44 - Defining environment variables using the wsadmin scripting tool

Context

The WebSphere Application Server (WAS) provides a way to define environment variables using Name Space Binding. The process of defining the variables is automated using scripting (Jython). This document describes the steps to run the Jython script, create-crossViewConfiguration-variables.py using the wsadmin scripting tool. The create-crossViewConfig-variables.py script, creates Name Space Binding variables in the WAS server context; externalizing and eliminating the need to deploy the CrossViewConfiguration.properties property file in the genesis.war.

Prerequisites

Before trying to accomplish this task, you must have already completed the following tasks:

- WebSphere Commerce toolkit must be installed.

Steps

To run the create-crossviewConfiguration.variables.py script:

1. Start the WAS server. This is the server where the Name Space Binding variables are to be created. Example: CrossView Genesis server

<table>
<thead>
<tr>
<th>Server</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CrossView Genesis</td>
<td>Started</td>
<td>Republish</td>
</tr>
<tr>
<td>CrossView Intelligent Advisor</td>
<td>Stopped</td>
<td>Republish</td>
</tr>
<tr>
<td>CrossView POS Daemon</td>
<td>Stopped</td>
<td>Republish</td>
</tr>
<tr>
<td>CrossView Search</td>
<td>Stopped</td>
<td>Republish</td>
</tr>
<tr>
<td>WebSphere Commerce Test Server</td>
<td>Stopped</td>
<td>Republish</td>
</tr>
</tbody>
</table>

2. Right-click on the server; then click Properties > WebSphere Application Server.

   Take note of the Profile directory of the WAS server.

3. Open a command prompt window

4. Navigate to the <Profile directory path>\bin folder located in the previous step, such as C:\CrossView\wasprofile\bin.

5. Run the script by running the following command:

   The arguments passed to the script must be in the specified order.
# To create the values
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-variables.py <scopeName> <proxyClientIdValue>
<enterpriseValue> <maximumTotalConnectionValue>
<maximumConnectionperHostValue> <solrURLCatentryValue>
<solrURLCatentryFrValue> <solrURLCatentryJpValue>
<solrURLCustomerValue> <solrWriteURLCustomerValue>
<trustStorePathNameValue> <trustStorePasswordValue>
<ciaPartialURLRecsCallValue>

or

# You can create the name-value pair by passing in the variable name and it's value
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> proxyClientId
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> enterprise
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> maximumTotalConnection
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> maximumConnectionperHost
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> solrURLCatentry
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> solrURLCatentryFr
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> solrURLCatentryJp
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> solrURLCustomer
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> solrWriteURLCustomer
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> trustStorePathName
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> trustStorePassword
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/create-crossviewConfiguration-nameValuePair.py <scopeName> ciaPartialURLRecsCall

or

# To migrate values from the existing CrossviewConfiguration.
properties (available only for the Toolkit)
C:\CrossView\wasprofile\bin> wsadmin.bat -lang jython -f C:/crossview42/workspace/crossview-proxy-data/proxy/scripts/WAS/migrate-crossviewConfiguration-variables.py <scopeName>
Where:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>scopeName</td>
<td>Pass value for the scope within which the Name Space Binding variables are to be created.</td>
</tr>
<tr>
<td>proxyClientId</td>
<td>The unique identifier for the Proxy client.</td>
</tr>
<tr>
<td>enterpriseValue</td>
<td>The enterprise value.</td>
</tr>
<tr>
<td>maximumTotalConnectionValue</td>
<td>The maximum amount of connections.</td>
</tr>
<tr>
<td>maximumConnectionHostValue</td>
<td>The maximum amount of connections per host.</td>
</tr>
<tr>
<td>solrURLCatalogEntryValue</td>
<td>The URL for the Solr catalog entry</td>
</tr>
<tr>
<td>solrURLCatalogEntryFrValue</td>
<td>The URL for the Solr catalog entry-French</td>
</tr>
<tr>
<td>solrURLCatalogEntryJpValue</td>
<td>The URL for the Solr catalog entry-Japanese</td>
</tr>
<tr>
<td>solrURLCustomerValue</td>
<td>The URL for the Solr customer</td>
</tr>
<tr>
<td>solrWriteURLCustomerValue</td>
<td>The URL for the Master Solr URL to create and update customers used in a SOLR replication setup. If there is only one SOLR system, then this value is the same as solrURLCustomer.</td>
</tr>
<tr>
<td>trustStorePathNameValue</td>
<td>The trust store path name</td>
</tr>
<tr>
<td>trustStorePasswordValue</td>
<td>The trust store password</td>
</tr>
</tbody>
</table>

For example:

```
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6. Verify that the environment variables are created successfully, by performing one of the following steps:

- Verify using the WAS Admin Console GUI:
  a. Right-click on the WAS server (ensure server is up and running); then click Administration > Run administration console. The WAS Administrative console window displays.
  b. From the left navigation menu, click Environment > Naming > Name Space Binding.
  c. Verify that all property values passed as arguments are successfully created as Name Space Binding variables values.

- Restarting the WAS server and ensuring no errors are encountered during server start up.

⚠️ The variables are referenced using JNDI look-up during server start up. If the variables are not created correctly, examine the server logs for errors.