Exercise instructions

Preface

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



Note

Substitution values

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

<wps home> is /opt/IBM/WebSphere/PortalServer

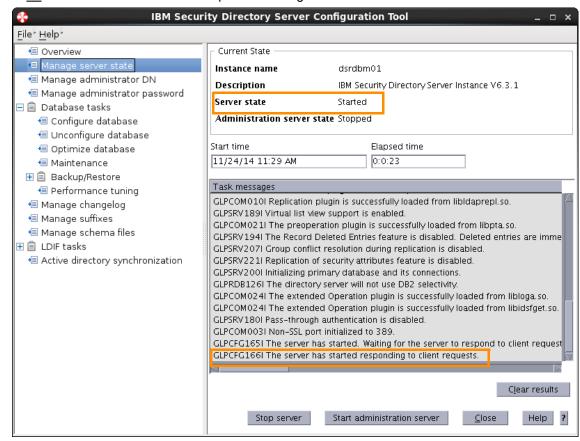
<was home> is /opt/IBM/WebSphere/AppServer

<wp profile> is /opt/IBM/WebSphere/wp profile

<dmgr profile> is /opt/IBM/WebSphere/AppServer/profiles/Dmgr

Section 1: Stop the WebSphere Portal and server1

	1. Ve	rify that WebSphere Portal is stopped.
	a.	Open a terminal window and change directories to <wp_profile>/bin.</wp_profile>
	b.	Enter the following command: ./serverStatus.sh -all -user wpsadmin -password IBMpOrtal
	c.	If WebSphere Portal is started, enter the following command: ./stopServer.sh WebSphere_Portal -user wpsadmin -password IBMpOrtal
2. Verify that server1 is stopped.		
	a.	Open a terminal window and change directories to <pre><was_home>/profiles/cw_profile/bin.</was_home></pre>
	b.	<pre>Enter the following command: ./serverStatus.sh -all -user installadmin -password IBMpOrtal</pre>
	c.	<pre>If server1 is started, enter the following command: ./stopServer.sh server1 -user installadmin -password IBMpOrtal</pre>
3. Ensure that IBM Security Directory Server Instance V6.3.1 is started.		
	a.	Open a terminal window and change directory to /opt/IBM/ldap/V6.3.1/sbin
	b.	Enter the command: ./idsxcfg
	c.	When the IBM Security Directory Server Configuration tool opens, click Manage server state .
	d.	If the server state is "Stopped", click Start server .



__ e. Click **OK** on the task completed message box.

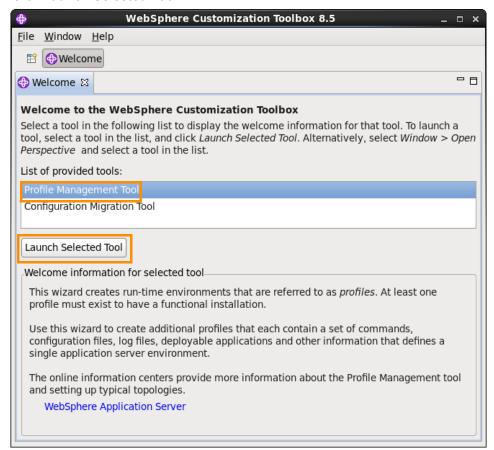
f. Close the tool by clicking File > Exit.

Section 2: Use the Profile Management Tool to create a deployment manager profile

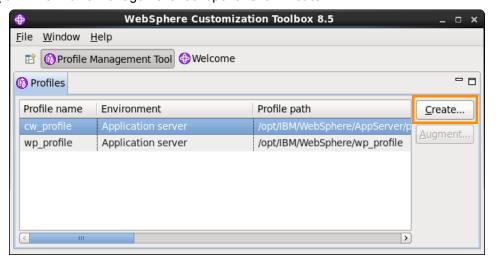
- Start the WebSphere Customization Toolbox.
 - a. Enter the command to start the WebSphere Customization Toolbox is:

<was home>/bin/ProfileManagement/wct.sh

__ b. The WebSphere Customization Toolbox opens. Select **Profile Management Tool**, and click **Launch Selected Tool**.



__ c. The Profile Management Tool opens. Click Create.



- 2. Create a deployment manager profile called Dmgr.
 - _ a. From the Environment Selection pane, select Management and click Next.



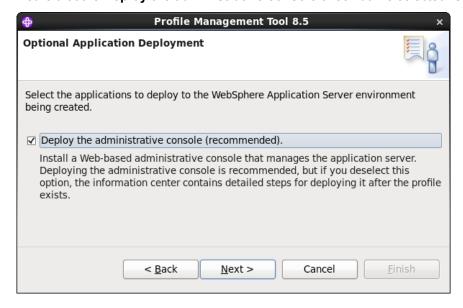
__ b. From the Server Type Selection pane, select **Deployment manager** and click **Next**.



__ c. Select **Advanced profile creation** to specify your own configuration values during profile creation. Click **Next**.

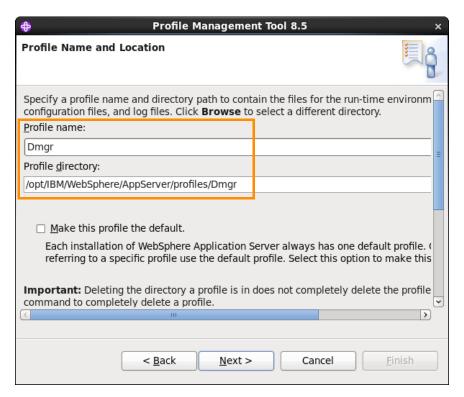


__ d. Ensure that the **Deploy the administrative console** check box is selected. Click **Next**.



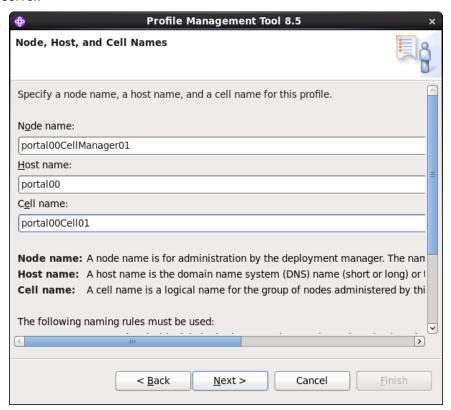
- __ e. From the Profile Name and Location pane, provide the following name and location information:
 - Profile name: Dmgr

- Profile directory: /opt/IBM/WebSphere/AppServer/profiles/Dmgr
- Do not select the Make this profile the default option.



f. Click Next.

__ g. The Node, Host, and Cell Names pane allows you to set the node name, cell name, and host name. Default values are completed based on the detected host name for your server.



- __ h. Accept the defaults, and click **Next**.
- i. From the Administrative Security pane, you choose whether to enable administrative security. Verify that the Enable administrative security option check box is selected. Enter the following information:

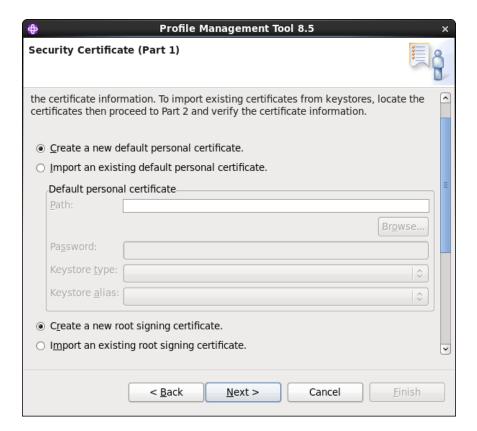
- User name: installadmin

- Password: IBMpOrtal

- Confirm password: IBMpOrtal



- __ j. Click Next.
- __ k. From the Security Certificate (Part 1) pane, accept the default selections:
 - Create a default personal certificate
 - Create a root signing certificate



Click Next.

m. Accept the Security Certificate (Part 2) pane defaults.



n. Click Next.

__ o. The Port Values Assignment pane allows you to set any ports for the deployment manager to prevent conflicts with other profiles. Accept the default port values..



- __ p. Click Next.
- __ q. On the Linux Service Definition pane, take the defaults and click **Next**.
- __ r. The Profile Creation Summary pane shows all of the choices you made on previous panes. Verify the summary information with what you entered previously. Click **Create**.
 - Creation of the profile usually takes several minutes to complete.

__ s. The profile creation completes and the Dmgr profile is created. Notice that the Launch the First steps console check box is selected.



- t. Click **Finish**, and the First steps console launches.
- __ 3. The First steps console is associated with the deployment manager profile, Dmgr, that was created. Each profile has its own First steps console.

___ 4. Click **Installation verification** from the First steps console.



__ a. The installation verification test tool starts the Dmgr and shows messages to indicate verification status. Use the scroll bar to scroll to the bottom to see all the messages. The following messages are shown if the installation verification was successful:

 ${\tt IVTL00701:}$ The Installation Verification Tool verification succeeded.

 ${\tt IVTL00801:}$ The installation verification is complete.

- __ b. Close the **First steps output Installation verification** window.
- __ c. Click **Exit** to close the First steps console.
- __ d. Click File > Exit to close the WebSphere Customization Toolbox.

Section 3: Configure LDAP security for the deployment manager

- 1. Log in to the administration console (WebSphere Integrated Solutions Console) for the deployment manager.
 - __ a. Start a Firefox web browser and enter the web address:

http://portal00:9060/ibm/console

b. The browser might show a message that the server connection is untrusted.



This Connection is Untrusted

You have asked Firefox to connect securely to **portal00:9043**, but we can't confirm that your connection is secure.

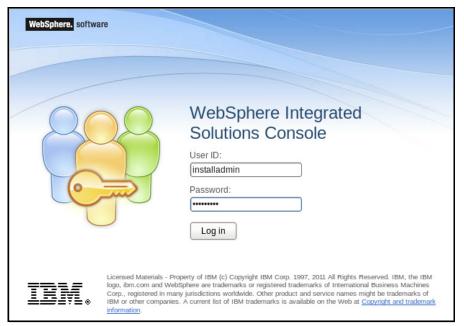
Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

What Should I Do?

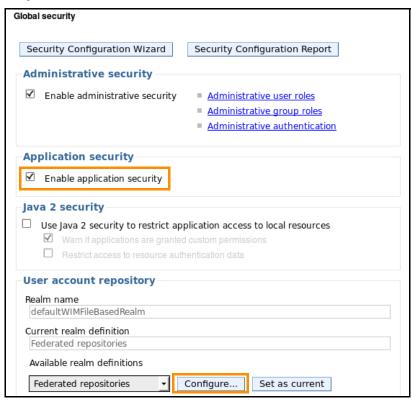
If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

Get me out of here!

- Technical Details
- I Understand the Risks
- __ c. Click "I understand the Risks" and then click Add Exception...
- ___ d. Click Confirm Security Exception.
- __e. Log in with the user ID installadmin and password IBMpOrtal.

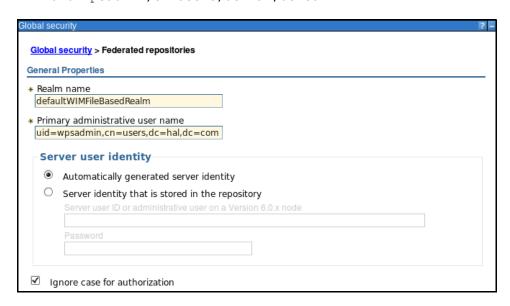


- __ 2. Configure LDAP security for the deployment manager identical to the WebSphere Portal configuration.
 - __ a. In the left navigation tree of the administrative console, click **Security > Global security**.

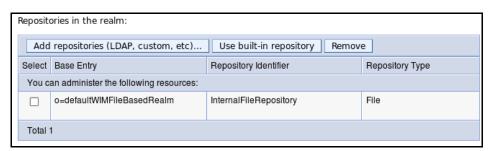


__ b. Click the check box for **Enable application security**. Click **Configure**, next to the Available realm definitions menu.

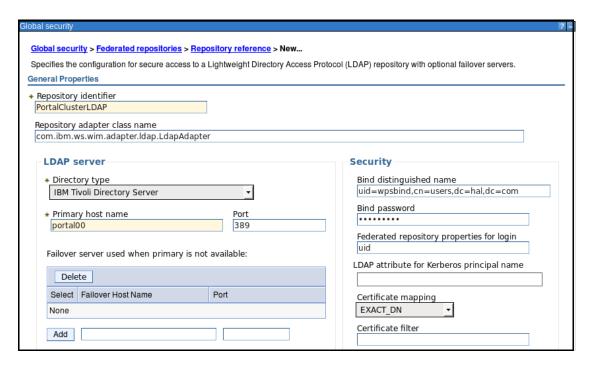
__c. Change the Primary administrative user name to uid=wpsadmin, cn=users, dc=hal, dc=com



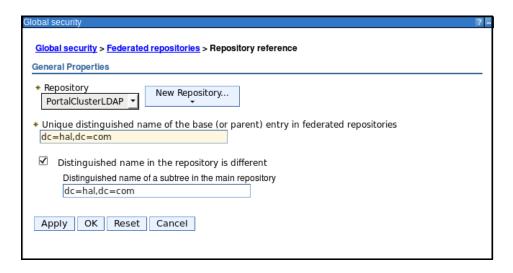
__ d. Scroll down to Repositories in the realm, and click **Add repositories**.



- e. On the Repository reference pane, click **New Repository**, then click **LDAP repository**.
- f. Enter the following properties.
 - Repository identifier: PortalClusterLDAP
 - Directory type: IBM Tivoli Directory Server
 - Primary host name: portal00
 - Bind distinguished name: uid=wpsbind, cn=users, dc=hal, dc=com
 - Bind password: IBMpOrtal

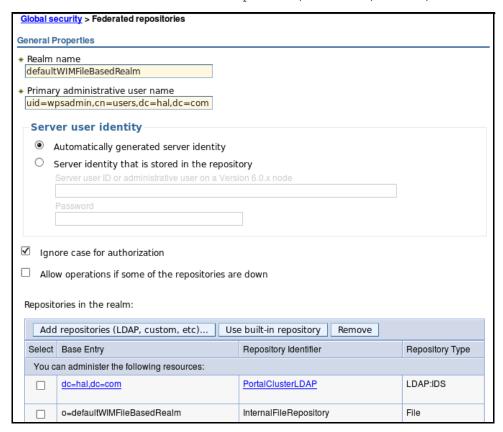


- _ g. Scroll down, and click **OK**. You should now be back on the Repository reference pane, and the Repository field should show the identifier PortalClusterLDAP. Enter the following properties.
 - Unique distinguished name of the base: dc=hal, dc=com
 - Check the box for Distinguished name in the repository is different
 - Distinguished name of a subtree in the main repository: dc=hal, dc=com

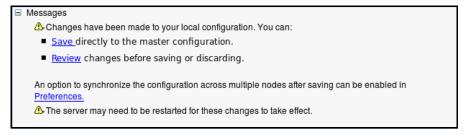


_ h. Click **OK**.

__i. You should return to the Federated repositories pane. Change the Primary administrative user name to uid=wpsadmin, cn=users, dc=hal, dc=com

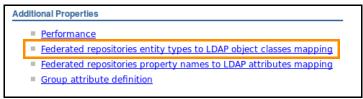


- __ j. Scroll down and make sure that you see PortalClusterLDAP listed as a repository in the realm. Click **OK**.
- __ k. Click **Save** to save changes to the master configuration.

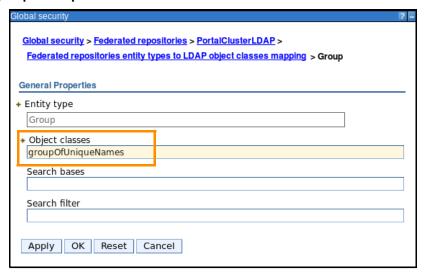


- __ I. Double check that the Primary administrative user name is changed to uid=wpsadmin,cn=users,dc=hal,dc=com. If not, change it again, and click Save.
- _ 3. Change the LDAP object classes name of the group entity type.
 - __ a. Return to the Federated repositories pane. (Click **Global security > Configure**).
 - b. Scroll down and click the **PortalClusterLDAP** link in the list of repositories.

__ c. Under Additional properties, click **Federated repositories entity types to LDAP object classes mapping**.



__ d. Click entity type **Group**, and change the object classes name to **groupOfUniqueNames**.



- __ e. Click OK.
- f. Click **Save** to save changes to the master configuration.

Section 4: Verify the new LDAP repository configuration

- __ 1. Restart the deployment manager server. You must restart the server so that the new configuration is initialized.
 - __ a. Open a terminal window, and change directory to <dmgr profile>/bin
 - __ b. Stop the server by entering the command:

./stopManager.sh -user installadmin -password IBMpOrtal



Important

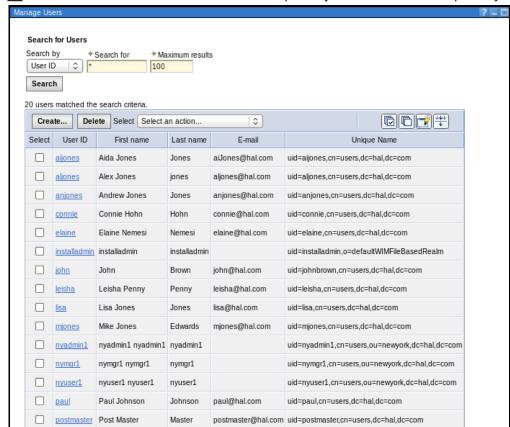
After the server is restarted, the primary administrative user name is in effect. So you must stop the deployment manager by using the command:

stopManager.sh -user uid=wpsadmin -password IBMpOrtal.

- __ c. Start the server with the command: ./startManager.sh
- __ 2. Log in to the administration console (WebSphere Integrated Solutions Console) for the deployment manager.
 - __ a. Start a Firefox web browser and enter the web address:

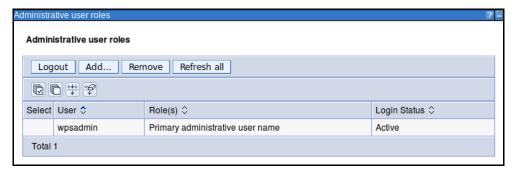
http://portal00:9060/ibm/console

- __ b. Log in with the user ID wpsadmin and password IBMp0rtal.
- __ 3. Verify access to the LDAP repository.
 - __ a. In the left navigation of the admin console, click Users and Groups > Manage Users.
 - b. You see a list of users from the LDAP repository and the file-based repository.



- 4. Verify the primary administrative user.
 - __ a. In the left navigation of the administrative console, click Users and Groups > Administrative users roles.

___ b. You should see the user wpsadmin listed.



__ 5. Log out of the administrative console by clicking **Logout**.



Information

Using the Configuration Wizard

In WebSphere Portal 8.5, you can use the Configuration Wizard to complete the tasks that you did manually in this exercise.

In the Configuration Wizard, select the following tasks.

- Set Up a Cluster > Create a Deployment Manager
- Set Up a Cluster > Enable Federated Security

For each of these tasks, you follow these steps.

- · Provide information about your environment.
- · Save your configuration settings.
- · Choose one of the following options:
 - Click **Download Files** to run the steps remotely.
 - Click Run All Steps to run the steps locally.

End of exercise