

Installing Web 2.0 reference application

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What this exercise is about

This exercise shows you how to install the Web 2.0 Reference application on the WebSphere Commerce server.

Lab requirements

List of system and software required for the student to complete the lab.

- WebSphere Commerce V6.0 with Feature Pack 2 installed. Download Feature Pack 2 from <http://www-1.ibm.com/support/docview.wss?uid=swg24013534>.
- Web 2.0 Store Solution reference application file found at https://www14.software.ibm.com/webapp/iwm/web/reg/pick.do?source=swg-wc&S_PKG=custp&lang=en_US. Download the file **6.0.0-WS-WCRefApp-Web2.0StoreSolution.zip** to the directory named **<REFAPP>**.
- Dojo Toolkit 0.1.4 files are available from <http://download.dojotoolkit.org/release-0.4.1/>. Download the file **dojo-0.4.1p1-ajax.zip** to the directory named **<DOJO>**.

Note: See the table below under Exercise Instructions for a definition of the variables **<REFAPP>** and **<DOJO>**. You need to supply your own values for these variables.

What you should be able to do

At the end of this lab you should be able to:

- Find the location of the Web 2.0 Store Solution reference application on the Web

- Install the starter store in WebSphere Commerce Server
 - Demonstrate basic operation of the starter store
-

Introduction

The Web 2.0 feature is implemented as a reference application which is a sample starter store. This starter store implements several user interface enhancements using IBM and DOJO widgets.

Exercise instructions

The instructions in this lab are Windows® operating system specific. If you plan on running the lab on an operating system other than Windows, you will need to run the appropriate commands, and use appropriate files for your operating system. The directory locations are specified in the lab instructions using symbolic references. The following table is a list of symbolic references where you must supply a value that is specific to your particular installation.

Variables requiring substitution

Variable name	Description
<WCS_HOME>	WebSphere Commerce home directory.
<WAS_HOME>	WebSphere Application Server home directory.
<REFAPP>	Directory containing Web 2.0 reference application
<DOJO>	Directory containing Dojo toolkit file
<INSTANCE>	Commerce instance name
<CELL>	Cell name with instance name embedded
<EAR>	Commerce enterprise application name with instance name embedded
<WC_HOST>	Your specific host name of the Commerce server
<WAS_PORT>	WebSphere Application Server administration console port for WebSphere Commerce server
<WCS_ADMIN>	WebSphere Commerce Server administrator ID
<WCS_ADMIN_PASS>	WebSphere Application Server administrator password
<DBUSERPASSWORD>	Database administrator password

Part 1: Deploying the starter store on Commerce Server

- ___ 1. Start the WebSphere Commerce server and HTTP server if it is not already started.
 - ___ a. Start the IBM HTTP Server for the correct instance by opening the Windows Services Control Panel. Find the service named **IBM HTTP Server for WebSphere Commerce (<INSTANCE>)** where **<INSTANCE>** is the instance name, and then **right-click > Start**.
 - ___ b. Start the application server by opening a command window. Enter these commands:
cd /d <WAS_HOME>\profiles\<INSTANCE>\bin
startserver server1
- ___ 2. Enable the component services feature.

- ___ a. Open a command line window. Enter these commands:
cd <WCS_HOME>\bin
config_ant -buildfile
<WCS_HOME>/components/common/xml/enableFeature.xml -
DinstanceName=<INSTANCE> -DfeatureName=component-services -
DdbUserPassword=<DBUSERPASSWORD>

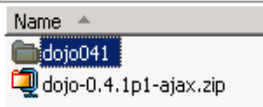
Note: The **config_ant** command and all the succeeding parameters should be typed on the same line.

- ___ b. The command takes several minutes to complete. You should see this output as an indication that the command succeeded. If you are running this for the first time, the total time should be about 20 minutes. The example here shows a completion time of 25 seconds which indicates that this step had been previously run. Running it subsequent times takes under one minute.

```
[CheckFeaturePrerequisite] INST actual level: 6.0.0.2  
[CheckFeaturePrerequisite] Required Level: 6.0.0.2  
[CheckFeaturePrerequisite] Prerequisite check PASSED, component BASE
```

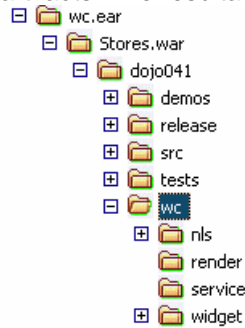
.....LINES DELETED

```
BUILD SUCCESSFUL  
Total time: 25 seconds
```

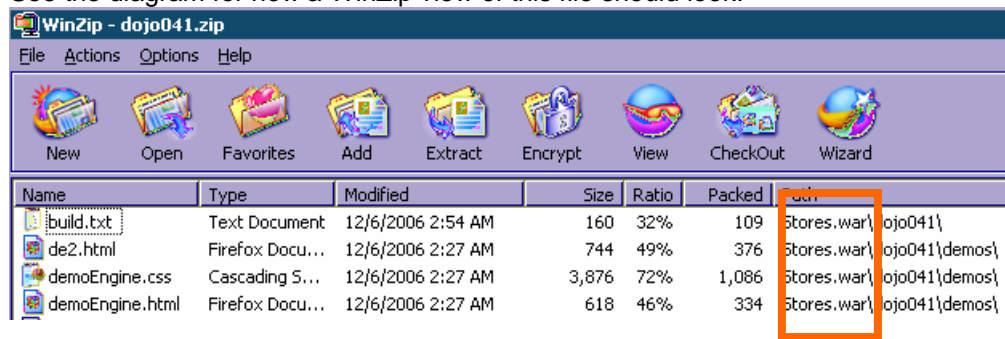
- ___ 3. Merge the Dojo toolkit artifacts with the WebSphere Commerce Dojo widget artifacts.
 - ___ a. Extract the dojo toolkit file that you downloaded to the **<DOJO>** directory. Make sure you have the archive file named **dojo-0.4.1p1-ajax.zip**. Extract the toolkit archive into the same directory, **<DOJO>**.
 - ___ b. Rename the top directory under **<DOJO>** from **dojo-0.4.1p1-ajax** to **dojo041**. At this point, your **<DOJO>** directory should look like this:


The screenshot shows a file explorer window with a 'Name' column. Underneath, there is a folder icon labeled 'dojo041' and a zip file icon labeled 'dojo-0.4.1p1-ajax.zip'.
 - ___ c. Extract the Web 2.0 reference application archive that you downloaded to the to the **<REFAPP>** directory. Extract it to the same directory, **<REFAPP>**.
 - ___ d. Copy the **<DOJO>\dojo041** folder to **<REFAPP>\refapp\web20storesolution\wc.ear\Stores.war**. Reply yes to the warning that there is already a folder by that name. The two folders have the same name, but different contents. This copy step effectively merges the artifacts that Dojo provides with the WebSphere Commerce specific

artifacts. The resultant directory should look like this diagram:



- ___ e. Archive the <REFAPP>\refapp\web20storesolution\wc.ear\Stores.war folder into a new file named **dojo041.zip**. Verify that your new archive file contains the top level directory Stores.war. See the diagram for how a WinZip view of this file should look.

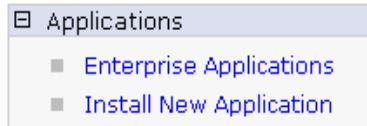


- ___ 4. Update the WebSphere Commerce enterprise application using the WebSphere administration console application update facility.

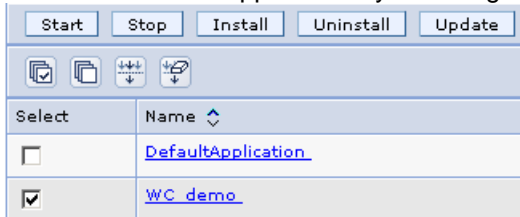
- ___ a. Start the WebSphere Application Server administration console by entering this address in your browser window:
http://<WC_HOST>:<WAS_PORT>/ibm/console

- ___ b. Log into the administration console.

- ___ c. In the left navigation bar, select Applications > Enterprise Applications



- ___ d. Select the <EAR> application by checking the box, then press **Update**.



- ___ e. Select the **Partial application** update option. Browse to the **dojo041.zip** file created in a previous step. Then press **Next**.

Application to be updated:
WC_demo

Application update options

Full application
Select this option to replace the enterprise arch enterprise archive replaces the existing installer.

Single module
Select this option to update an existing module path to the module matches an existing path to replaces the existing module. If the relative path the uploaded module is added to the application.

Single file
Select this option to update an existing file or file matches an existing path to a file in the application. If the relative path to the file does not exist in application.

Partial application
Select this option to update or add several files .zip or .gzip. The compressed file is unzipped if exist in the application with the same paths and the uploaded files do not exist, the files are added to the installed application by specifying metadata.

Upload the archive file with the new or replace

Local file system
Specify path
dojo041.zip

- ___ f. On the next screen, select **OK**. This step should take about 5 minutes to complete.
- ___ g. After the update completes, save the configuration. This step should take about 5 minutes to complete.

Update of WC_demo has ended.

To start the application, first save changes to the master configuration.

The application may not be immediately available while being started on all servers.

[Save to Master Configuration](#)

- ___ h. This is an optional problem determination step. Visit the directory **<WAS_HOME>\profiles\<INSTANCE>\installedApps\<CELL>\<EAR>\Stores.war** and verify that there is a directory named **dojo041**. If there is no such directory, the most probable cause is that you did not build the file **dojo041.zip** correctly. Go back to the previous step where this is done and verify that this file is correct.

- ___ 5. Copy the starter store archives to the proper staging directory in preparation for publishing.
- ___ a. Navigate to **<WCS_HOME>/instances/<INSTANCE>**
- ___ b. Make a new directory named **sar**. If the **sar** directory already exists, skip this step.
- ___ c. Navigate to the starter store archives at **<REFAPP>\refapp\web20storesolution\starterstores**
- ___ d. Copy **Madisons2.sar** and **Madisons2SampleData.sar** to **<WCS_HOME>/instances/<INSTANCE>/sar**
- ___ 6. Publish the starter store using the WebSphere Commerce administration console.

- ___ a. Start the WebSphere Commerce administration console with this address in your browser
https://<WC_HOST>:8002/adminconsole

Note: Your browser must be Internet Explorer to access the administration console

- ___ b. Log in using <WCS_ADMIN> and <WCS_ADMIN_PASS> as the ID and password. Select **Site administration**.

- ___ c. Select **Store Archives > Publish**



- ___ d. Select **Madisons2.sar > Next**



- ___ e. Accept the defaults, and then select **Next**, and **Finish**
- ___ f. Wait for the store to finish publishing. Publishing should take about 20 minutes. Use the refresh button on the **Publish Status** window to determine when publishing is complete.

Part 2: Verifying store operation

- ___ 1. Examine the directory structure under stores.war
 - ___ a. Open a directory browser such as Windows Explorer and navigate to **<WAS_HOME>\profiles\<INSTANCE>\installedApps\<CELL>\<EAR>\Stores.war**.
 - ___ b. Observe that there are new directories, **dojo041** and **Madisons2**, representing the starter store and the Dojo libraries.
- ___ 2. Visit the starter store entry page and operate the enhanced user interface elements.
 - ___ a. To get an idea of how the various user interface elements operate, view the demonstration of basic operations of the starter store. Open this address:
http://publib.boulder.ibm.com/infocenter/ieduasst/v1r1m0/index.jsp?topic=/com.ibm.iea.wcs/wcs/6.0.0.2/New_Features/Web20_Store_Model/WCSv602_Web20_StoreDemo/WCSv602_Web20_StoreDemo_viewlet_swf.html

To view the demonstration, your browser needs the Adobe Flash player plug-in installed. See this address to download the Adobe Flash Player plug-in:
http://www.adobe.com/shockwave/download/download.cgi?P1_Prod_Version=ShockwaveFlash&promoid=BIOW
 - ___ b. After viewing the demonstration, open a new browser window and visit this address:
http://<WC_HOST>/webapp/wcs/stores/servlet/Madisons2/index.jsp
 - ___ c. Operate the store interface as you learned by viewing the demonstration in the step above.

Part 3: Cleanup

To ensure that the IBM HTTP Server and the WebSphere Commerce server do not interfere with other lab exercises, turn them off. This is particularly important if you plan to run an exercise using the WebSphere Commerce Developer toolkit. If you are sure your next exercise is using the WebSphere Commerce Server, then you can skip this part.

- ___ 1. Stop the WebSphere Commerce server and IBM HTTP server
 - ___ a. Stop the IBM HTTP Server for the correct instance by opening the Windows Services Control Panel. Find the service named **IBM HTTP Server for WebSphere Commerce (<INSTANCE>)** where **<INSTANCE>** is the instance name, and then **right-click > Stop**.
 - ___ b. Stop the application server by opening a command window. Enter these commands:

```
cd /d <WAS_HOME>\profiles\<INSTANCE>\bin
stopserver server1
```

What you did in this exercise

You learned how to install the Web 2.0 reference application and learned how to operate the new user interface elements.