

SET UP WEB MAPS & AUTOMATED UPDATES USING ARCGIS API FOR PYTHON

Development Activity Tracker - City of Toronto (2221)

Authors

Terrie-Ann Broomfield, Xin Wen, Peggy Wong

GIS Application Specialist and GIS Cartographic Specialist

Client

Scott Whynot

City of Toronto | Graphics and Visualization Supervisor

Advisor

Kendra Chalmers

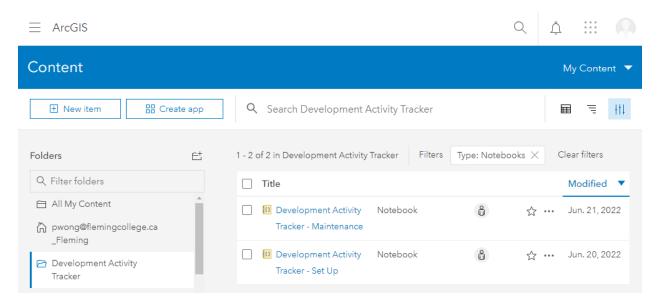
Sir Sandford Fleming College | Instructor

June 22, 2022

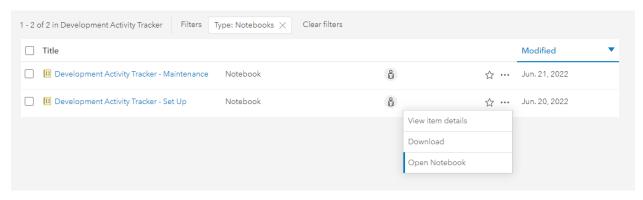


This set up guide provides step-by-step instructions to run the setup script and set up the maintenance script for Development Activity Tracker.

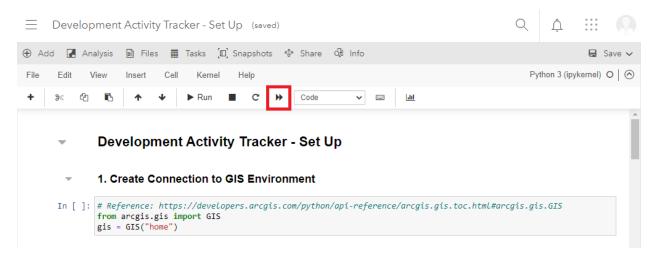
Step 1: Add *Development Activity Tracker – Set Up* and *Development Activity Tracker – Maintenance* to the Portal.



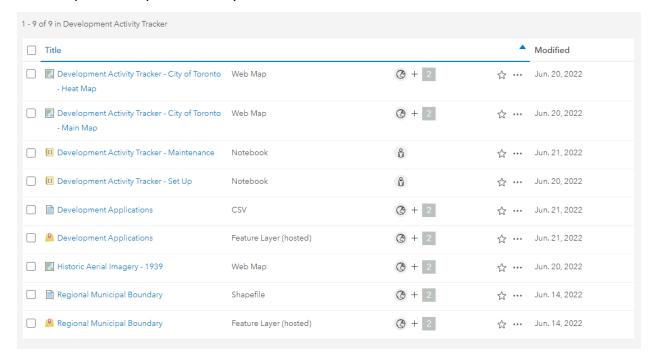
Step 2: Open Development Activity Tracker – Set Up.



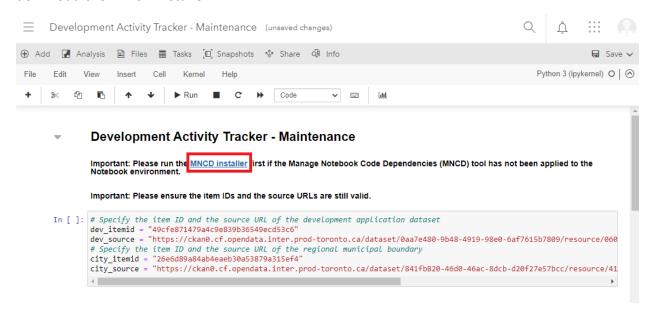
Step 3: Run *Development Activity Tracker – Set Up* to publish the hosted feature layers and set up the web maps. Click the double arrow button (red border) to restart the kernel and run the whole notebook.

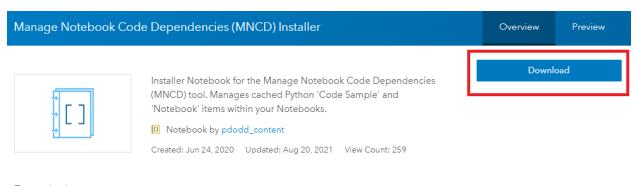


Step 4: Once finished, the hosted feature layers and the web maps should be added to the Portal. Open *Development Activity Tracker – Maintenance*.



Step 5: Manage Notebook Code Dependencies (MNCD) must be first applied to the notebook environment. Click the hyperlink in the notebook (red border) or go to https://www.arcgis.com/home/item.html?id=46c7512604654601ab4338f9299c5414 to download the MNCD Installer.





Description

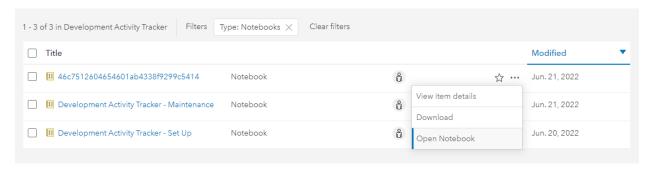
Dealing with large Notebooks can be daunting. Wouldn't it be nice to import existing logic from other Modules and Code Libraries just like you can with standalone installs of Python? Well, now you can! The Manage Notebook Code Dependencies (MNCD) tool allows you to manage a cache of Python 'Code Sample' and 'Notebook' item content in your user home folder. Once cached, the content from these items can be imported into your Notebook using the Python import statement, just like your standalone scripts do. Once you import the Python modules from these items, they become 'Code Dependencies' to your Notebook.

This Notebook contains logic that will install, update, or remove the MNCD tool. Logic designed to manage caching of Python 'Code Sample' and 'Notebook' item types from ArcGIS Online, unpacking and storing their contents in your user account home directory accessible to the Notebook Kernel.

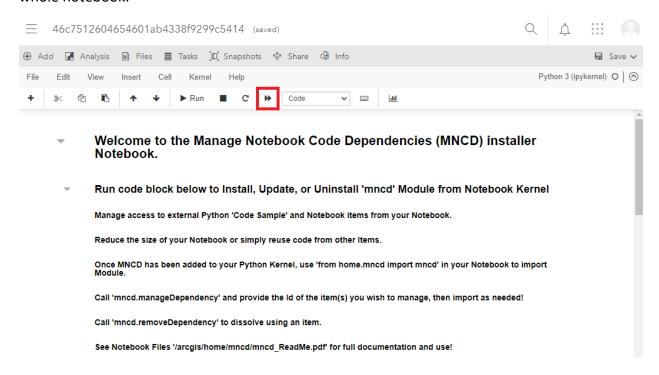
Once the Python objects are stored, their path is then added to Python's import path, allowing Python to import external Modules, Classes, and Functions right to your Notebook.



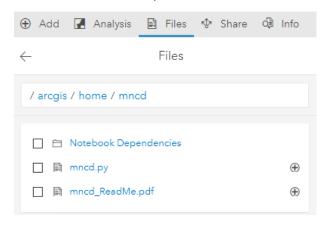
Step 6: Open 46c7512604654601ab4338f9299c5414 (MNCD Installer).



Step 7: Run *46c7512604654601ab4338f9299c5414* to apply MNCD to the notebook environment. Click the double arrow button (red border) to restart the kernel and run the whole notebook.



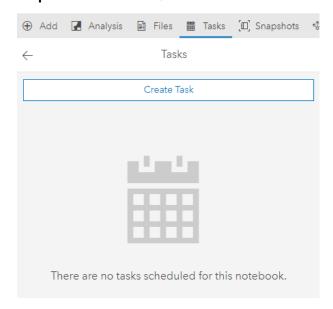
Step 8: Once finished, go to *Files* to ensure the MNCD tool is applied to the notebook environment correctly.



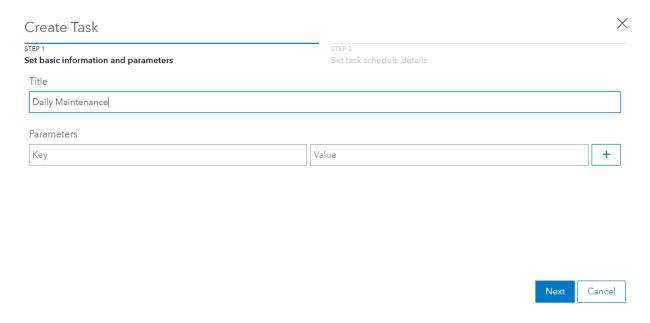
Step 9: Go back to *Development Activity Tracker – Maintenance*. Change *dev_itemid* and *city_itemid* to the item IDs of your own hosted feature layers.

Important: Please ensure the item IDs and the source URLs are still valid.
In []: # Specify the item ID and the source URL of the development application dataset
dev_itemid = "49cfe871479a4c9e839b36549ecd53c6"
dev_source = "https://ckan0.cf.opendata.inter.prod-toronto.ca/dataset/0aa7e480-9b48-4919-98e0-6af7615b7809/resource/060be258-88ef# Specify the item ID and the source URL of the regional municipal boundary
city_itemid = "26e6d89a84ab4eaeb30a53879a315ef4"
city_source = "https://ckan0.cf.opendata.inter.prod-toronto.ca/dataset/841fb820-46d0-46ac-8dcb-d20f27e57bcc/resource/41bf97f0-da1a

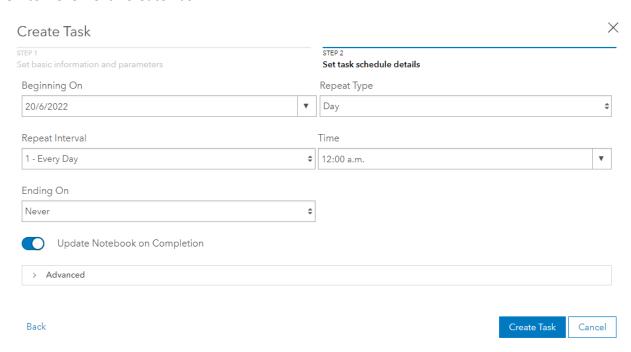
Step 10: Go to *Tasks* \rightarrow *Create Task* to create a scheduled task for the notebook.



Step 11: Enter the title of the scheduled task. Click *Next*.



Step 12: Set *Repeat Type* to Day, *Repeat Interval* to Every Day, *Time* to 12:00 a.m., and *Ending On* to Never. Click *Create Task*.



Step 13: The scheduled task is now active and the hosted feature layers will be updated automatically on a daily basis.

