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Batch: Data Engineering Batch-1

	Hhat is Azure data fectory? Azure data factory is a doud to data integration service that allow you to create datordativen womenthan	
	not to create data any an something the cloud for orche etacting and automating data movement addy bransformation. - ADF does not store any data itself.	× 1)
	- It allows you to monitor & manage workflow yeing both programmatic & us mechanism	2)
A	ADF can be used for: Bupporting data migration Getting data from a client's ormer or online data to an ADU.	3)
	corrying out various data integral process Integrating data from different Ept systems and loading it into Azure synapse for reporting.	*
\$ } → 7	tow does ADT work? The data factory service allow joy o create pipeline that move & transform data & then run	

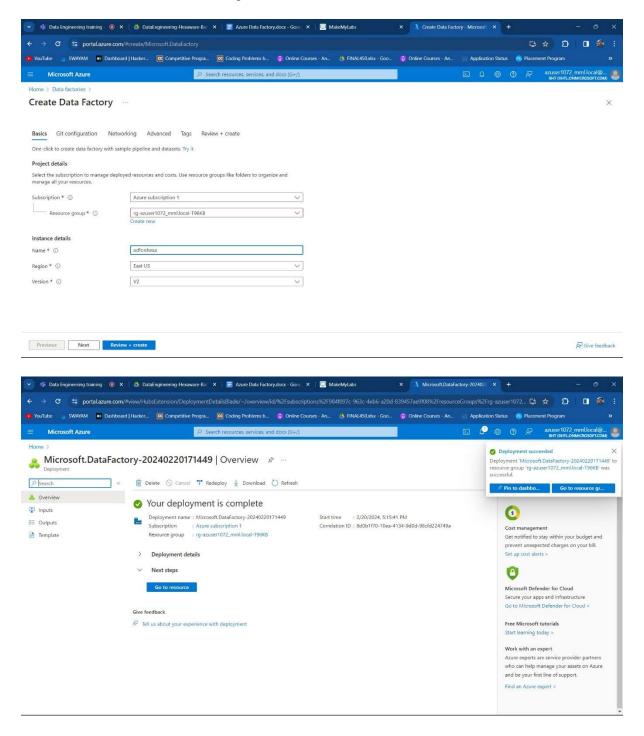
	Tidyalekhan DATE
and posed	the pipelines on a specified schedule chounty, weeterly, monthly end.
F& I)	ADF can perform in 8 steps: Step 1: Connect & collect Connect to all the required source of deba & processing such 98 SDAS, som ce. all
	steps: Transform & enough
	17 18 transformed using compete sorvice Buch as HPInsight, Hadowp, spare Humber Bteps: Publish
in the second	Deliver transformed data from the
egrafin A A	zure nata factory key component.
e	together to define in put & output
	data, processing events, & the schooled- t resources required to execute
	the desired data flow-
	within the data stores.
	An iput date out represents the input

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for an activity in the pipeline An output dataset represent the output for the activity.	307
An output dataser represent the	nee
ex. an orune blob detypes	000
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the Azure blob storald from	
ex. an organe blob dataged spent the blob container & folder to the Azure blob storage from the pipeline should read the data.	
	af
They are used to group actions into a uni) that together perform	
into a uni) that together bending	
	1 .
more pipelines.	<u>u</u>
ex, a pipeline could contain	
a group of activities that is	7
deta from an Azure blob & then runs a Hive gyery on an Hosnight dyster to partition the data.	-
Horney a Hive gyery on an	
the data. dy ofer to partition	0
3) Activities define the only	•
perform on your dates:	*
Cyrrenty, Azure Deta Lactory	
deto maren types of activities	
3) Activities define the actions to perform on your date: currently, Azure Data factory deto movements & data transform 4) Links of	
4) linked across	
4) unked services define the informe	

Jine.	Vidyalekhan Care DATE PAGE
of the leaves of the	needed for Azune deta fuctory to connect to external resources.:-
read will	How ADF work component work
refivites biorhay	Data SET [Activity Pipeline] Produces logical grouping a data item of stored in punson
e dr	[Linked genuces]
ngosts then	you can use one of the following tools or Apis to create data pipeline in Azure pata factory.
(m)	· Azure portal · Nisual studio · Powershell · NIET API
	· REST API · Azure resource management template
Toym!	
me	

Copy Activity:

1. Create a data factory

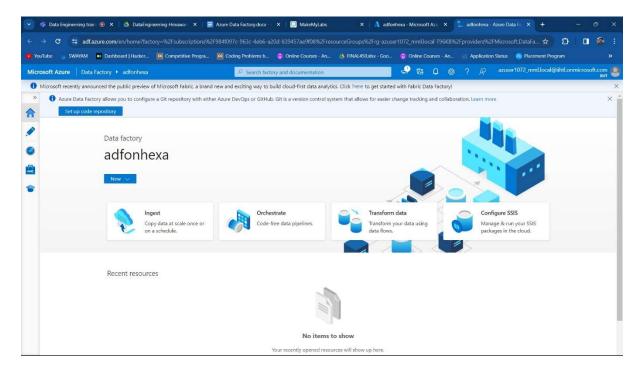


Use the copy data tool to copy data

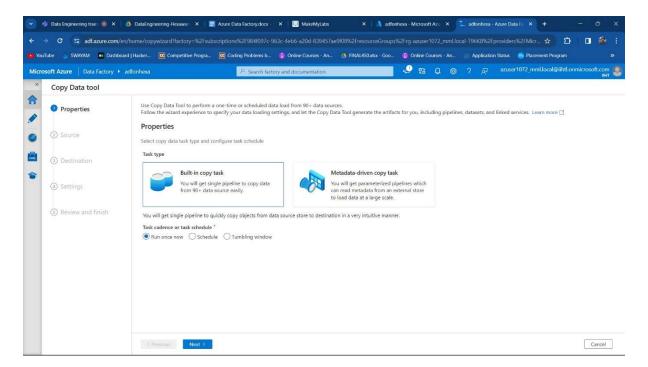
The steps below will walk you through how to easily copy data with the copy data tool in Azure Data Factory.

Step 1: Start the copy data Tool

1. On the home page of Azure Data Factory, select the **Ingest** tile to start the Copy Data tool.

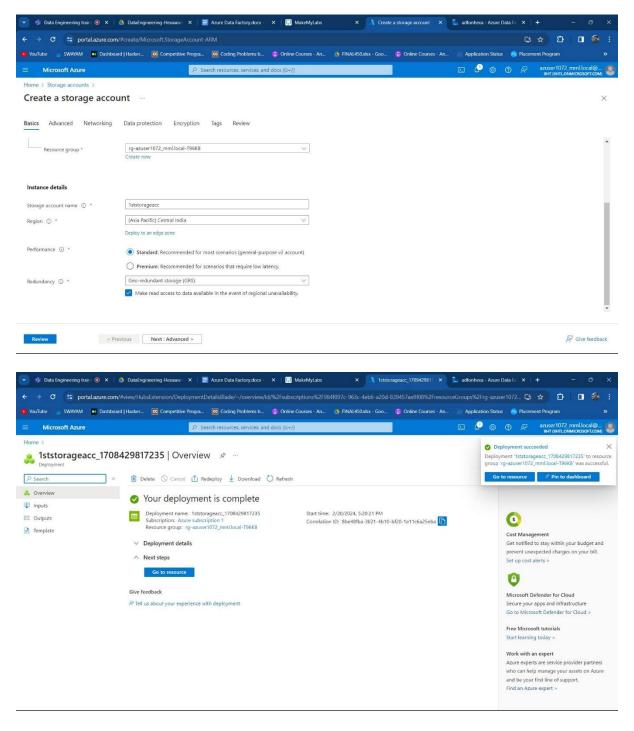


2. On the **Properties** page of the Copy Data tool, choose **Built-in copy** task under **Task type**, then select **Next**.



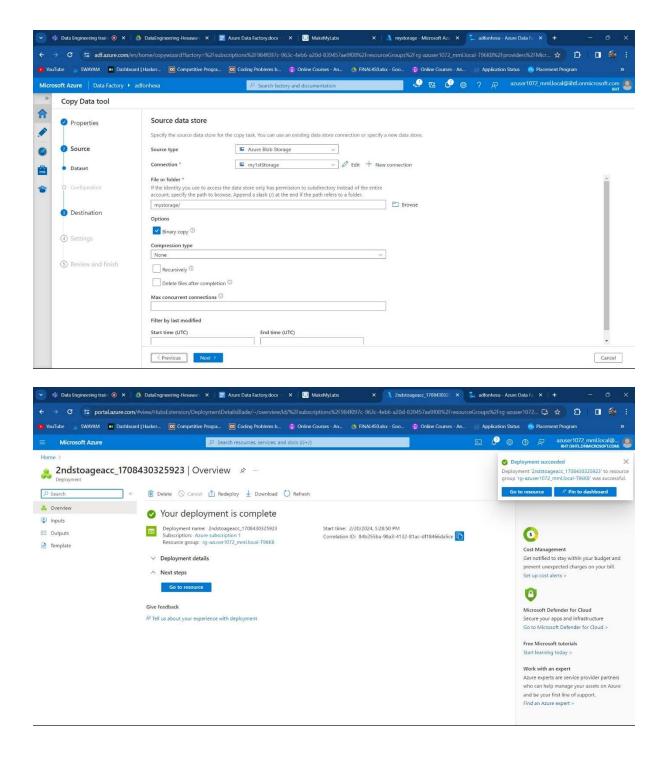
Step 2: Complete source configuration

- 1. Click + Create new connection to add a connection.
- 2. Select the linked service type that you want to create for the source connection. In this tutorial, we use **Azure Blob Storage**. Select it from the gallery, and then select **Continue**.



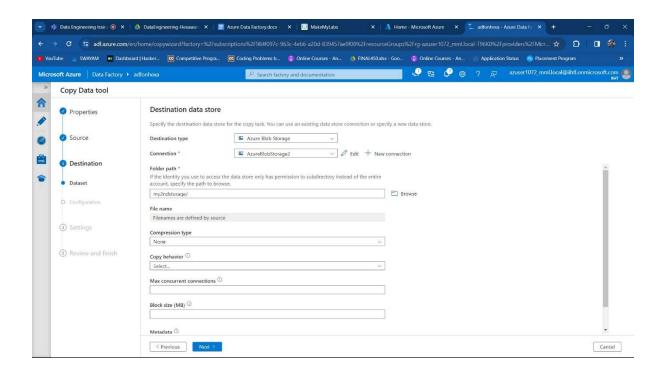
 On the New connection (Azure Blob Storage) page, specify a name for your connection. Select your Azure subscription from the Azure subscription list and your storage account from the Storage account name list, test connection, and then select Create.

- 1. Select the newly created connection in the **Connection** block.
 - In the File or folder section, select Browse to navigate to the mystorage/input folder, select the file, and then click OK.
 - 3. Select the **Binary copy** checkbox to copy file as-is, and then select **Next**.



Step 3: Complete destination configuration

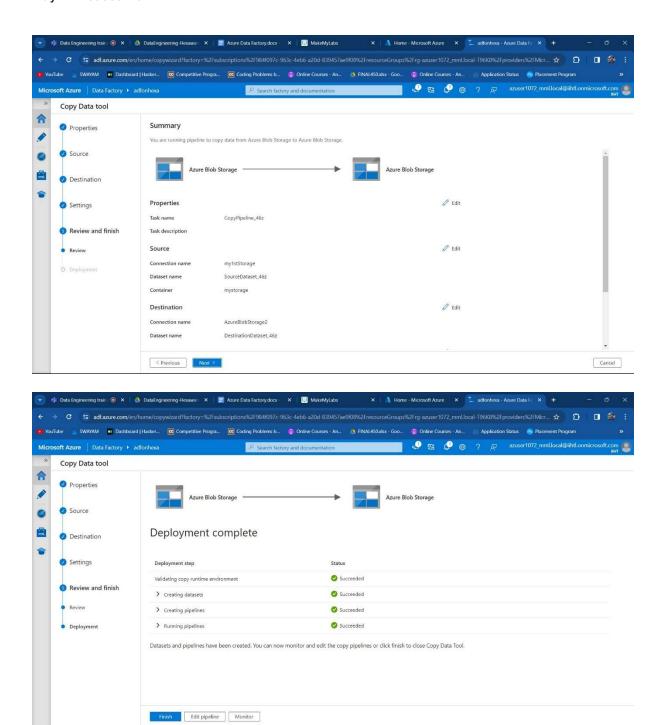
- Select the **AzureBlobStorage** connection that you created in the **Connection** block.
- In the Folder path section, enter my2ndstorage/output for the folder path.



Step 4: Review all settings and deployment

On the **Settings** page, specify a name for the pipeline and its description, then select **Next** to use other default configurations

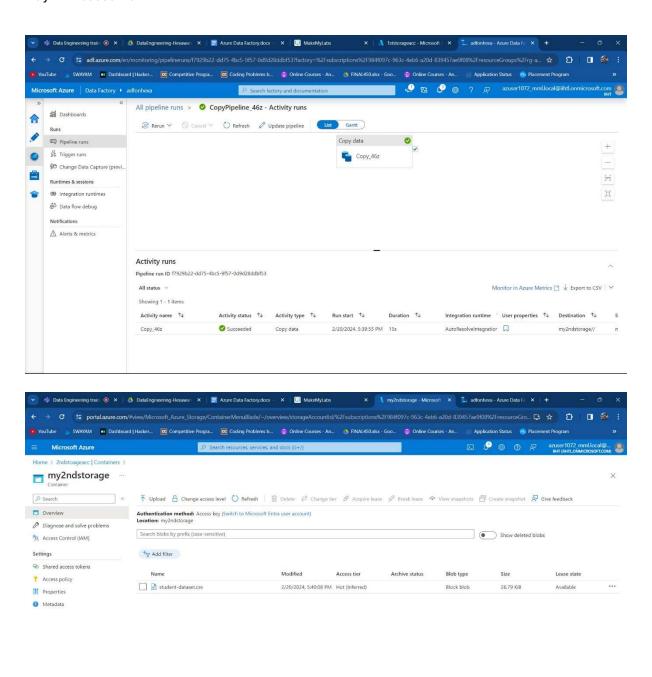
- 1. On the **Summary** page, review all settings, and select **Next**.
- 2. On the **Deployment complete** page, select **Monitor** to monitor the pipeline that you created.



Step 5: Monitor the running results

1. The application switches to the **Monitor** tab. You see the status of the pipeline on this tab. Select **Refresh** to refresh the list. Click the link under **Pipeline name** to view activity run details or rerun the pipeline.

Day 22 Assessment



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