Copy specific resources from data factory A to B

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

Contents

Issue

Generate ARM template for specific resources

Solution/Workaround

Approach 1

- Download this Microsoft preview VS Code extension and install it:
  https://marketplace.visualstudio.com/items?itemName=msazurermtools.azurerm-vscode-tools ⤢

- Export the data factory ARM template through the UX

- After that's done, open the ARM template JSON using VS Code and the user will see one window like the one below:
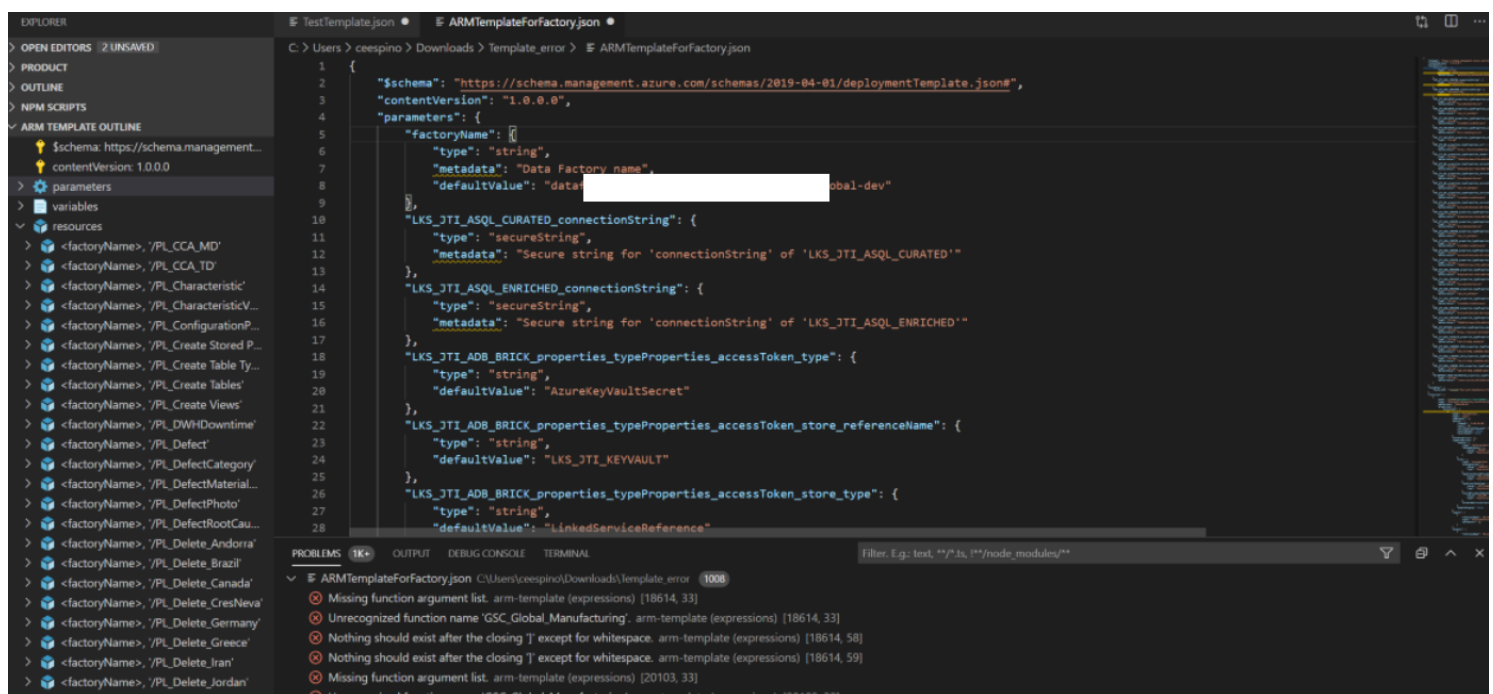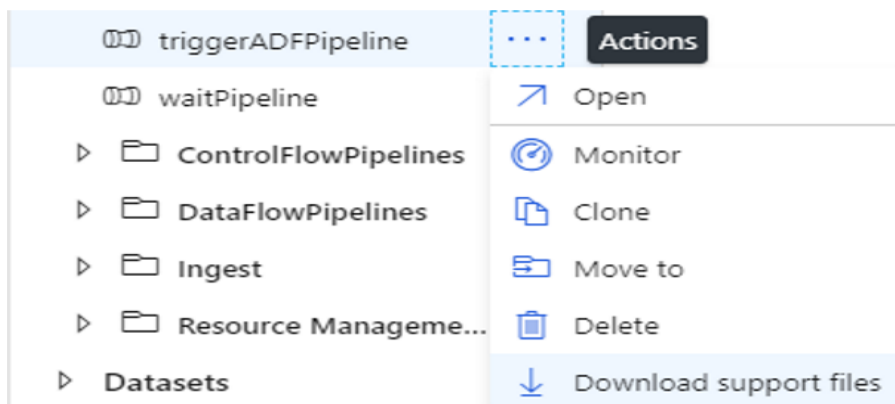

- In the left pane, the customer can select the resources and parameters to remove. They basically just need to click it (and the extension will jump to the JSON code of that resource and autoselect it) and then

remove it.

- This extension is nothing more than an utility that understands the ARM template language and parses the schema, resources, parameters and variables, so the user can use the IDE to remove, edit or create any resources that they want.

- Be careful of not deleting dependencies (e.g., deleting a linked service that other resources depend on), otherwise the customer will hit deployment errors.

Approach 2

- There's currently no support for generating an ARM template for specific resources (therefore, there's no way to generate an ARM template to deploy specific resources into another data factory), so below is a temporal workaround:

- If the customer wants to copy specific resources from Data Factory A to Data Factory B, they can:

- For each resource, download the support files for the resource that they want, e.g.,

- This will download a Zip with the resource and its dependencies files inside:

- Within each folder is the JSON that represents the resource

- You will end up with one zip folder for each resource that you want to copy.

  - Extract all zips pipeline folders into an external global pipelines folder (you are just basically putting all pipelines altogether)
  - Do the same for datasets, linked services, etc.
  - It's normal if you overwrite some files doing this since it is possible to have duplicates since the user may want to copy a resource that is already a dependency of another.
- Now, using your external folders, to copy this to the new data factory:

- First, open the linked service folder (to see all the needed linked services names) and **create manually through the UX those linked services** in the target data factory, use the source data factory as reference to create them. (if those linked services are associated with AKV, then you can just copy them to the linked service folder in the git repository, otherwise, don't do it or you may run into out of sync publish errors). This step applies for Integration Runtimes as well.

- Once the linked services (and IRs if needed) are created in the target data factory, you can just drop the datasets JSONs from the external folder into the git dataset folder of the target data factory.

- You can do the same with the pipelines.

- Go to your target data factory and publish the changes.

Again, we do not support exporting an ARM template with specific resources, so this is just a workaround to help customers to copy resources (along with its dependencies) from one data factory to another.

Additional Information:

- **Icm References:** Link ↗

- **Author:** ceespino

- **Reviewer:** vimals

- **Keywords:**

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