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Job Aid: Data Factory				
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Purpose:

This document is to set up Data Factory, designed to deliver extraction, transformation, and loading (ETL) processes within the cloud.

Scope:

This document applies to all data analyst and epidemiologist working collaboratively using Data Factory to create, schedule and manage data pipelines that can move and transform data from various sources to different destinations.

Materials:

File Name	Location	
Data Factory	Password Vault (cdc.gov)	
ADF	ncird-ndlp-id-gib-dev-adf	
Databricks	https://adb-927644022200234.14.azuredatabricks.net/	
Workspace Common Folder	id-gib	
Azure DevOps Git Repo	https://dev.azure.com/CDC-Org1/NDSP/ git/id-gib-adf	

Prerequisites:

- Need SU account created.
- Basic understanding of data exchange.
- R/ SAS Viya programming language

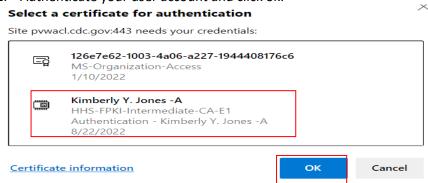
Process:

1. Log in using CDC PIV credentials (this should show your su account as cdc.gov)



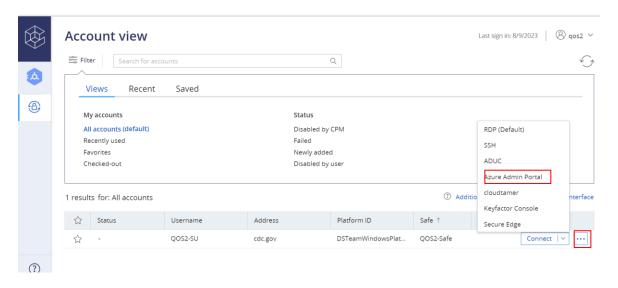


2. Authenticate your user account and click ok.

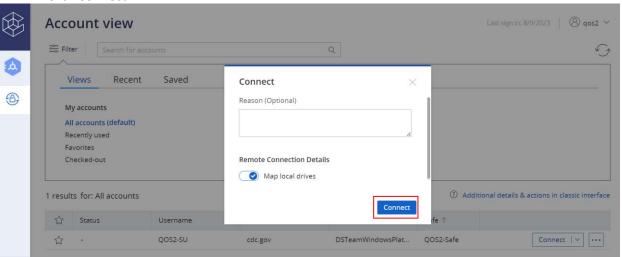


- 3. Connect with "Azure Admin Portal"
 - a. You will need to select the 3 dots and copy your new ssh key to enter databricks with your SU account.
 - b. SSH key is only available for same day usage.





4. Click Connect



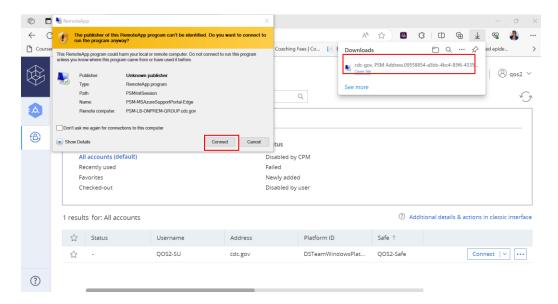
- 5. Click on "openfile" to download the Azure Data Factory
 - a. Click on connect



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- 6. Log into your SU account
 - a. Use the password from step 3a.



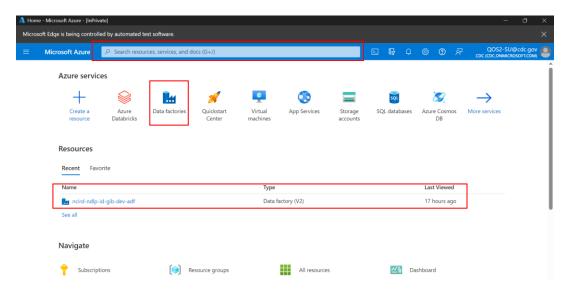
- 7. In the search bar "Data Factories" to add as a feature.
- 8. Click on the ADF resource link, "ncird-ndlp-id-gib-dev-adf".



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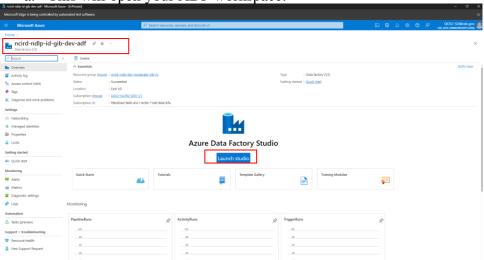
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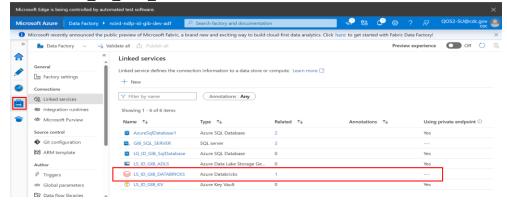


9. Clink "Launch studio"

a. This will open your ADF workspace.



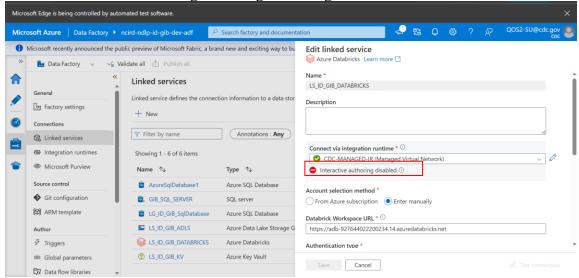
- 10. Click on the folder icon to get to the linked services.
- 11. Click on LS_ID_GIB_DATABRICKS Link



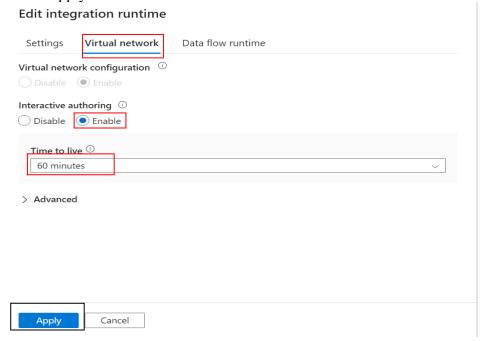


12. Click on the pencil icon.

a. Interactive authorizing authoring needs to get enable.

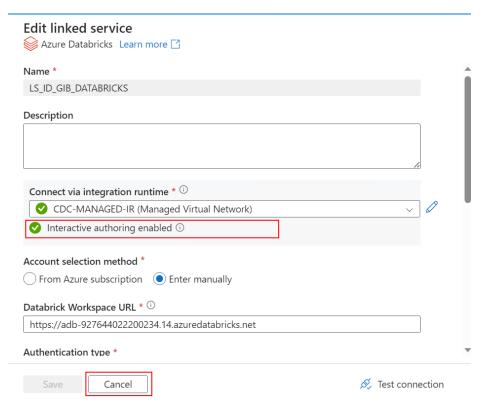


- 13. Click on the words "Virtual network".
 - a. Enable
 - b. Select time to live (30-60 minutes)
- 14. Click Apply to save the enabled feature.



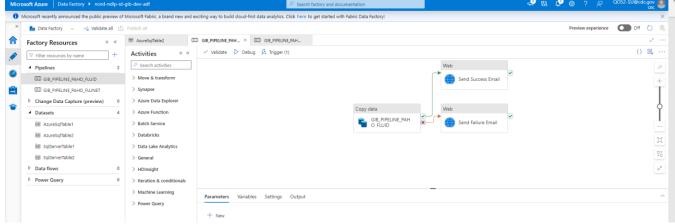
- a. You will now see the Interactive authoring enabled with a green check mark.
- b. Cancel





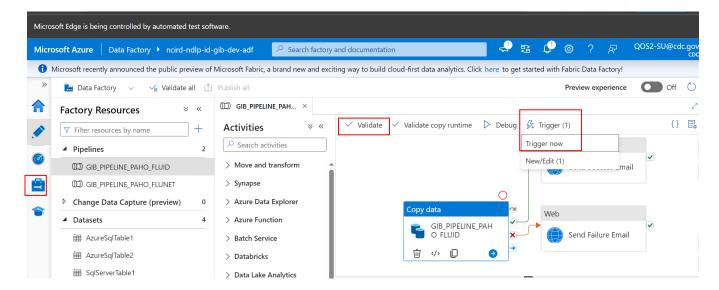
15. Click on the Pencil icon.

a. You will see your pipelines and datasets from SQL blob storage.



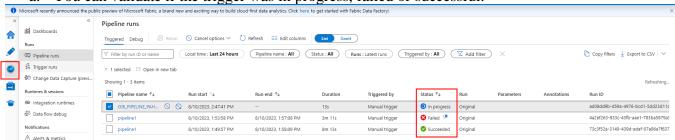
- 16. Click on pipeline "GIB_PIPELINE_PAHO_FLUID".
- 17. Click on the GIB PIPELINE PAHO FLUID picture.
 - a. 1st Validation Activity- confirms the data pipeline control flow based on conditions or rule
 - b. 2nd Publish- storing the pipeline, data flows and setting the parameters for Source and Sink
 - c. 3rd Trigger Now- provides the ability to choose and process data from the past.



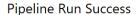


18. Click on the monitor icon.

a. You can validate if the trigger was in progress, failed or successful.



19. Email notification will be sent if the pipelines has failed or ran successfully on biweekly schedule.





- 20. Click Alert bell icon > Close.
 - a. Notifications appear with explanations of each status.



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