

Exercise instructions

Preface

- Access your lab image by using the instructions that your instructor provides.



Substitution values

Use the following substitution values when you encounter them in the exercise instructions.

<wps_home> is /opt/IBM/WebSphere/PortalServer

<was_home> is /opt/IBM/WebSphere/AppServer

<wp_profile> is /opt/IBM/WebSphere/wp_profile

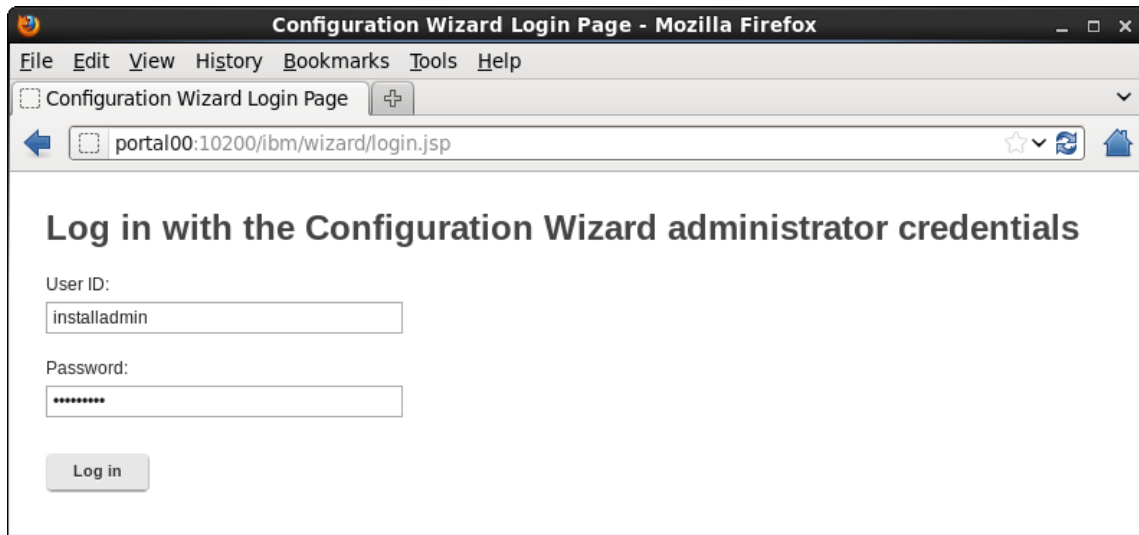
<dmgr_profile> is /opt/IBM/WebSphere/AppServer/profiles/Dmgr

Section 1: Starting and stopping servers

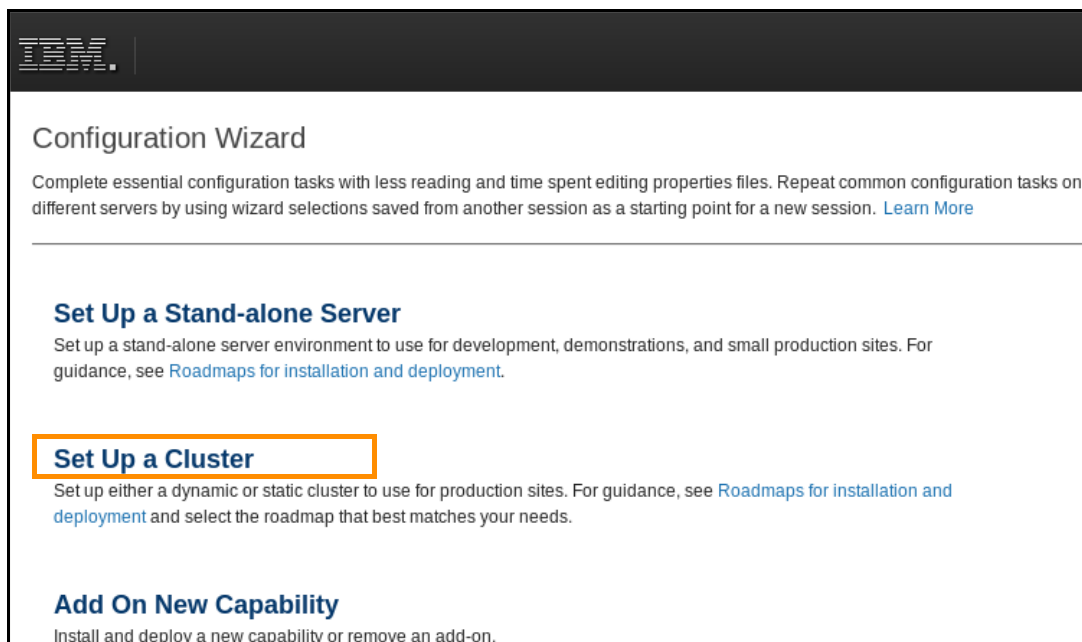
- __ 1. Start the deployment manager.
 - __ a. Open a terminal window and change directories to <dmgr_profile>/bin.
 - __ b. Enter the following command: `./serverStatus.sh -all -user wpsadmin -password IBMp0rtal`
 - __ c. If the deployment manager (dmgr) is stopped, start it with the command:
`./startManager.sh`
- __ 2. Start WebSphere Portal Server and log in.
 - __ a. From a terminal window and change directories to <wp_profile>/bin.
 - __ b. Enter the following command: `./serverStatus.sh -all -user wpsadmin -password IBMp0rtal`
 - __ c. If WebSphere Portal is stopped, enter the following command: `./startServer.sh WebSphere_Portal`
 - __ a. Log in to WebSphere Portal. Start a web browser and enter the following address:
`http://portal00:10039/wps/portal`
 - __ b. Enter `wpsadmin` for the user ID and `IBMp0rtal` for the password and click **Log in**.
 - __ c. Verify that you can log in successfully, then log out.
- __ 3. Start server1.
 - __ a. Open a terminal window, and change to the directory
`<was_home>/profiles/cw_profile/bin`
 - __ b. Enter the command: `./startServer.sh server1`

Section 2: Use the Configuration Wizard to create a Portal cluster

- ___ 1. Log in to the Configuration Wizard.
 - ___ a. Start the Firefox web browser and go to the configuration wizard at `http://portal00:10200/ibm/wizard`.
 - ___ b. Use `installadmin` as the user ID and `IBMp0rtal` for the password and log in.



- ___ 2. Use the Configuration Wizard to create a cluster.
 - ___ a. Click **Set Up a Cluster**.



- b. Click **Create a Cluster**.

3. Begin the three-step process to create a cluster.
- a. Answer questions about the system information.

- b. Keep the default settings, and click the right arrow to go to the Basic Cluster Settings pane.

- ___ c. Answer questions about the basic cluster settings.

Basic Cluster Settings

Where is the deployment manager:

☒ On the same server as portal

☐ On a remote server

What type of cluster do you want to create:

Static cluster

- ___ d. Keep the default settings of **On the same server as portal** and **Static cluster**. Click the right arrow to go to the next pane.
- ___ e. Answer questions about the Portal information as follows.
- WebSphere Portal administrator ID: `wpsadmin`
 - WebSphere Portal administrator password: `IBMp0rtal`
 - Release configuration user: `db2inst1`
 - Release configuration password: `IBMp0rtal`

Portal Information

*WebSphere Portal administrator ID:

*WebSphere Portal administrator password:

*Re-enter the password:

*Release configuration user:

*Release configuration password:

*Re-enter the password:

- ___ f. Click the right arrow to go to the Deployment Manager pane.
- ___ g. Answer questions about the deployment manager as follows.
- WebSphere Application Server administrator ID: `wpsadmin`
 - WebSphere Application Server administrator password: `IBMp0rtal`
 - Deployment manager cell name: `portal00Cell101`
 - Deployment manager node name: `portal00CellManager01`

- Deployment manager path:
/opt/IBM/WebSphere/AppServer/profiles/Dmgr

The screenshot shows the 'Deployment Manager' configuration pane. It has two tabs: 'Deployment Manager' (selected) and 'Cluster Settings'. The pane contains several input fields with labels and help icons (question marks):

- *WebSphere Application Server administrator ID:
- *WebSphere Application Server administrator password:
- *Re-enter the password:
- *Deployment manager cell name:
Example: dmgrCell01
- *Deployment manager node name:
Example: dmgrNode01
- *Deployment manager profile path:
Example: /opt/IBM/WebSphere/AppServer/profiles/dmgr01

A large grey right-pointing arrow is on the right side of the pane.

- __ h. Click the right arrow to go to the Cluster Settings pane.
- __ i. For the cluster name, keep the default: PortalCluster.

The screenshot shows the 'Cluster Settings' configuration pane. It has two tabs: 'Cluster Settings' (selected) and 'Deployment Manager'. The pane contains one input field with a label and a help icon (question mark):

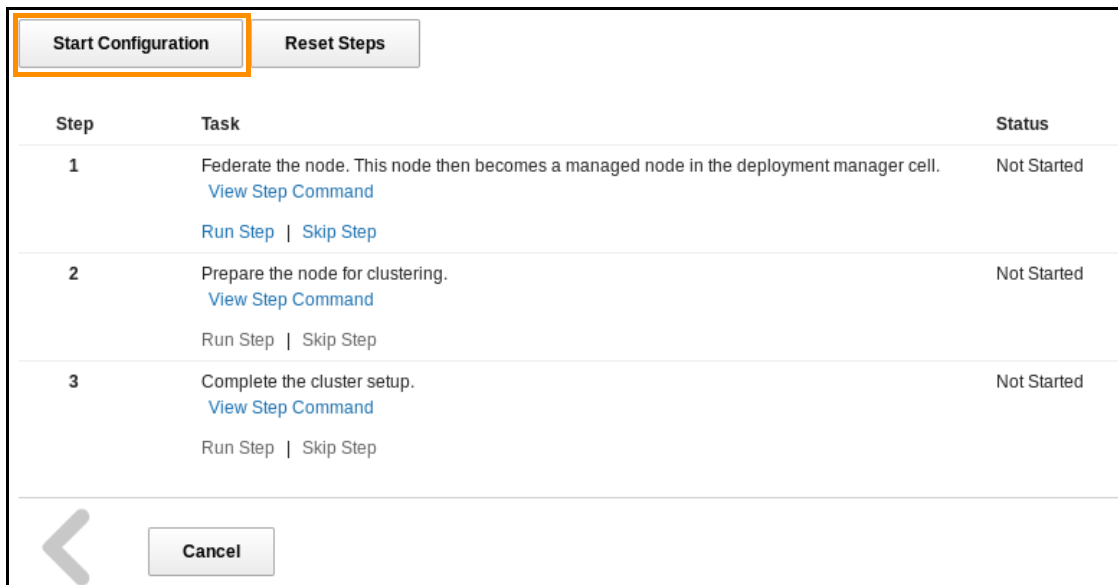
- *Cluster name:

A large grey right-pointing arrow is on the right side of the pane.


- __ j. Click the right arrow to go to the next pane.

___ 4. You are now at the third step, Configuration.

___ a. Click **Start Configuration** to begin the configuration process.

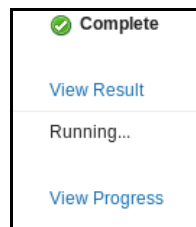



Step	Task	Status
1	Federate the node. This node then becomes a managed node in the deployment manager cell. View Step Command Run Step Skip Step	Not Started
2	Prepare the node for clustering. View Step Command Run Step Skip Step	Not Started
3	Complete the cluster setup. View Step Command Run Step Skip Step	Not Started



___ b. Click **OK** in the confirmation box.

There are no manual steps in this configuration, so each task runs automatically until it completes. As each step runs, you see a View Progress link. You can click the link to open a window that shows progress messages.



 **Complete**
[View Result](#)
 Running...
[View Progress](#)

If a step completes successfully (or fails), you can click the **View Result** link to see the log messages.

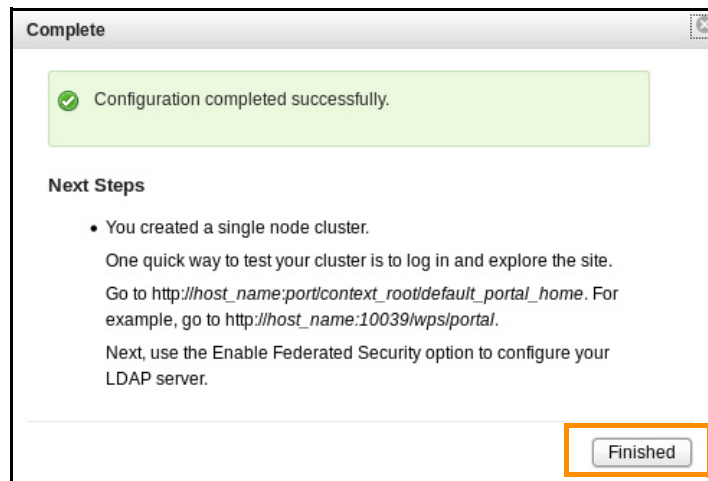
- ___ c. While Step1 is running, click **View Progress**. Follow the messages until you see **Build Successful**. This step is then marked complete, and the next step begins.
- ___ d. While Step 2 is running, click **View Progress**.
- ___ e. While Step 3 is running, click **View Progress**.

- ___ f. After all three steps complete successfully, click **Finished**.

Step	Task	Status
1	Federate the node. This node then becomes a managed node in the deployment manager cell. View Step Command Run Step Skip Step	✓ Complete View Result
2	Prepare the node for clustering. View Step Command Run Step Skip Step	✓ Complete View Result
3	Complete the cluster setup. View Step Command Run Step Skip Step	✓ Complete View Result

Finished

- ___ g. Click **Finished** again on the success message.

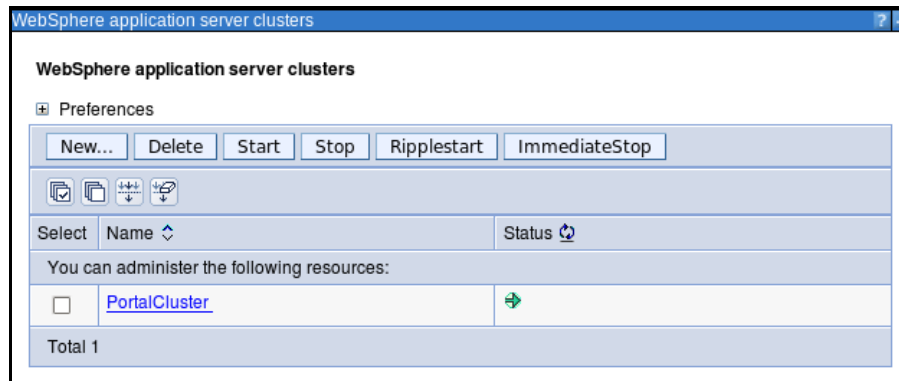


The Next Steps shows a quick way to test the cluster. It suggests that you go to the WebSphere Portal in a web browser. It is also suggested to use the Enable Federated Security option to configure the LDAP Server, but you completed this task manually in the previous exercise.

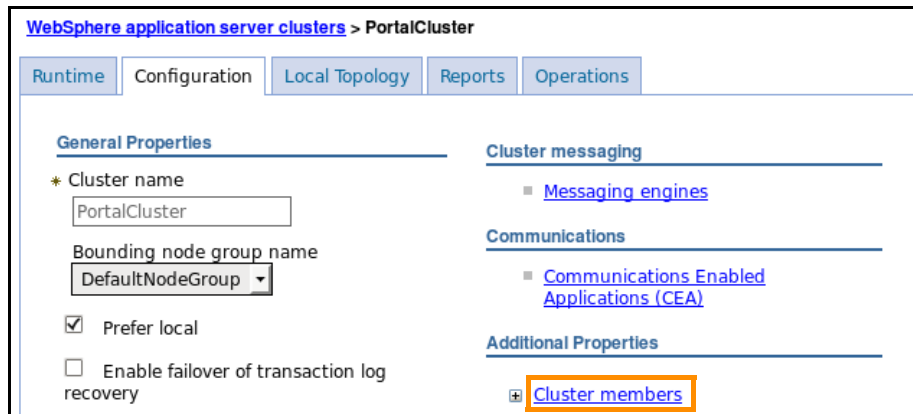
Section 3: Verify the Portal Cluster

- ___ 1. Verify access to the WebSphere Portal Server.
- ___ a. Start a web browser and enter the following address:
`http://portal00:10039/wps/portal`
- ___ b. Log in by using `wpsadmin` for the user ID and `IBMp0rtal` for the password and click **Log in**.

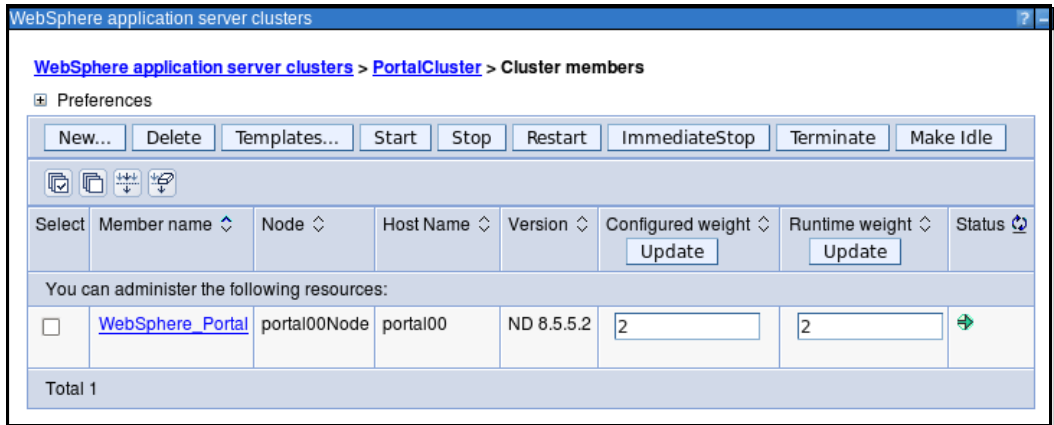
- ___ c. When you successfully log in, you verify that you have a running WebSphere Portal instance.
- ___ d. Log out of the portal.
- ___ 2. Explore the Portal cluster by using the administrative console of the deployment manager.
 - ___ a. Access the administration console (WebSphere Integrated Solutions Console) for the deployment manager. Start a Firefox web browser and enter the web address:
`http://portal00:9060/ibm/console`
 - ___ b. Log in with the user ID `wpsadmin` and password `IBMp0rtal`.
 - ___ c. In the left navigation of the administrative console, click **Servers > Clusters > WebSphere Application Server clusters**.



- ___ d. You see the PortalCluster link, and its status is Started. Click the **PortalCluster** link to examine configuration information about the cluster.
- ___ e. On the configuration tab, under Additional Properties, click **Cluster Members**.



___ f. Verify that you see the WebSphere_Portal listed as a cluster member.



___ g. Log out of the administrative console.

End of exercise