

# Lab 7 - Global Parameters

---

## Requirements

In order to start the lab, it is important that Lab5 is completed and that the Virtual Machine is booted up and the IR is running.

## Objective

Yesterday, we set up the ADF from A to Z and ran pipelines. As mentioned in Lab2, it can happen that another team also has an ADF and there might be a dependency between both ADFs or to other services. In the lab, we will tackle this by executing the pipeline in adf-linked using an API-call.

Follow the instructions step by step.

## Assignment 1 - Global parameters

1. Go to the ADF (adf.azure.com) and choose the **Non** linked ADF.
2. Click on the **toolbox** (Manage) on the left. Then click on **Global parameters** on the left.
3. Click on **New**, a new screen will appear. Fill in the following for **Name: SubscriptionID** and your subscriptionID for **Value**. You can find this in the URL of the ADF.

Example: <https://adf.azure.com/en-us/management/globalparameters?factory=%2Fsubscriptions%2Ffae3cd10-ede1-4e32-b796-362b72f8e236%2FresourceGroups%2Frg-adf-training%2F>

It is important not to copy the %2F. Based on the example, the SubscriptionID would be: **fae3cd10-ede1-4e32-b796-362b72f8e236**

4. Repeat step 3, but now create a Global parameter named: **Resourcegroup** with as **Value** the resource group name, which you can also copy from the URL.
5. Repeat step 3, but now create a Global parameter named: **DataFactory** with as **Value** the name of the adf-linked, which you can find in your resource group.
6. Repeat step 3, but now create a Global parameter named: **Pipeline** with as **Value** the name of the pipeline in the adf-linked, **PL\_Wait**.
7. Click on the **Blue button** with the text **Publish all** and then on the button **Publish**.

We have now created four parameters at *factory* level. These are global constants that can be used throughout the entire Data Factory. In this way, you can easily manage settings centrally.

## Assignment 2 - API caller

1. Click on the **Pencil** (Author) on the left and create a new pipeline.
2. Give the pipeline a clear name.
3. From the list of **Activities**, click on the **General** option. Click and drag **Web** onto the canvas.

4. Give the **Web block** a clear name and then click on the **Settings** tab.

5. Click on the field next to **URL** and then on **Add dynamic content**.

6. Paste or type the following code into the field:

```
https://management.azure.com/subscriptions/@{pipeline().globalParameters.SubscriptionID}/resourceGroups/@{pipeline().globalParameters.Resourcegroup}/providers/Microsoft.DataFactory/factories/@{pipeline().globalParameters.DataFactory}/pipelines/@{pipeline().globalParameters.Pipeline}/createRun?api-version=2018-06-01
```

If you want to know more about the possibilities of the Data Factory REST API, you can read about it in the [Microsoft documentation](#).

7. Choose **POST** for **Method**.

8. Fill in the field next to **\*\*body**

**\*\* with:** {}.

9. Choose **System Assigned Managed Identity** for **Authentication** and fill in the following for **Resource:** <https://management.core.windows.net/>.

10. Click on **New** next to **Headers** and fill in the following for **name:** **Content-Type** and for **value:** **application/json**.

11. Choose the self-named **Azure IR** under **Advanced** for **Integration runtime**.

12. Click on the **Blue button** with the text **Publish all** and then on the button **Publish**.

## Assignment 3 - Linked ADF pipeline

1. At the top right of the screen, you will see a row of icons. Click on the second from the left, the icon with **the 2 screens and arrows** (Switch Data Factory).

2. A new screen will appear, and most of it will already be filled in. Choose the adf-Linked at **Data Factory Name** and then click on **OK**.

3. Create a new pipeline named: **PL\_Wait**.

4. From the list of **Activities**, click on the **General** option. Click and drag **Wait** onto the canvas.

5. Give the **Wait block** a clear name.

6. Then click on the **Settings** tab and change the **Wait time in seconds** to 10.

7. Click on the **Blue button** with the text **Publish all** and then on the button **Publish**.

8. Switch back to the **non** linked adf in the same way as steps 1 and 2.

9. Click on the pipeline you created in Assignment 2, then click on **Debug**.

10. Once the pipeline is completed, switch back to the adf-linked via steps 1 and 2.

11. Click on **Monitor** on the left side. You will now immediately land on **Pipeline runs** and **PL\_wait** should be among the list of executed pipelines.
12. Finally, you could take a look at the run time of the two pipelines (in the linked and the non-linked factory). What do you notice? How would you explain this?

## Table of Contents

1. [Preparing the Azure environment](#)
2. [Integration Runtimes](#)
3. [Linked Services](#)
4. [Datasets](#)
5. [Pipelines](#)
6. [Triggers](#)
7. [Global Parameters](#)
8. [Activities](#)
9. [Batching and DIUs](#)