



Deployment Automation Sample WebLogic Deployment Process

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Deploying a WebLogic Component

This document assumes that you have imported the *Sample WebLogic Plugin* sample from the Deployment Automation Samples category in [Community website](#). In Deployment Automation, you can view the pre-configured processes for this sample. This document outlines the steps taken to design the processes.

About the Sample

This sample demonstrates how to deploy an application to a WebLogic server. The process to deploy the sample WebLogic component follows these steps:

1. Delete existing files and directories
2. Start the target servers
3. Save the latest artifacts to the destination server
4. Deploy the .war file

This sample uses the following plugins:

- FileUtils
- DA Versioned File Storage
- WL Deploy

Designing the Process to Deploy the WebLogic Component

Step 1: Clean up Working Directory (Delete Files and Directories)

The first step will delete the files from all subdirectories, starting at the base directory for the Sample WebLogic Component.

1. Navigate to **Management > Components**.
2. Select **Sample Weblogic Component** and then select the **Processes** tab.
3. Click the **Create Process** button.
4. Enter the name `Deploy War` and accept the default values for the rest of the fields.
5. Select the process and on the **Tools** tab, expand the menu item **Utilities > FileUtils**.
6. Drag the **Delete Files and Directories** step onto the design space.
7. On the **Item Properties** tab, enter these values for the following fields:
 - **Name:** `Clean Working Directory`
 - **Base Directory:** `.`

- **Include:** `**/*`

8. Use the default values for the remaining fields.

The screenshot shows a software interface with two tabs: 'Item Properties' (selected) and 'Tools'. Under 'Item Properties', there are three main sections:

- Name:** A text field containing 'Clean Working Directory'.
- Base Directory:** A dropdown menu set to 'Prompt for a value on use' with a question mark icon to its right. Below it is a text field containing an asterisk (*).
- Include:** A dropdown menu set to 'Prompt for a value on use' with a question mark icon to its right. Below it is a text area containing the text '**/*'.

Step 2: Start Targets

The second step will start the identified WebLogic Targets.

1. On the **Tools** tab, expand the menu item **Application Server > Java > WebLogic WLDeploy**.
2. Drag the **Start Targets** step onto the design space.
3. On the **Item Properties** tab, enter these values for the following fields:
 - **Admin URL:** `${p:environment/wldeploy.url}`
 - **JMX Admin URL:** `${p:environment/wldeploy.jmxUrl}`
 - **Targets:** `${p:environment/wldeploy.targets}`
 - **User Name:** `${p:environment/wldeploy.user}`
 - **Password:** `password`
 - **Path to WLDeploy Ant Task Jar:** `${p:environment/wldeploy.path}`
4. Use the default values for the remaining fields.

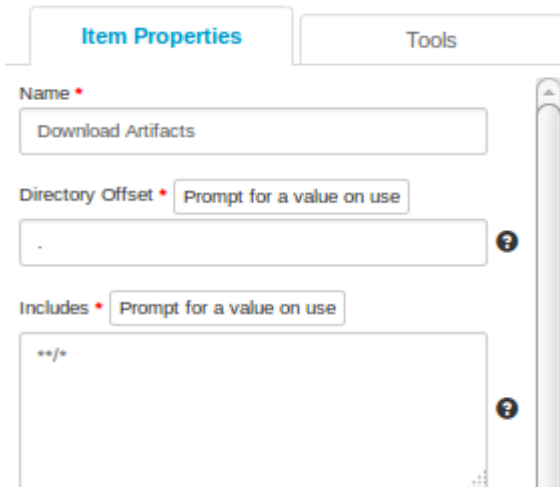
The screenshot shows the 'Item Properties' tab of a software interface. The 'Tools' tab is also visible. The 'Item Properties' section contains several configuration fields:

- Name ***: Start Targets
- Admin URL ***: Prompt for a value on use. Value: \${p.environment/wideploy.url}
- JMX Admin URL**: Prompt for a value on use. Value: \${p.environment/wideploy.jmxUri}
- Targets ***: Prompt for a value on use. Value: \${p.environment/wideploy.targets}
- User Name ***: Prompt for a value on use. Value: \${p.environment/wideploy.user}
- Password ***: Prompt for a value on use. Value: ****
- Path to WLDeploy Ant Task Jar**: Prompt for a value on use. Value: \${p.environment/wideploy.path}

Step 3: Download Artifacts

The third step will download all of the artifacts for the current component version from CodeStation to the component's base directory.

1. On the **Tools** tab, expand the menu item **Repositories > Artifact > DA**.
2. Drag the **Download Artifacts** step onto the design space.
3. Use the default values for all fields.



Step 4: Sample WebLogic Component

The fourth step will deploy the .war file.

1. On the **Tools** tab, expand the menu item **Application Server > Java > WebLogic WLDeploy**.
2. Drag the **Run WLDeploy** step onto the design space.
3. On the **Item Properties** tab, enter these values for the following fields:
 - **Application Name:** `${p:environment/wl.applicationname}`
 - **Source to deploy:** `${p:environment/wl.applicationname}`
 - **Admin URL:** `${p:environment/wldeploy.url}`
 - **JMX Admin URL:** `${p:environment/wldeploy.jmxUrl}`
 - **Targets:** `${p:environment/wldeploy.targets}`
 - **User Name:** `${p:environment/wldeploy.user}`
 - **Password:** `password`
 - **Path to WLDeploy Ant Task Jar:** `${p:environment/wlfullclient.path}`
4. Use defaults for the remaining fields.

Item Properties Tools

Name *
Deploy War

Application Name * Prompt for a value on use
\${p.environment/wl.applicationname} ?

Source to deploy Prompt for a value on use
\${p.environment/wl.applicationname} ?

...

Admin URL * Prompt for a value on use
\${p.environment/wldeploy.url} ?

JMX Admin URL Prompt for a value on use
\${p.environment/wldeploy.jmxUrl} ?

Targets * Prompt for a value on use
\${p.environment/wldeploy.targets} ?

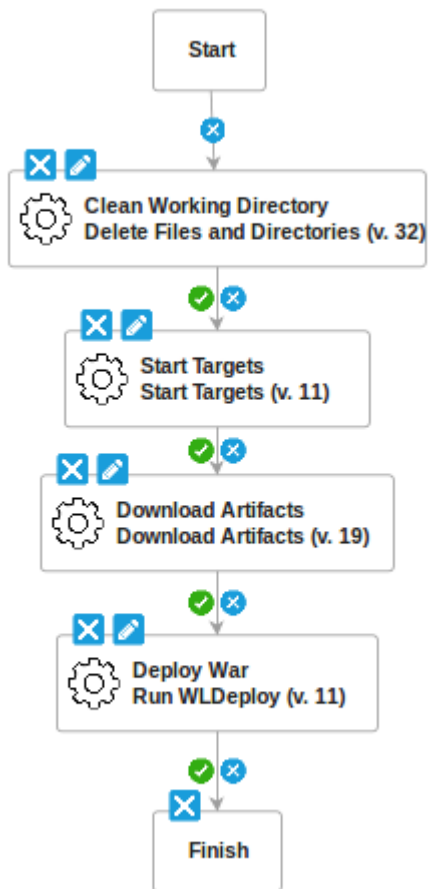
User Name * Prompt for a value on use
\${p.environment/wldeploy.user} ?

Password * Prompt for a value on use
**** ?

Path to WLDeploy Ant Task Jar
Prompt for a value on use
\${p.environment/wlfullclient.path} ?

The Component Deployment Graphic Process

After selecting the preceding steps and filling in their properties, connect the steps as shown in the following graphical view of the Sample WebLogic Component process.



Configuring the Component Environment Properties

You must configure the environment properties for the component so that the property values are filled in uniquely for each environment. This is done in two parts, as described in the following sections.

Adding the Component Environment Properties

You must first add the environment properties to the component without defining their values. Remember that you used variables in the processes when you referenced the WebLogic information.

1. Select **Sample WebLogic Component** and then select the **Details** tab.
2. In the selection box, select **Environment Property Definitions**.
3. Click the **Add Property** button.
4. Add the following properties with no values:
 - wl.applicationname

- `wldeploy.jmxUrl`
- `wldeploy.password`
- `wldeploy.path`
- `wldeploy.targets`
- `wldeploy.url`
- `wldeploy.user`
- `wlfullclient.path`

Designating Values for the Properties in the Environment

After you have added environment properties at the component level, you can set the values for them for each environment to which the component is mapped. Setting values for the properties at the environment level ensures that the variables in the component processes will be appropriately resolved for each environment you run the process against.

1. Navigate to **Management > Applications**.
2. Select **Sample Weblogic Application** and then select the **Environments** tab.
3. Click the **INT** environment and then select **View Details**.
4. Select the **Component Mapping** tab.
5. Select the **Properties** tab.
6. Click **Edit**.
7. Enter values for the environment properties that you previously defined for the component:
 - `wl.applicationname:` `qlarius.war`
 - `wldeploy.jmxUrl:` `t3://localhost:7001`
 - `wldeploy.password:` `password`
 - `wldeploy.path:`
`C:\oracle\Middleware\wlserver_10.3\server\lib\wlfullclient.jar`
 - `wldeploy.targets:` `Demo-Test`
 - `wldeploy.url:` `localhost:7001`
 - `wldeploy.user:` `weblogic`
 - `wlfullclient.path:`
`C:\oracle\Middleware\wlserver_10.3\server\lib\wlfullclient.jar`

The properties are now set for the INT environment and are shown in the following figure.

Resource Groups		Properties		
Name	Label	Required	Value	
wl.applicationname	WL War File Name	false	qlarius.war	
wideploy.jmxUrl	WebLogic Deploy JMX URL	false	t3://localhost:7001	
wideploy.password	WebLogic Deploy Password	false	****	
wideploy.path	WebLogic Deploy Jar File Path	false	C:\oracle\Middleware\wlserver_10.3\server\lib\wfulclient.jar	
wideploy.targets	WebLogic Deploy Targets	false	Demo-Test	
wideploy.url	WebLogic Deploy URL	false	localhost:7001	
wideploy.user	WebLogic Deploy User	false	weblogic	
wifulclient.path	WebLogic Full Client Path	false	C:\oracle\Middleware\wlserver_10.3\server\lib\wfulclient.jar	