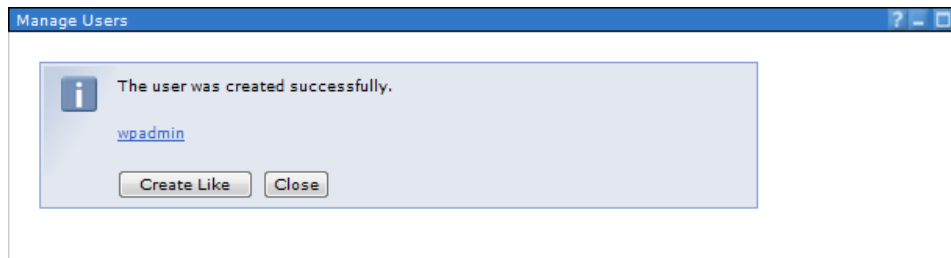
LNAME: _____

Example: Admin

- Under Password and Confirm password, enter the password for the WebSphere Portal Administrator

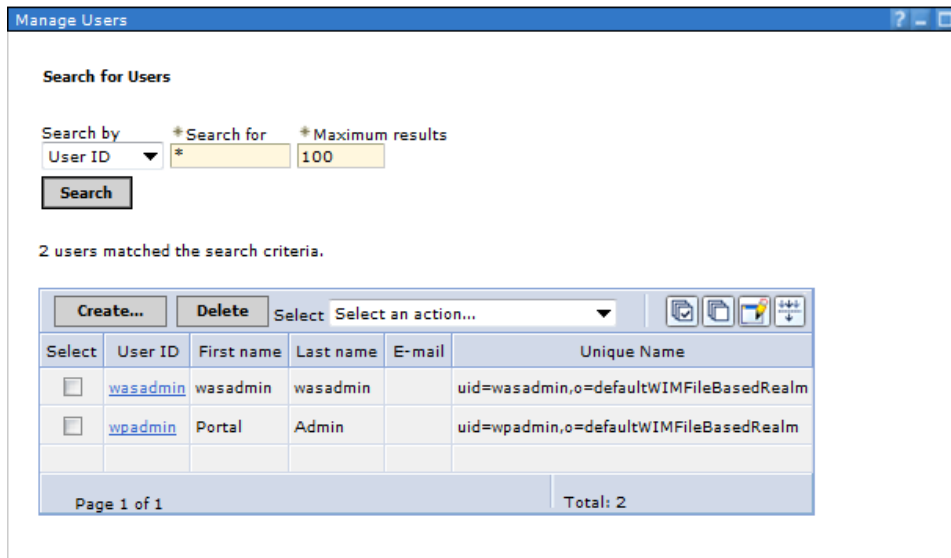
WPPWD: _____

- Click Create



- Verify the successfully message appears “The user was created successfully”

- Click Close



5 WebSphere Portal Cluster

5.1 Backup Properties File

1. On the WebSphere Portal file system, open a command prompt
2. Change to the ConfigEngine directory

```
# cd <wp_profile>/ConfigEngine
```

Example:

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

3. Run the following command to backup the properties file

```
ConfigEngine.(bat/sh) backup-property-files-for-dbxfer
```

Note: A dated directory will be created in the following ConfigEngine directory structure

```
<WP_PROFILE>/ConfigEngine/properties/backup/<TIME_STAMP>
```

Example:

```
WIN
E:\IBM\WebSphere\wp_profile\ConfigEngine\properties\
2014.08.22-14.09.17.731-0400

UNIX
/opt/IBM/WebSphere/wp_profile/ConfigEngine/properties/
2014.08.22-14.09.17.731-0400
```

5.2 Add Node

Before adding WebSphere Portal to a cluster, it must be added to the Deployment Manager

5.2.1 Update wkplc.properties

1. On the WebSphere Portal file system, open the **wkplc.properties** with an editor

```
<WP_PROFILE>/ConfigEngine/properties
```

Example:

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

2. Update the following variables

```
WasSoapPort = Deployment Manager SOAP Port.
WasRemoteHostName = Deployment Manager Hostname
WasUserid = Deployment Manager WebSphere Administrator user
```

```
WasPassword = Deployment Manager WebSphere Administrator password
```

Example: DMGR and Portal on the **same** server

```
WasSoapPort=8879  
WasRemoteHostName=wps85-64.ibm.com  
WasUserid=wpadmin  
WasPassword=passw0rd
```

Example: DMGR and Portal on **different** servers

```
WasSoapPort=8879  
WasRemoteHostName=mydmgr.ibm.com  
WasUserid=wpadmin  
WasPassword=passw0rd
```

3. Save **wkplc.properties**

5.2.2 ConfigEngine Script

13. Verify/Start the Deployment Manager

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

Example:

```
WIN      E:\IBM\WebSphere\AppServer\profiles\dmgr01\bin\startManager.bat  
UNIX     /opt/IBM/WebSphere/AppServer/profiles/dmgr01/bin/startManager.sh
```

14. On the WebSphere Portal file system, open a command prompt

15. Change to the ConfigEngine directory

```
<WP_PROFILE>/ConfigEngine
```

Example:

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

16. Run the following command on a single line to add the WebSphere Portal Server to the Deployment Manager

```
ConfigEngine.(sh/bat) add-node  
-DDmgrNodeName=<DMGR_NODENAME>  
-DDmgrCellName=<DMGR_CELLNAME>  
-DdmgrProfilePath=<DMGR_PROFILE>  
-DisRemoteDmgr=<false/true>
```

Example: Windows with DMGR and Portal on the **same** server

```
ConfigEngine.bat add-node  
-DDmgrNodeName=dmgrNode01  
-DDmgrCellName=wpsCell11  
-DdmgrProfilePath=E:\IBM\WebSphere\AppServer\profiles\dmgr01  
-DisRemoteDmgr=false
```

Example: UNIX with DMGR and Portal on the **same** server

```
ConfigEngine.sh add-node
-DDmgrNodeName=dmgrNode01
-DDmgrCellName=wpsCell11
-DDmgrProfilePath=/opt/IBM/WebSphere/AppServer/profiles/dmgr01
-DisRemoteDmgr=false
```

Example: Windows with DMGR and Portal on **different** server

```
ConfigEngine.bat add-node
-DDmgrNodeName=dmgrNode01
-DDmgrCellName=wpsCell01
-DDmgrProfilePath=E:\IBM\WebSphere\AppServer\profiles\dmgr01
-DisRemoteDmgr=true
```

Example: UNIX with DMGR and Portal on the **different** server

```
ConfigEngine.sh add-node
-DDmgrNodeName=dmgrNode01
-DDmgrCellName=wpsCell01
-DDmgrProfilePath=/opt/IBM/WebSphere/AppServer/profiles/dmgr01
-DisRemoteDmgr=true
```

NOTE:

- The difference between same system and different system example is the variable -DisRemoteDmgr.

5.3 Post Federation

5.3.1 Update wkplc.properties

1. On the WebSphere Portal file system, open the **wkplc.properties** with an editor

```
<WP_PROFILE>/ConfigEngine/properties
```

Example:

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

2. Verify/Update the following variables

```
WasSoapPort= Deployment Manager SOAP Port
WasRemoteHostName= Deployment Manager Hostname
WasUserId= Deployment Manager WebSphere Administrator user
WasPassword= Deployment Manager WebSphere Administrator password
PortalAdminId= WebSphere Portal Administrator user
PortalAdminPwd= WebSphere Portal Administrator password
Clustername= Name of the WebSphere Portal Cluster
PrimaryName= true
```

Example: DMGR and Portal on the **same** server

```
WasSoapPort=8879
WasRemoteHostName=wps85-64.ibm.com
WasUserId=wpadmin
WasPassword=passw0rd
```



```
PortalAdminId=wpadmin  
PortalAdminPwd=passw0rd  
Clustername=PortalCluster  
PrimaryName=true
```

Example: DMGR and Portal on **different** server

```
WasSoapPort=8879  
WasRemoteHostName=mydmgr.ibm.com  
WasUserid=wpadmin  
WasPassword=passw0rd  
PortalAdminId=wpadmin  
PortalAdminPwd=passw0rd  
Clustername=PortalCluster  
PrimaryName=true
```

NOTE:

- The difference between same system and different system example is the WasRemoteHostName value.

3. Save **wkplc.properties**

5.3.2 Update wkplc_dbdomain.properties

1. On the WebSphere Portal file system, open the **wkplc_dbdomain.properties** with an editor

```
<WP_PROFILE>/ConfigEngine/properties
```

Example:

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

2. Verify/Update the following variables

```
release.DbUser= release schema configuration user  
release.DbPassword= release schema configuration password
```

Example:

```
release.DbUser=cfgdbusr  
release.DbPassword=passw0rd
```

3. Save **wkplc_dbdomain.properties**

5.3.3 ConfigEngine Script

1. Verify/Start the Deployment Manager

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

Example:

```
WIN      E:\IBM\WebSphere\AppServer\profiles\dmgr01\bin\startManager.bat
```

```
UNIX    /opt/IBM/WebSphere/AppServer/profiles/dmgr01/bin/startManager.sh
```

2. Verify/Start the nodeagent on the WebSphere Portal file system

```
<WP_PROFILE>/bin/startNode. (bat/sh)
```

Example:

```
WIN      E:\IBM\WebSphere\wp_profile\bin\startNode.bat
UNIX     /opt/IBM/WebSphere/wp_profile/bin/startNode.sh
```

3. On the WebSphere Portal file system, open a command prompt

4. Change to the ConfigEngine directory

```
<WP_PROFILE>/ConfigEngine
```

Example:

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

5. Run the following command on a single line

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

5.4 Create Static Portal Cluster

5.4.1 Update wkplc.properties

1. On the WebSphere Portal file system, open the **wkplc.properties** with an editor

```
<WP_PROFILE>/ConfigEngine/properties
```

Example:

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

2. Verify/Update the following variables

```
WasRemoteHostName= Deployment Manager Hostname
WasUserId= Deployment Manager WebSphere Administrator user
WasPassword= Deployment Manager WebSphere Administrator password
PortalAdminId= WebSphere Portal Administrator user
PortalAdminPwd= WebSphere Portal Administrator password
ClusterName= Name of the WebSphere Portal Cluster
PrimaryNode= true
```

Example: DMGR and Portal on the **same** system

```
WasRemoteHostName=wps85-64.ibm.com
WasUserId=wpadmin
WasPassword=passw0rd
PortalAdminId=wpadmin
PortalAdminPwd=passw0rd
ClusterName=PortalCluster
PrimaryNode=true
```

Example: DMGR and Portal on **different** system

```
WasRemoteHostName=mydmgr.ibm.com
WasUserId=wpadmin
WasPassword=passw0rd
PortalAdminId=wpadmin
PortalAdminPwd=passw0rd
ClusterName=PortalCluster
PrimaryNode=true
```

3. Save **wkplc.properties**

5.4.2 ConfigEngine Script

1. Verify/Start the Deployment Manager

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

Example:

```
WIN      E:\IBM\WebSphere\AppServer\profiles\dmgr01\bin\startManager.bat
UNIX     /opt/IBM/WebSphere/AppServer/profiles/dmgr01/bin/startManager.sh
```

2. Verify/Start the nodeagent

```
<WP_PROFILE>/bin/startNode.(bat/sh)
```

Example:

```
WIN      E:\IBM\WebSphere\wp_profile\bin\startNode.bat
UNIX     /opt/IBM/WebSphere/wp_profile/bin/startNode.sh
```

3. On the WebSphere Portal file system, open a command prompt

4. Change to the ConfigEngine directory

```
<WP_PROFILE>/ConfigEngine
```

Example:

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

5. Run the following command on a single line

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

6 Validate

6.1 Cluster Member

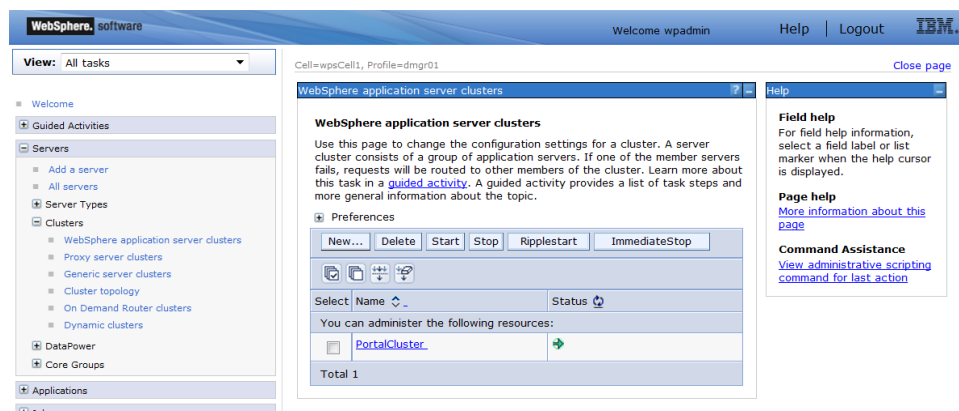


1. Open a browser and set the URL to the Deployment Manager console
<https://<HOSTNAME>:<PORT>/ibm/console>

Example:

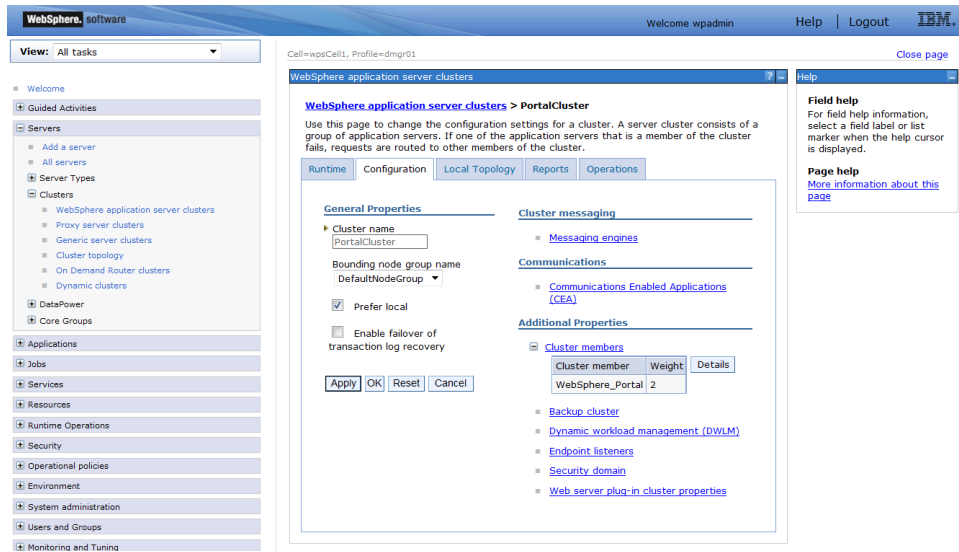
<https://wps85-64.ibm.com:9043/ibm/console>
<https://mydmgr.ibm.com:9043/ibm.console>

2. Login as the WebSphere Application Server administrator



3. Navigate to Servers > Clusters > WebSphere application server clusters

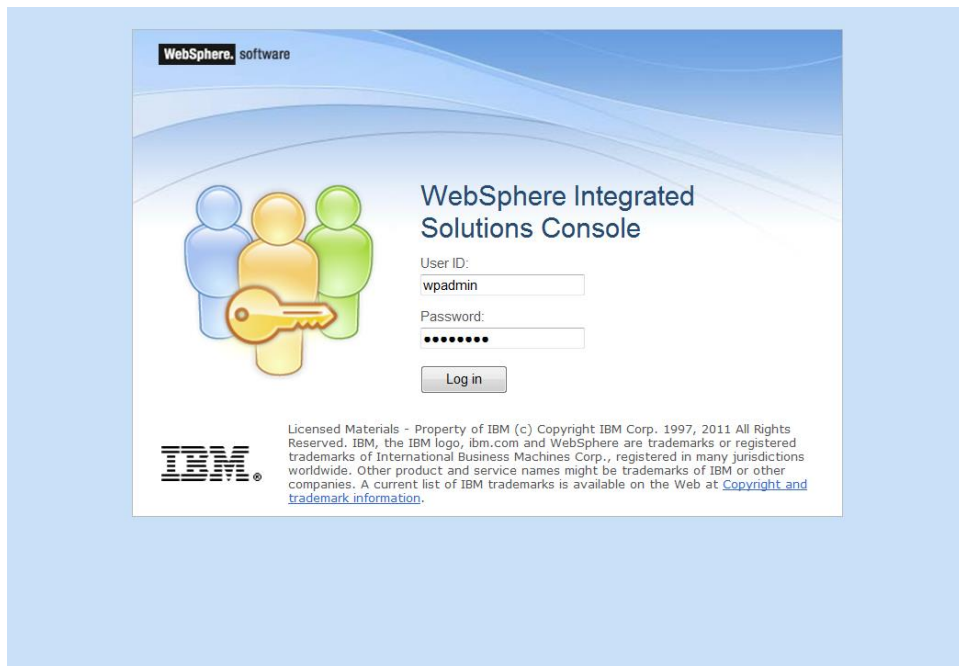
4. Click on the name of the WebSphere Portal Cluster (Portal Cluster)



5. Under Additional Properties, expand Cluster member

6. Verify “WebSphere_Portal” is under the Cluster member column

6.2 Stop Cluster



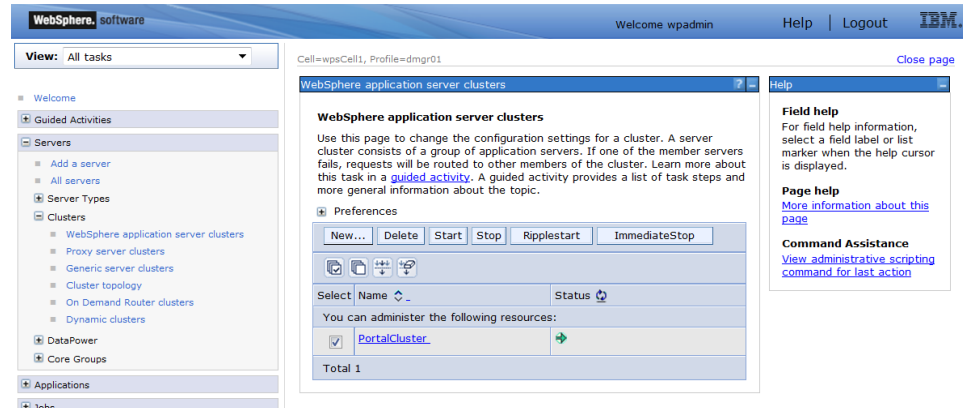
1. Open a browser and set the URL to the Deployment Manager console

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

Example:

<https://wps85-64.ibm.com:9043/ibm/console>
<https://mydmgr.ibm.com:9043/ibm/console>

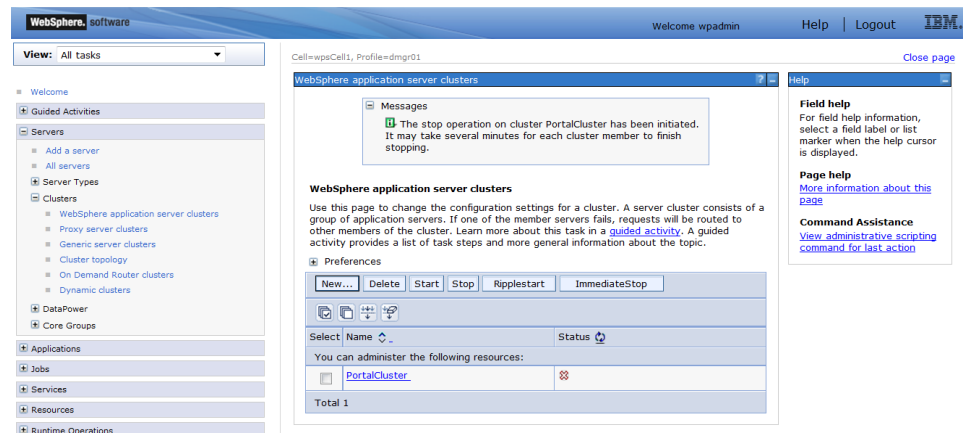
2. Login as the WebSphere Application Server administrator



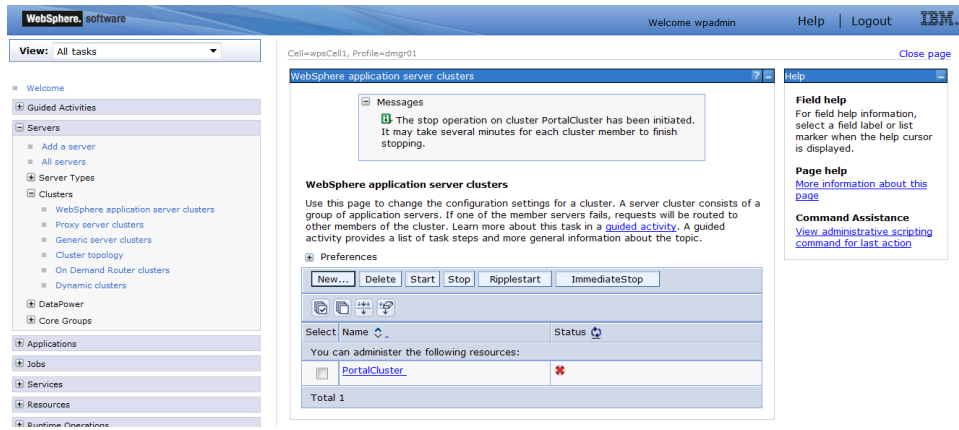
3. Navigate to Servers > Clusters > WebSphere application server clusters

4. Check the checkbox by the WebSphere Portal Cluster (Portal Cluster)

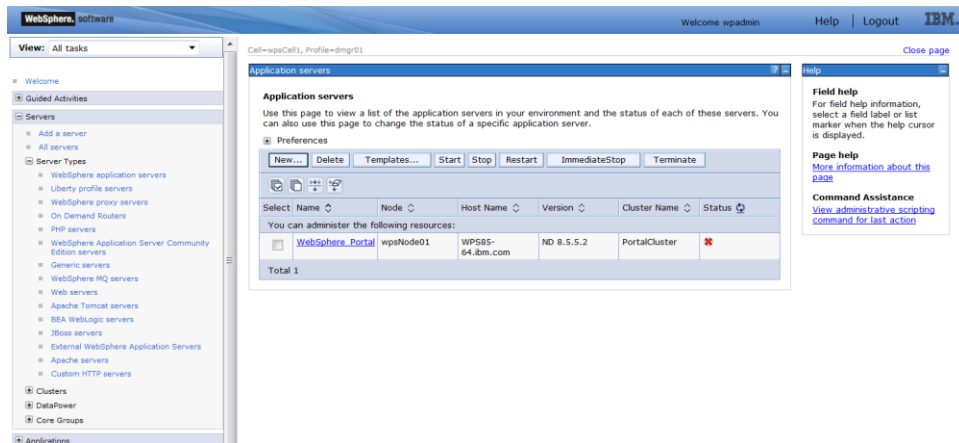
5. Click Stop



6. The message will appear that the stop process has been initiated.



- Wave the mouse over the icon under the **Status** column until it turns fully red. When it becomes fully red then the WebSphere Portal cluster has stopped.



- Navigate to Servers > Server Types > WebSphere application servers
- Verify the WebSphere_Portal status is red

6.3 Start Cluster

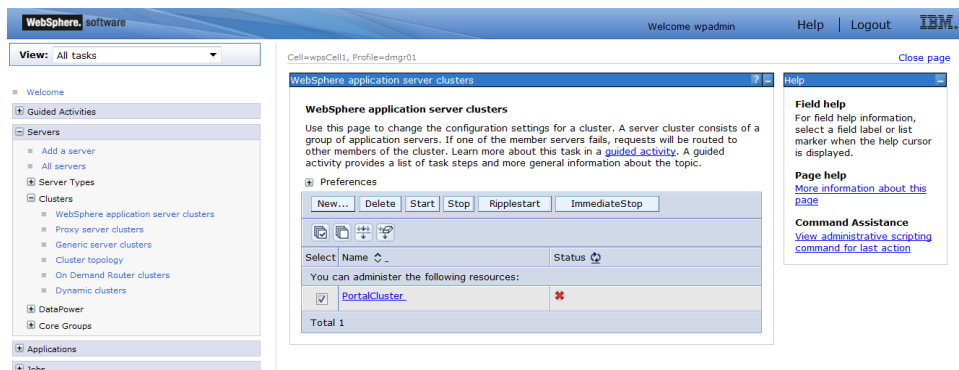


1. Open a browser and set the URL to the Deployment Manager console
<https://<HOSTNAME>:<PORT>/ibm/console>

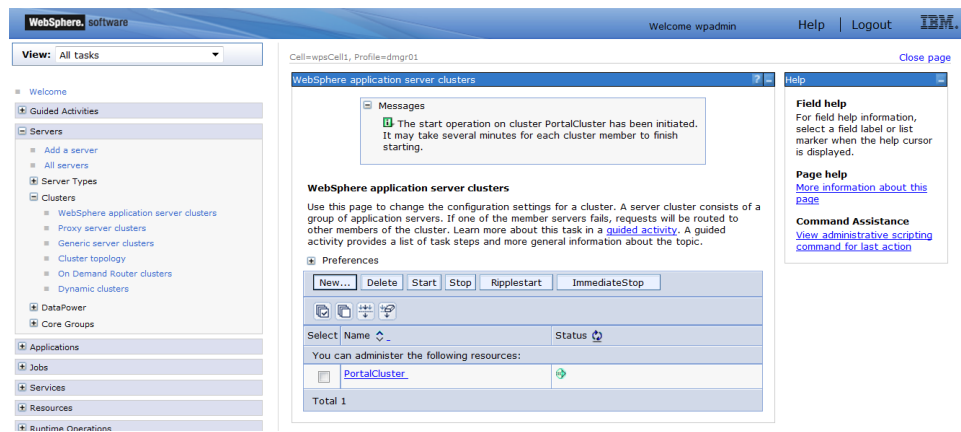
Example:

<https://wps85-64.ibm.com:9043/ibm/console>
<https://mydmgr.ibm.com:9043/ibm/console>

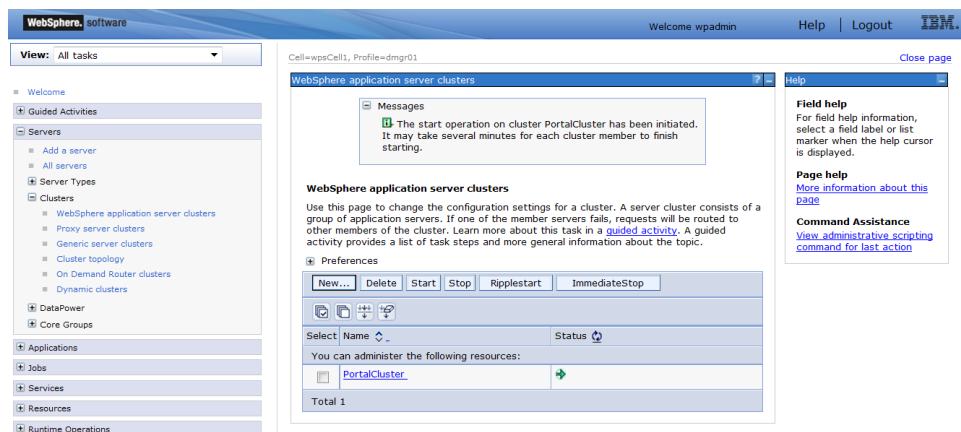
2. Login as the WebSphere Application Server administrator



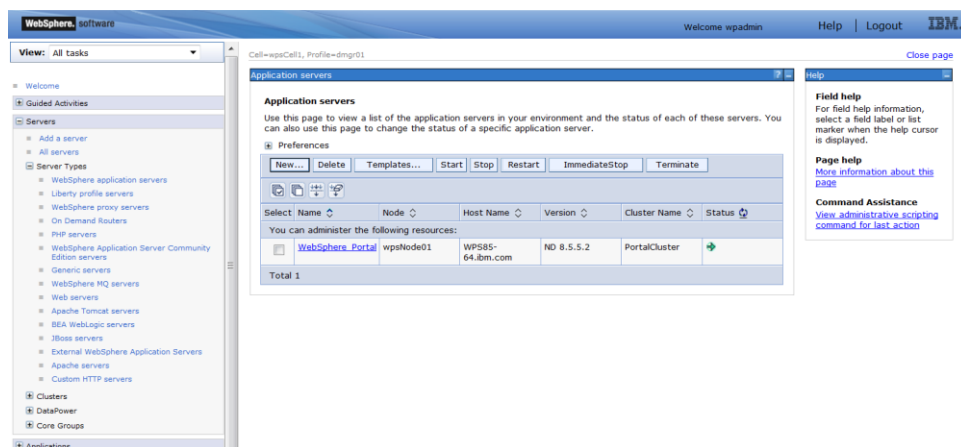
3. Navigate to Servers > Clusters > WebSphere application server clusters
4. Check the checkbox by the WebSphere Portal Cluster (Portal Cluster)
5. Click Start



6. The message will appear that the stop process has been initiated.



7. Wave the mouse over the icon under the Status column until it turns fully green. When it becomes fully green then the WebSphere Portal cluster has started



8. Navigate to Servers > Server Types > WebSphere application servers

9. Verify the WebSphere_Portal status is green

6.4 WebSphere Portal



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

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

Example:

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

2. Click Login

The screenshot shows the IBM WebSphere Portal login page. At the top, there is a navigation bar with the IBM logo on the left, a "Log in" button, and "Sign Up" and "Log In" links on the right. Below the navigation bar, the main heading reads "Log in with your Portal account". There are two input fields: "User ID:" with the value "wpadmin" and "Password:" with a masked password "*****". Below the input fields are two buttons: "Log in" and "Cancel". At the bottom, there is a link "Not registered? Sign up". The footer contains "Help" and "Support" links.

3. Under User ID, enter the WebSphere Portal Administrator
4. Under Password, enter the WebSphere Portal Administrator password
5. Click Log in

