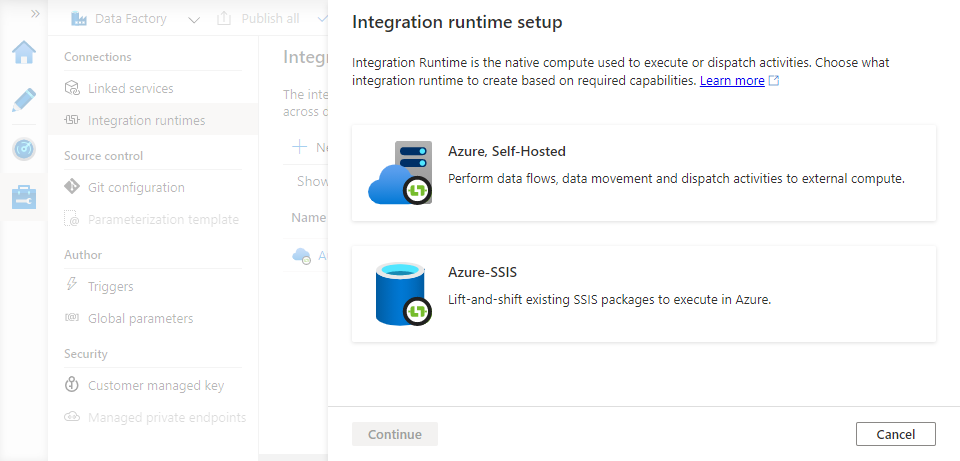
Lab 3 – Run SSIS packages in ADF

In this lab you will provision an Azure-SSIS integration runtime (IR), deploy a SSIS package to an Azure-hosted SSIS catalog and run it in Azure Data Factory.

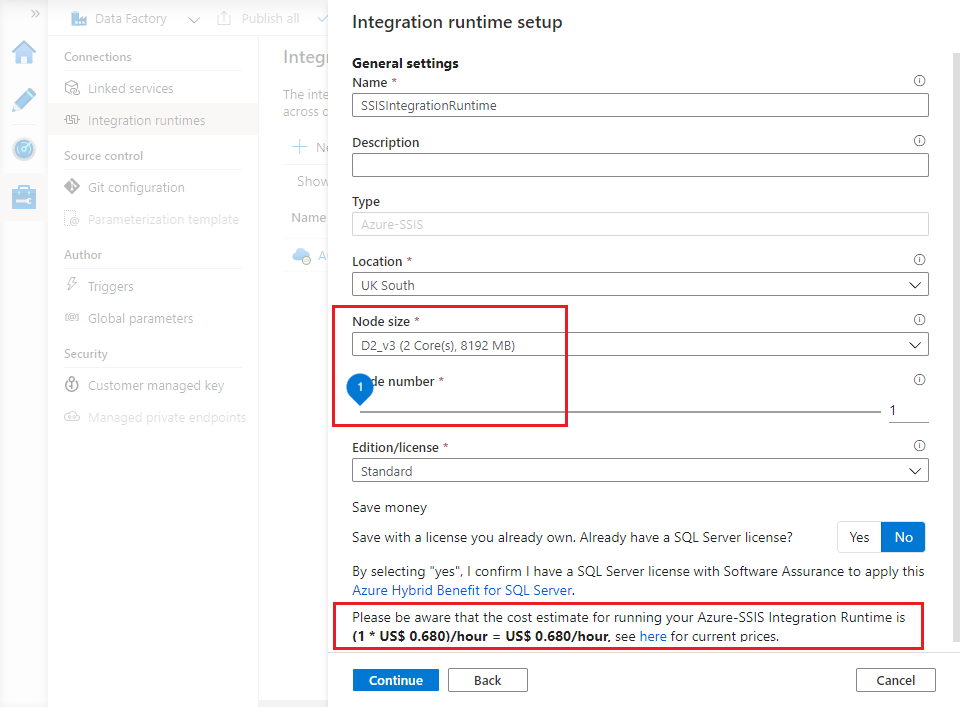
# Lab 3.1 – Create SSIS Integration Runtime

ADF runs SSIS packages using a special Azure-SSIS integration runtime – basically an instance of SQL Server Integration Services running in the cloud. Create an Azure-SSIS IR like this.

1. In the ADF UX, open the Management Hub and select “Integration runtimes” from the “Connections” section of its sidebar.
2. In the main Integration runtimes pane click “+ New”.
3. Select the “Azure-SSIS” tile and click “Continue”. This launches a three-step wizard to create a new Azure-SSIS IR.



1. In step 1 of the wizard, provide General settings for the IR:
   * Give it a name
   * Choose the same location as your data factory
   * Choose the **smallest** option from the “Node size” list. This is just to keep the cost of the lab exercise down – in production environments you will want a node size that gives you the performance you need. Try choosing a few different values to see the effect on the cost estimate displayed at the bottom of the blade.
   * Set “Node number” to 1. Again, this is to keep your lab costs down! Try choosing a few different values to see the effect on the cost estimate displayed at the bottom of the blade.
   * Accept the other option defaults and click “Continue”.



1. In step 2 of the wizard…

Settings #3 – accept defaults, click Continue

Settings summary – check settings, especially performance/cost. Click Create.

Wait for it to start. Takes a few minutes.

Take a look at your SQL server – you can see AdventureWorks and SSISDB.

# Lab 3.2 – Deploy SSIS packages

Needs Azure SSIS Feature Pack for SQL 2017, 32 bit

Open solution, CopySalesOrderDetail.dtsx. What package does

Edit connection managers

* AzureSqlDatabase: Server name, User name, Password (+DB if you called it something different). test connection.
* AzureDataLakeStorage

Right click project, deploy. Wizard:

* Overview
* Choose “SSIS in Azure Data Factory”, click “Next
* Enter server name, login, password, click “Connect”. Path un-greys.
* Browse for Folder or Project dialog – New folder…
* Path populates, click “Next”.
* Review, click “Deploy”. SSIS IR must be runnibg!
* Close

Can see deployed package in catalog

# Lab 3.3 – Run the SSIS package in ADF

1. New pipeline
2. Add activity
3. Settings
   1. Azure-SSIS IR
   2. Package location pre-selected. Click Refersj
   3. Choose folder, project, package
4. Debug, look in lake

# Lab 3.4 – Stop the integration runtime

Stop SSIS IR!

Running -> Stopping -> Stopped