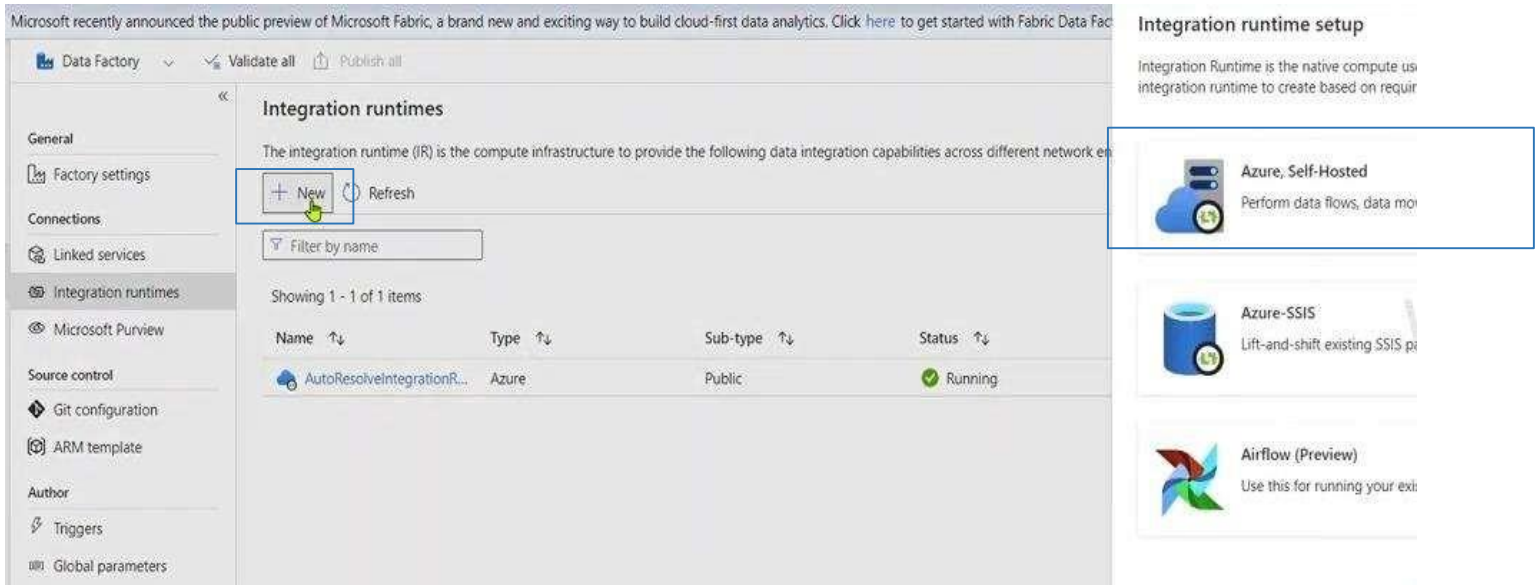
Azure Data Factory
Integration Runtimes

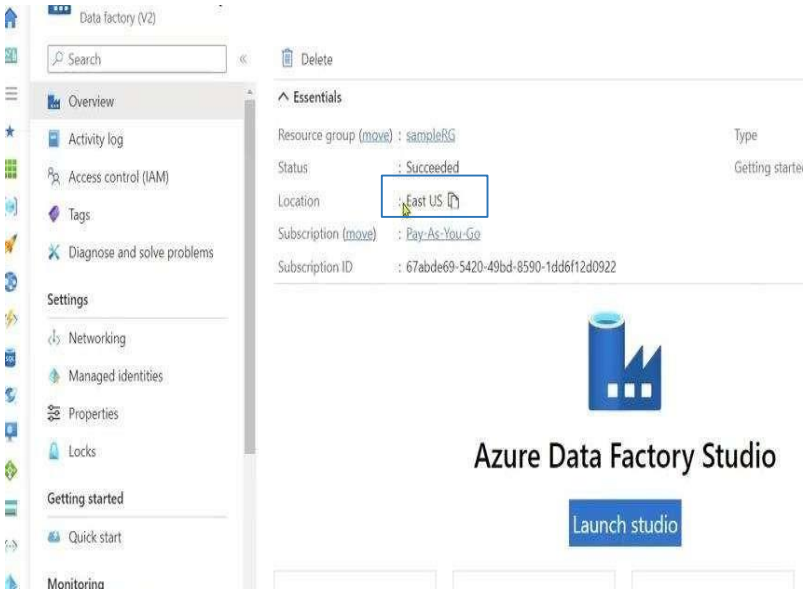
Step 1

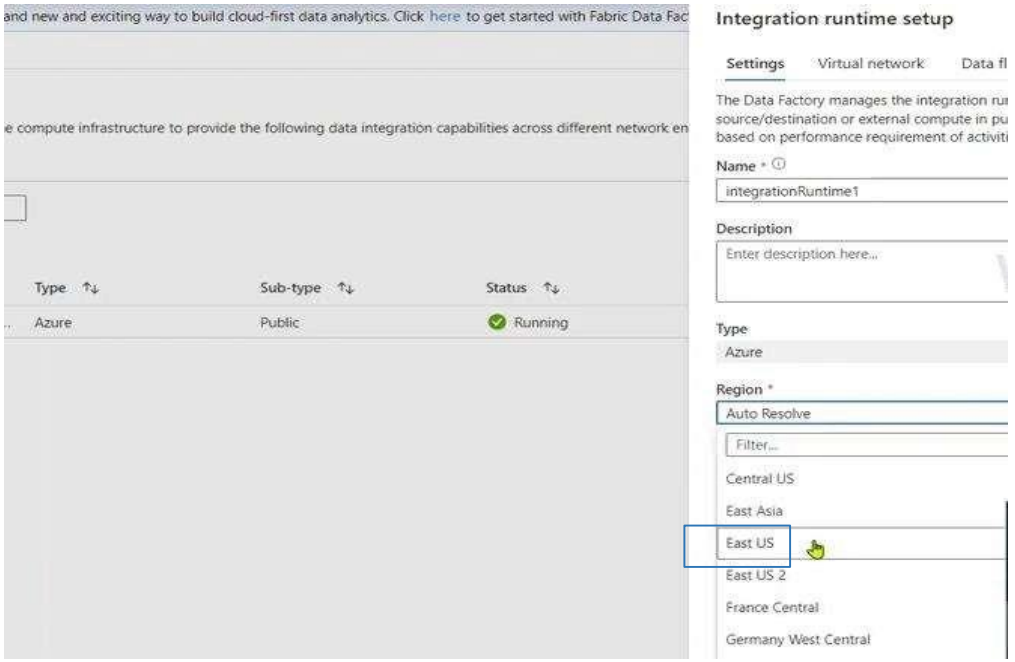
Firstly, Open Azure Data Factory go to manage tab and create a new azure integration runtime proceed with continue.



Step 2

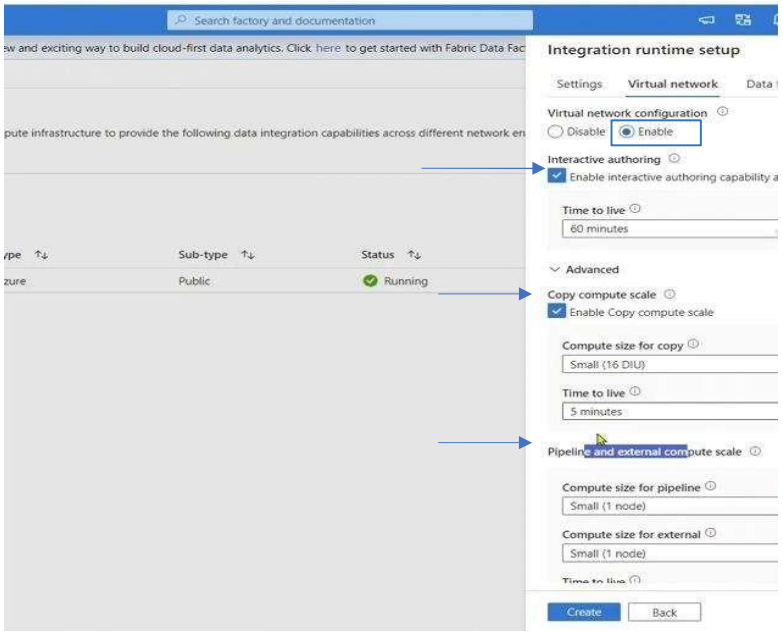
Make a new IR name and description whatever region selected to create Azure Data Factory account select only that region in IR region field if you selected region East US to create Azure Data Factory account then select only East US in IR region field proceed with continue.





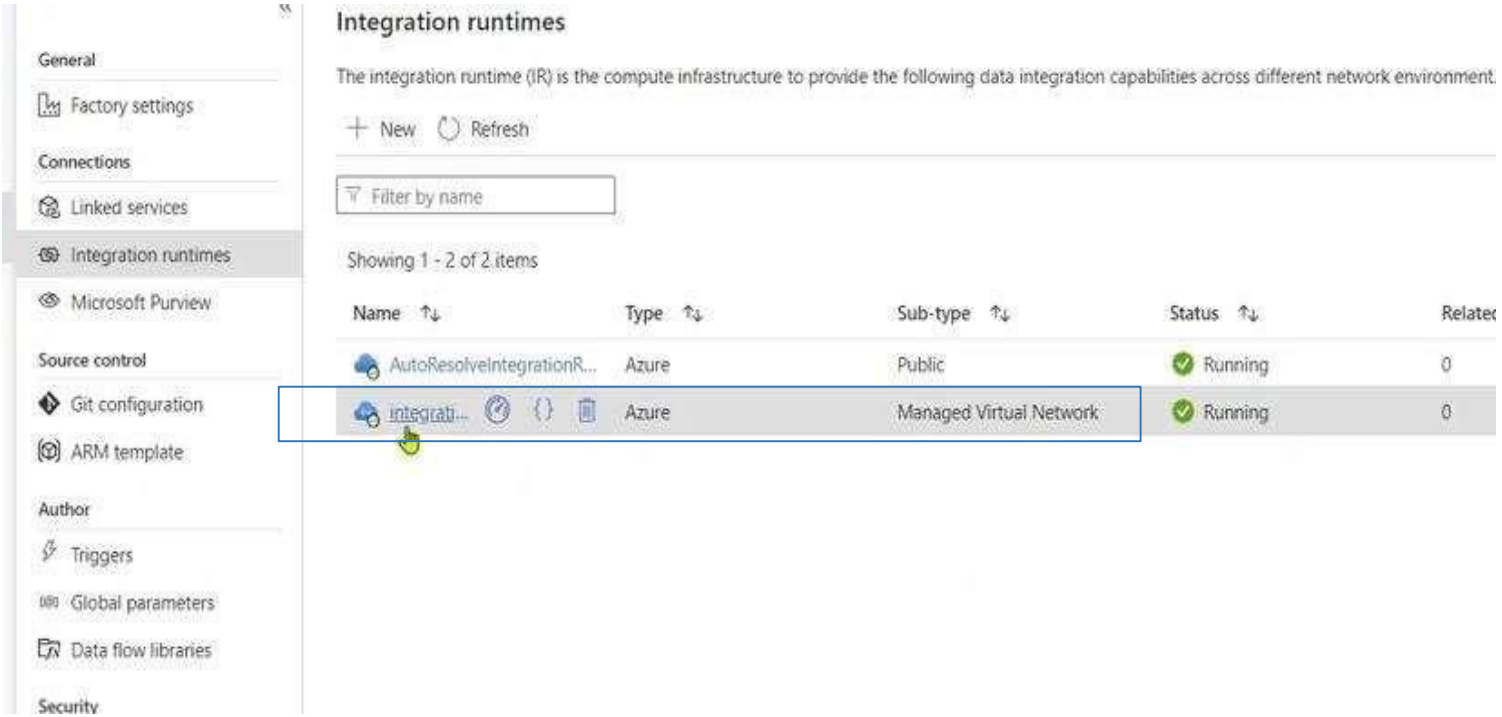
Step 3

In Virtual network enable virtual network configuration manage Vnet IR comes up with three option First, Interactive Authoring that is used to connect to the storages, Copy Compute scale that is used to copy the data and Pipeline and external compute scale that is used when you use other activities in a pipeline. Enable Interactive Authoring and Copy Compute scale go down and click on create button.



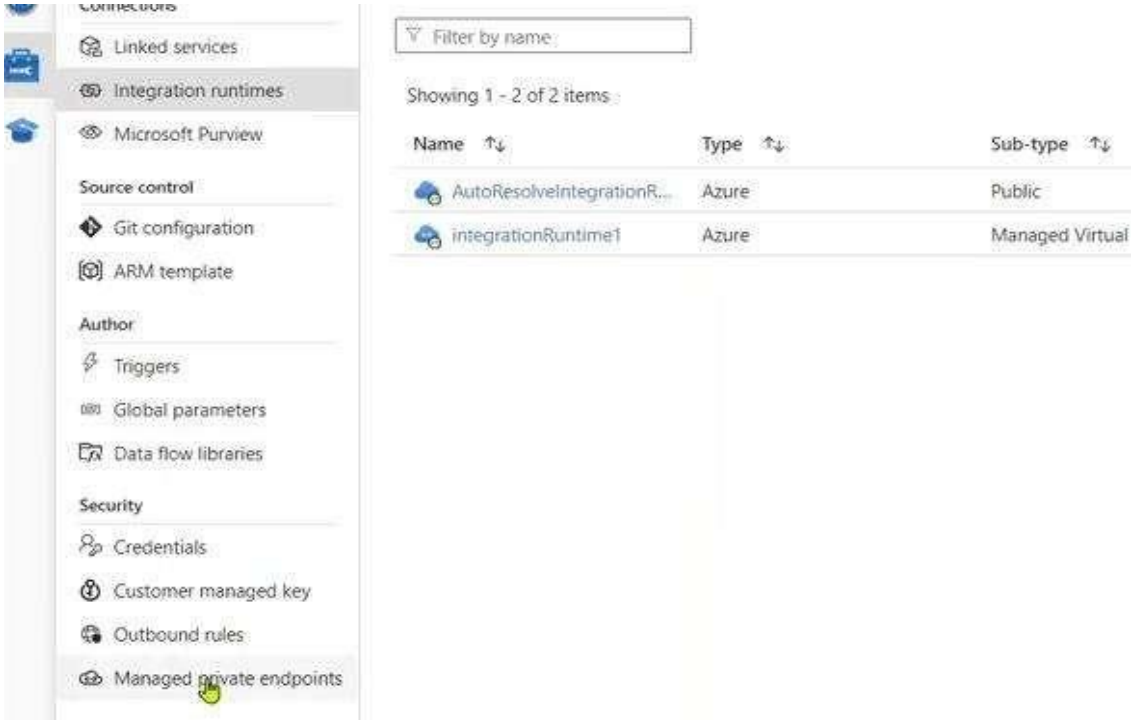
Step 4

Go back to Under integration runtime section you see Managed virtual network IR that is created in Virtual network.



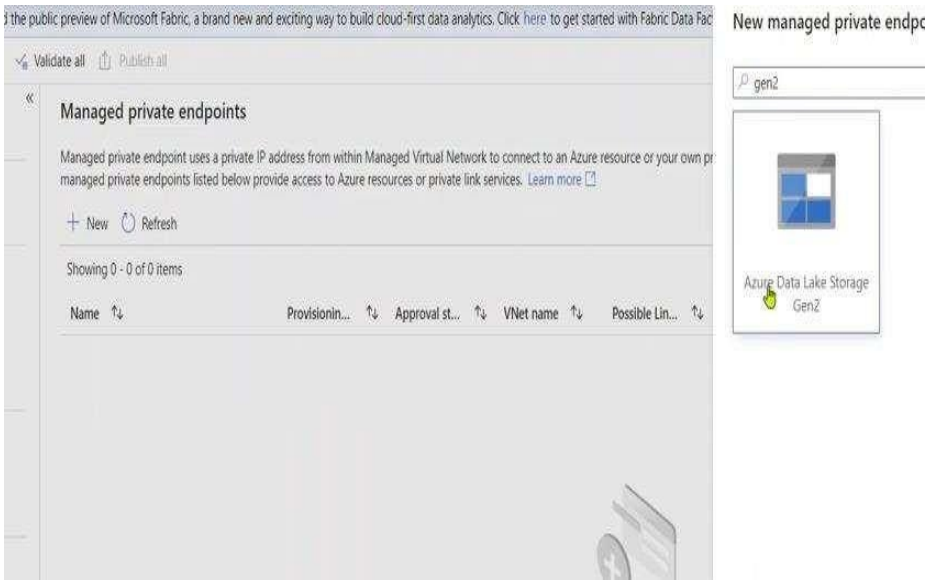
Step 5

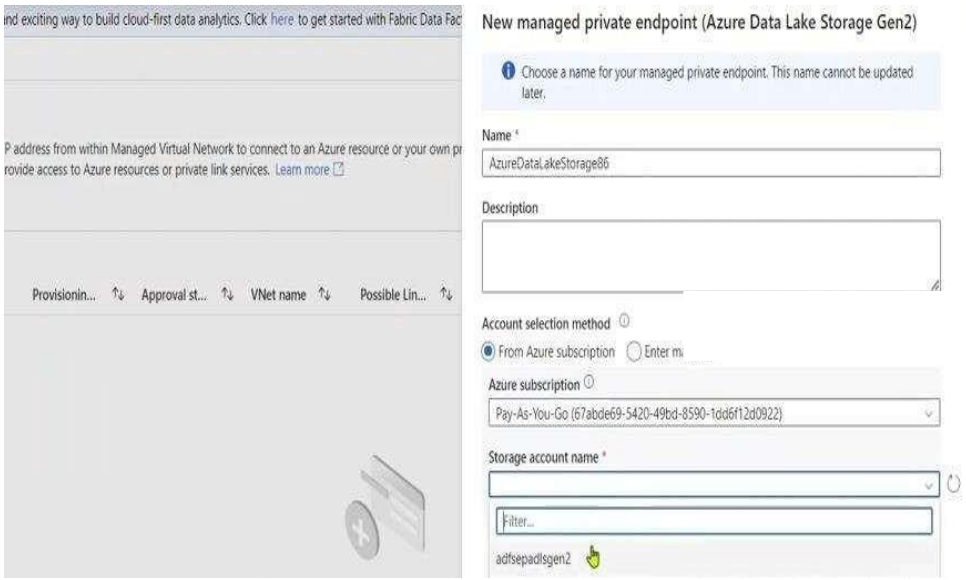
Vnet Integration runtime uses private endpoints to connect to storages to transfer data. Go to Azure Data Factory manage tab and create Managed private endpoints.



Step 6

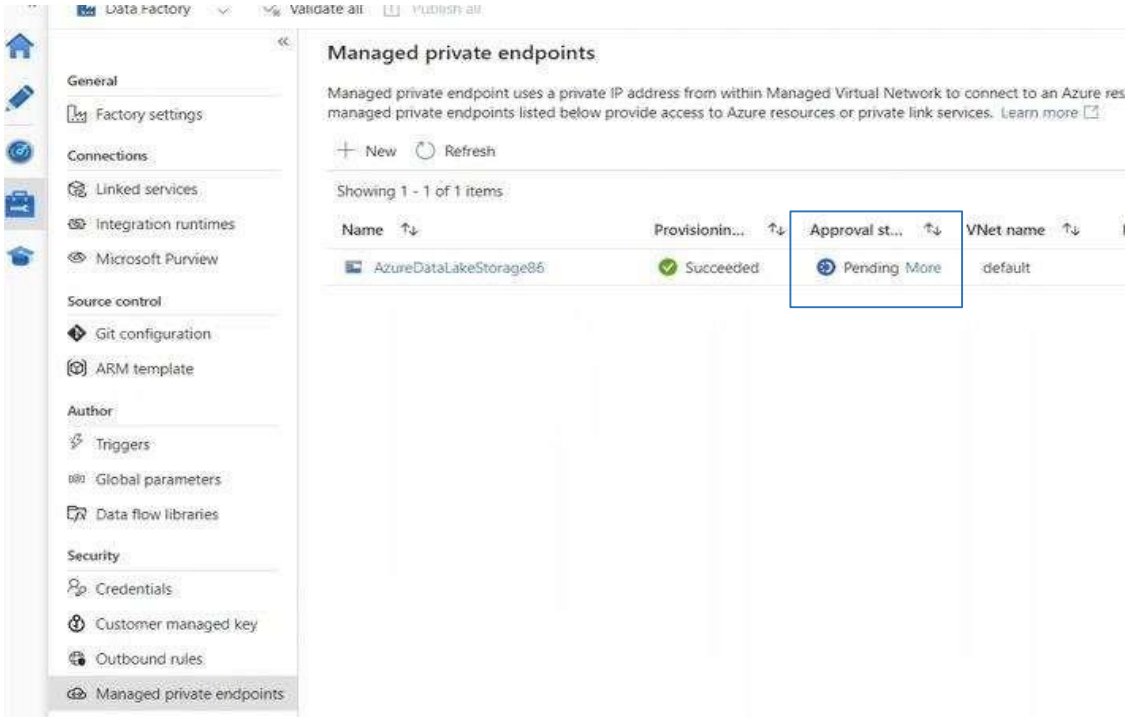
Select storage as ADLS Gen2 proceed with continue make a new managed private endpoints name writing description is optional select account selection method as from Azure subscription select subscription as pay as you go and select ADLS Gen2 storage account name click on create button.





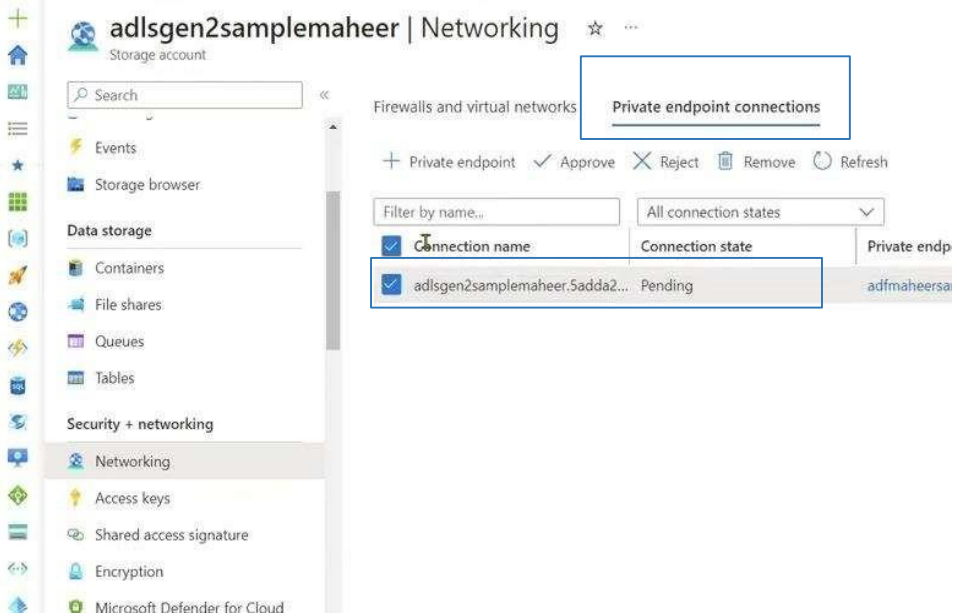
Step 7

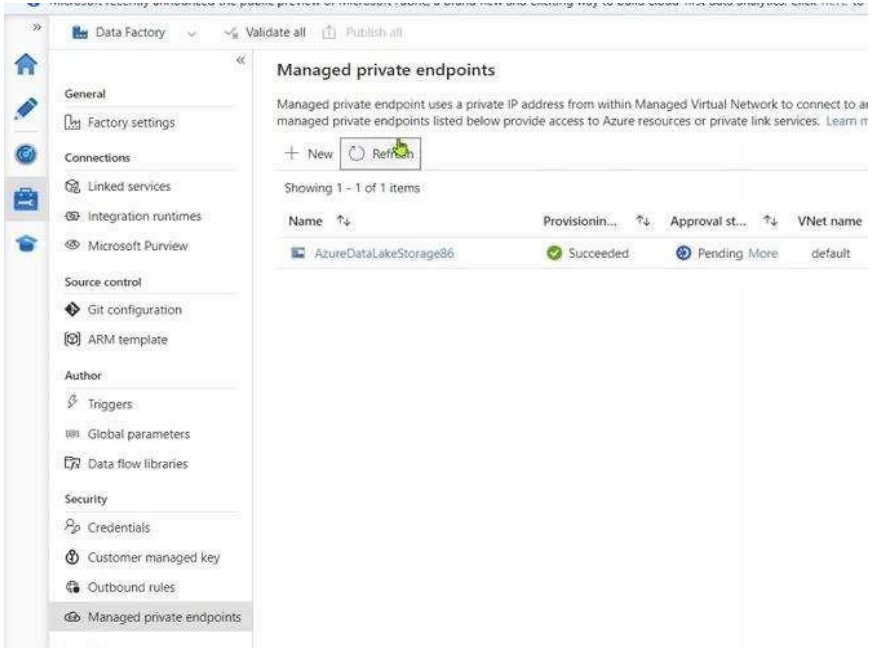
Go back to manage tab and go to Manage private endpoints you see Managed private endpoints created for ADLS Gen2 account it shows approval status pending.



Step 8

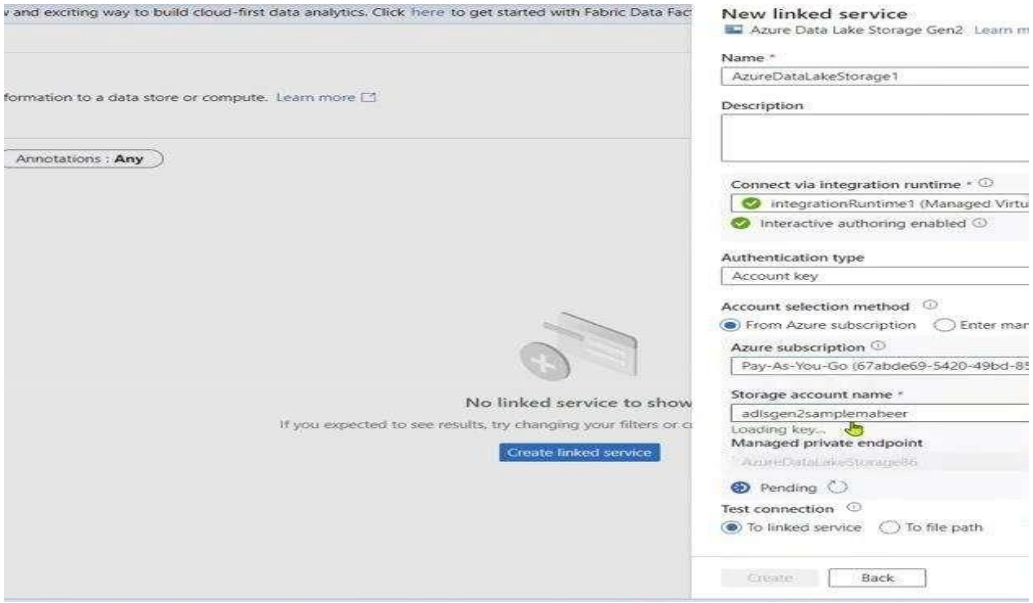
To Make Managed private endpoints approved successful go back to Azure portal go to storage account then go to storage account name that you select in endpoints go to networking then go to private endpoints connections enable pending connection name and click on approve. Wait for two to four untill approve makes successful in managed private endpoints.





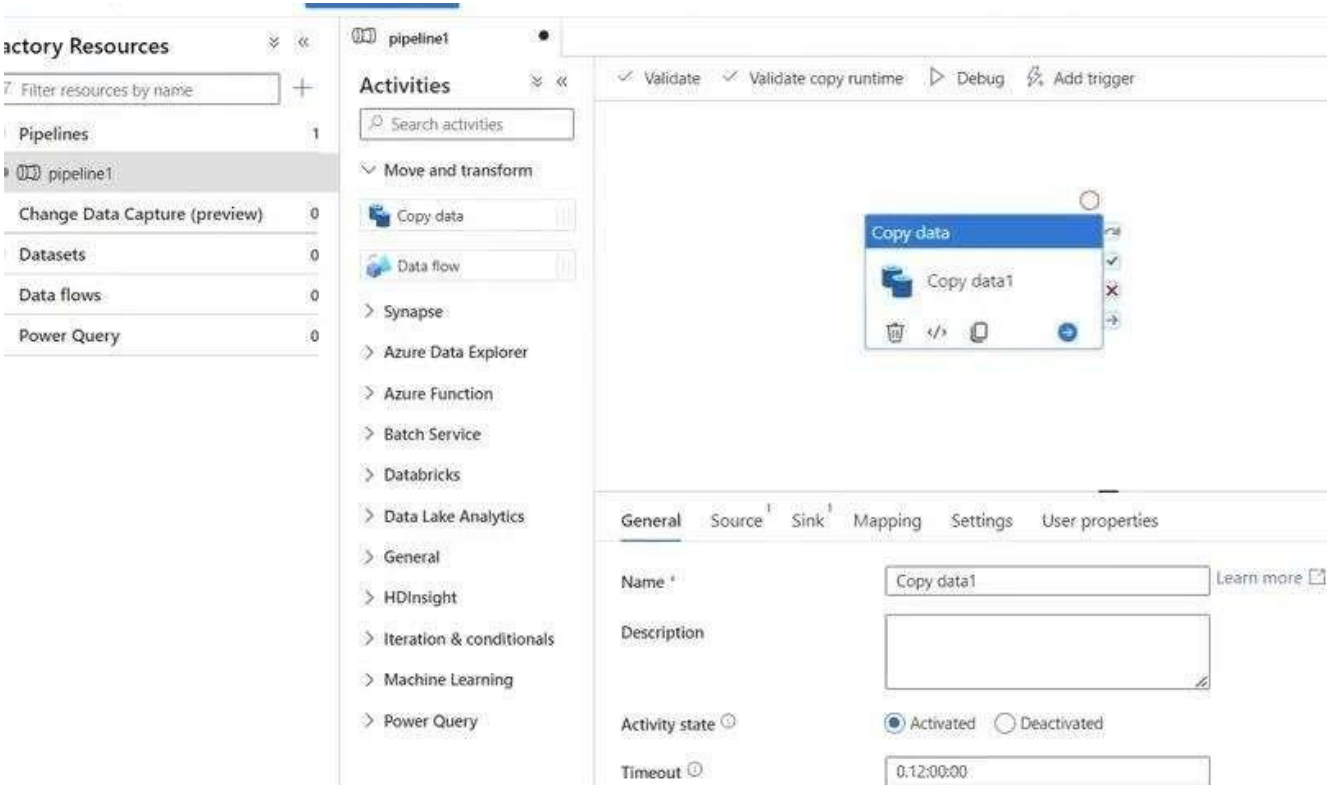
Step 9

The main agenda to create managed Vnet IR is we want to see secure data transfer from source to sink.In this step create a new linked service for ADLS Gen2 make a new linked service name select integration runtime as Managed Vnet select account method from subscription select subscription that you took and select ADLS storage account name and click on create make sure to test connection before creating linked service.



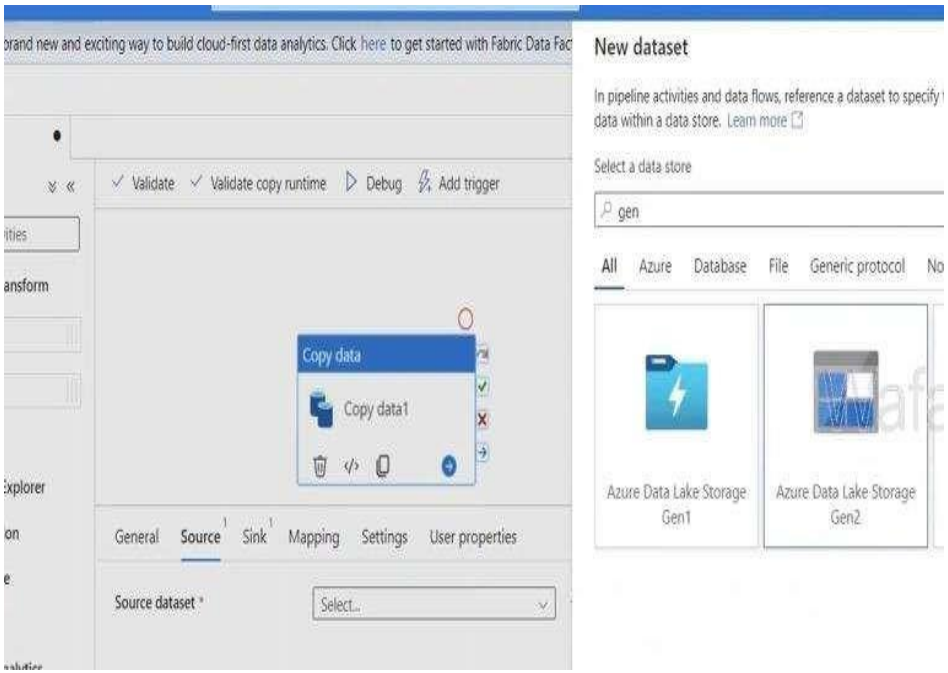
Step 10

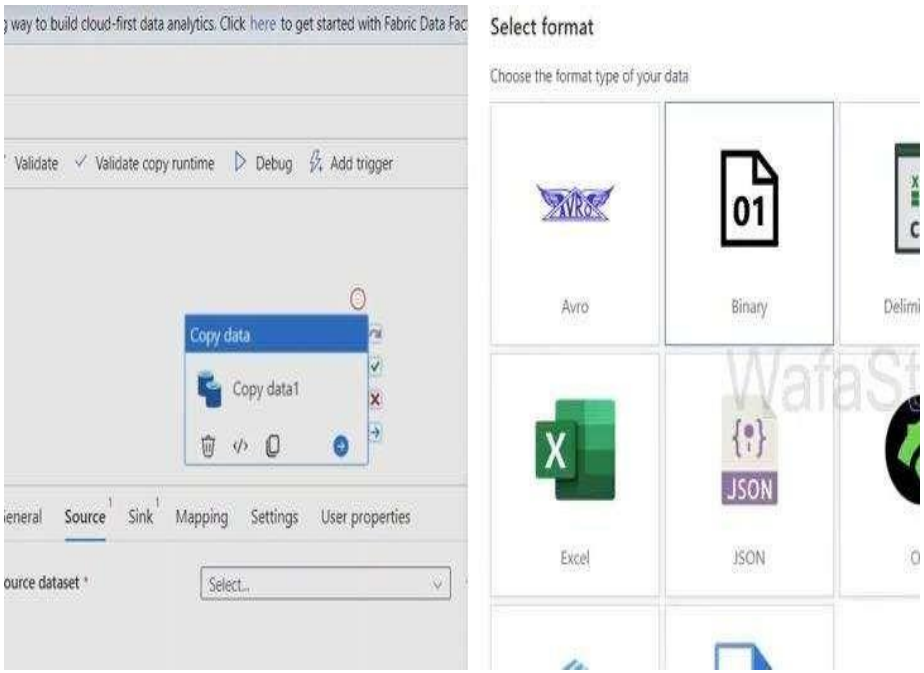
Create a new pipeline and add copy activity.



Step 11

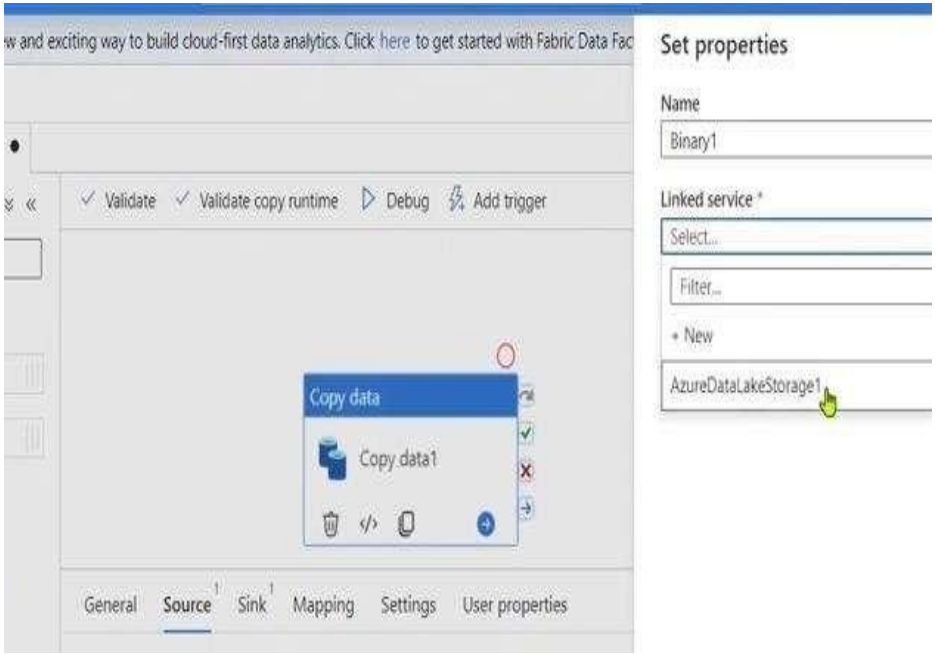
Go to source create a new dataset for ADLS Gen2 and select format as binary proceed with continue.

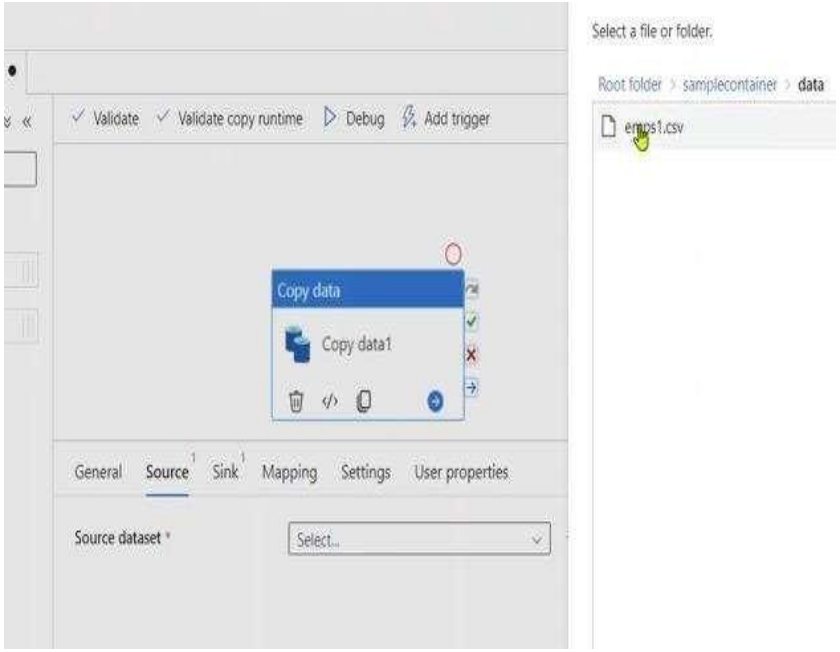




Step 12

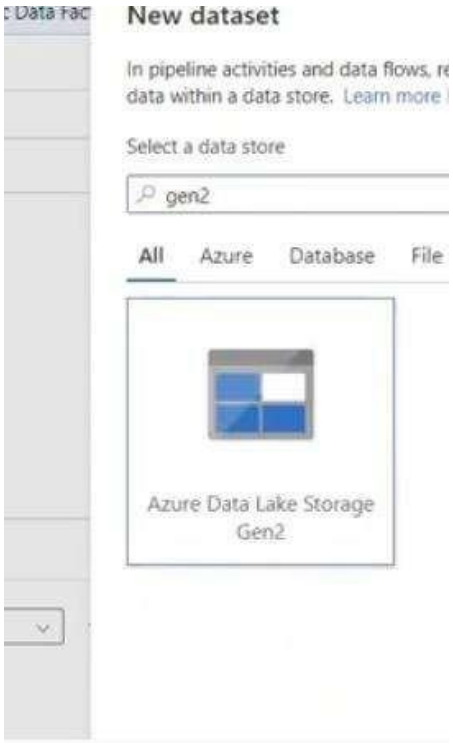
In set properties select the linked service that you created prior select .csv file from sample container proceed with done.

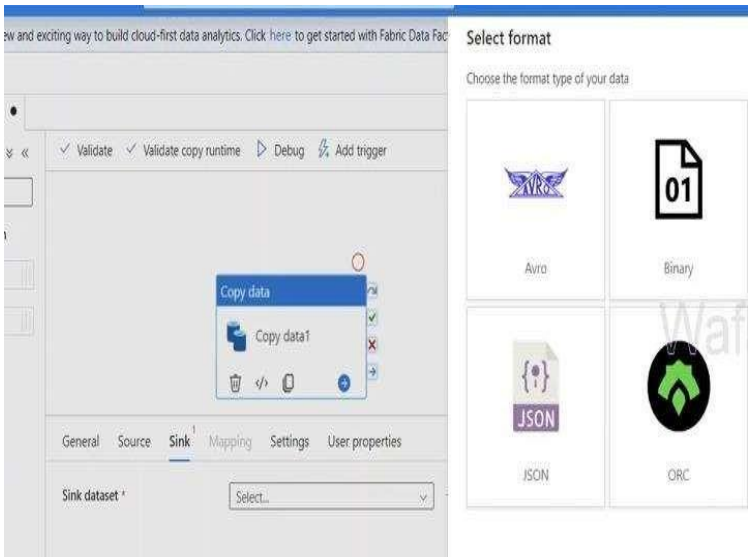


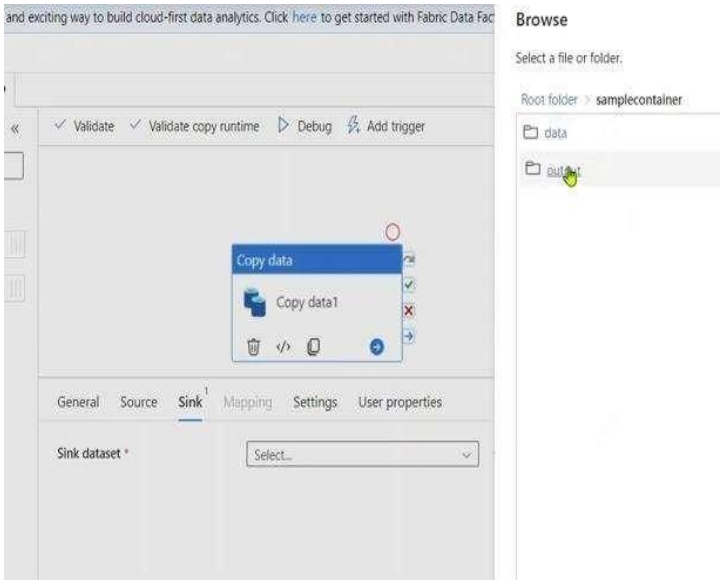


Step 13

Go to sink similarly create a new dataset for ADLS Gen2 select new dataset format as binary select the output container to store .csv file click on done.

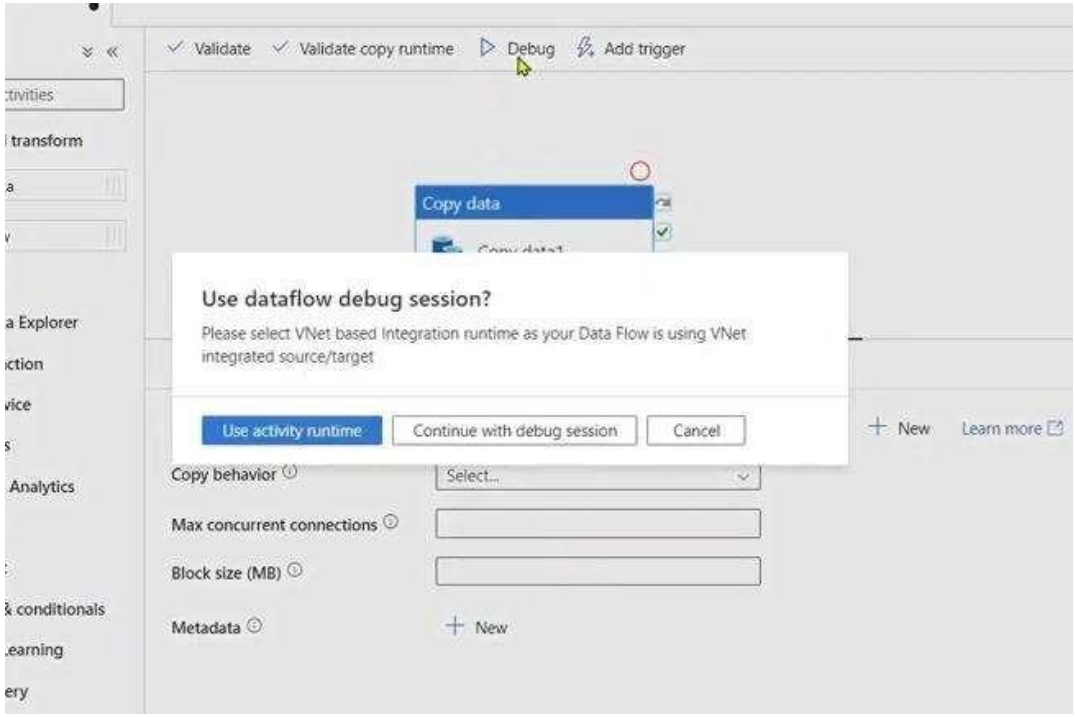






Step 14

Prior to execute pipeline using debug mode make sure to select use activity runtime.



Step 15

Once pipeline execution successful click on info symbol ahead green tick mark you see queue time 1 min :11 sec and transfer time 3 sec it took 1 min : 11 sec because it has to get IR first in virtual network then it took 3 sec to immediately transfer data.