ArcGISMonitorPythonExample

This example Python extension for ArcGIS Monitor provides sample code for programmer to add custom counters for data collection in ArcGIS Monitor. Python version 2.7.9 (or higher) must already be installed on the ArcGIS Monitor machine.

Steps

1. Make a copy of the **ArcGISMonitorPythonExample** folder.
2. Rename the copy of the folder.
3. Open TestCmd.js in Notepad++.
4. Edit line 13 to match your copied folder:
   ```
   var t = require('../MyNewExtension');
   ```
5. Implement code following the example in examplePython.py.
6. Test your code by using testCmd.js at command line.
   Example:
   ```
   Node testCmd.js
   ```
7. DO NOT DEPLOY your code unless you have done negative testing for invalid/Null input and implemented error handling.
8. Short overview:
   a. Index.js is a node.js module that has parameters that are set in testCmd.js. When you set the parameters and invoke testcmd.js as defined in step 6, you are loading a node.js module and invoking the execution of the function of the module. The input to the function invoked is proved by testcmd.js. Index.js will invoke your program with the parameters provided and return the result. It must be formatted as in the example.

9. Each of the following files **examplePython.py**, **index.js**, and **testCmd.js** have inline comments to help you understand the requirements and overall process for making an extension. Please read them carefully before you write your extension. DO NOT DEPLOY your code unless you have done negative testing.
10. If you are modifying the code from the bin directory, please note that all the operations get cached.
11. Zip your extension folder and [Import Extension](#) in Administrator. This step will populate the correct bin directory.
12. Restart ArcGIS Monitor Administrator and **Open** connection. This action re-reads the bin folder.
13. Select **Ext**. Then right-click to select **Add.**
14. Click the **+** button to expand Ext tree.
15. Select the **New Ext** and Type in a **Name** (a brief description).
16. Choose **Type** as **MyNewExtension** (from line 13 of TestCmd.js)
17. Input other parameters such as **Program**, **File**, and **Config**.
18. Set **Sample Interval**.
19. Optional: Type in a **Description**.
20. Click the **Test** button. If the path, parameters, and code are correct, the test bar should turn green, indicating success.
21. The program is now scheduled to execute at the sample interval.
22. Select **File > Save**.

23. After the sample interval time has passed, metrics can then be viewed in the ArcGIS Monitor Server web page under **Site > Catalog.**

Getting Help

If you need more help with extension configuration and data analysis, Esri has Professional Services engagements that can assist you. Gallery extensions are outside the scope of Esri Technical Support.

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