Lab 8: Monitoring your Triggers and Pipelines with ADF

Technologies showcased: ADF Visual Monitoring

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## Summary

This tutorial walks through using the Azure Data Factory monitoring tools to view info about your triggers, pipelines, and integration runtimes.

Note: This tutorial uses pipelines/triggers created from previous labs, but the steps could be followed for any pipeline.

In this lab we will:

* Monitor our Pipeline execution including drilling down to activates executed
* Monitor the status of our trigger event
* View the status of the integration runtimes

## Pre-requisites

* Azure Subscription with rights to use/deploy Azure services, and X of Azure credit
* Azure Data Factory
* Azure Data Factory Pipeline with a fired trigger

## Scenario

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| Part 1 – Monitoring Pipeline Executions and Activities | | |
| **Scenario** | | |
| We will be using the ADF visual monitoring tools to see the statuses of our pipeline runs as well as drill down into individual activity executions. | | |
| **Commentary / Notes** | **Click Steps & ‘Bits’** | **Screenshots** |
| We will be using the Azure Data Factory we created in Lab 01 called adflab-adf and the pipelines and trigger created in Labs 3 through 7. | 1. Navigate to the Azure portal within your web browser and navigate to <https://portal.azure.com> 2. Open the Azure Data Factory blade [adflab-adf], pinned from a previous lab but if not navigate to it using the All Resources menu item. |  |
|  | 1. In the Overview blade you should see the following Quick Links: |  |
|  | 1. Click the Pipeline Editor button and you should see graphical user interface Overview page. |  |
|  | 1. In the left ribbon menu click the Gauge icon to navigate to the monitoring pane. |  |
| Note that here you can see the name of the pipeline and the status as well what caused the Pipeline to trigger. In our scenario the Master – Begin DW Load pipeline was triggered via our daily trigger and then the other piplelines were executed by that master pipeline. | 1. You should now see the Monitor Pipeline Runs log. 2. Click the [@] icon under the Parameters column in the Master- Begin DW Load row. |  |
| In our case we set the recipient parameter as part of the trigger. This controlled where the Logic App sent the success/failure emails to. | 1. You should now see what parameters were used by pipeline at run-time. 2. Click the X to return to the Monitor Pipelines log. |  |
| We can drill in to see each activity executed during a pipeline run. This can be very useful to see which control flow paths that the pipeline used at runtime. | 1. Next to each Pipeline row you should see an Actions column. 2. Click the pipeline icon with the play button (left icon) next to the Master- Begin DW Load |  |
|  | 1. You should now see the individual activities that were executed during the Master – Begin DW Load pipeline run. |  |

|  |  |  |
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| Part 2 – Monitoring Trigger Executions | | |
| **Scenario** | | |
| We will be using the ADF visual monitoring tools to see the statuses of our trigger exeuctions. | | |
| **Commentary / Notes** | **Click Steps & ‘Bits’** | **Screenshots** |
| We will be continuing from the previous section. | 1. From the Monitor menu dropdown at the top select Trigger Runs. |  |
| Here we get essentially a “job” overview status to see all of our scheduled and event trigger runs. | 1. You should now be at the Trigger Runs activity log. 2. Click the Gear icon under the Properties column in the Daily – DW Load Trigger row. |  |
|  | 1. You should now see the Properties of the trigger run including trigger’s scheduled time vs. actual execution time. 2. Click the X to return to the Trigger Runs activity log. |  |
| Part 2 – Viewing your Integration Runtime status | | |
| **Scenario** | | |
| We will be using the ADF visual monitoring tools to see the statuses of our integration runtimes including our SSIS runtime created in Lab 2. | | |
| **Commentary / Notes** | **Click Steps & ‘Bits’** | **Screenshots** |
| We will be continuing from the previous section. | 1. From the Monitor menu dropdown at the top select Integration Runtimes. |  |
|  | 1. You should now see your Integration Runtimes status page. |  |
|  | 1. Next to each Integration Runtime name you should see the Actions column. 2. Click the Icon to see detailed information for the integration runtime. |  |
| The detailed information for Azure runtimes contains the same info as the overview table currently. | 1. Click the Integration Runtimes hyperlink to return to the Integration Runtimes overview page. |  |
| We are using the SSIS runtime we created in Lab 2 to see the detailed properties. | 1. Click the icon under the Actions tab for the SSIS Runtime. |  |
| The information here is useful to see how your current SSIS runtime is configured and being utilized. | 1. You should now the SSIS runtime detailed properties. |  |

**IMPORTANT: AVOID INCURRING EXTRA CHARGES BY PAUSING YOUR SUBSCRIPTION RESOURCES**