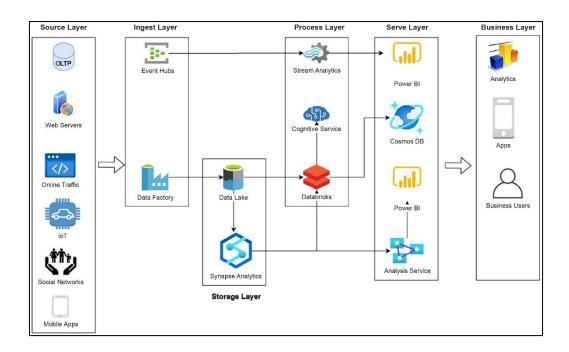
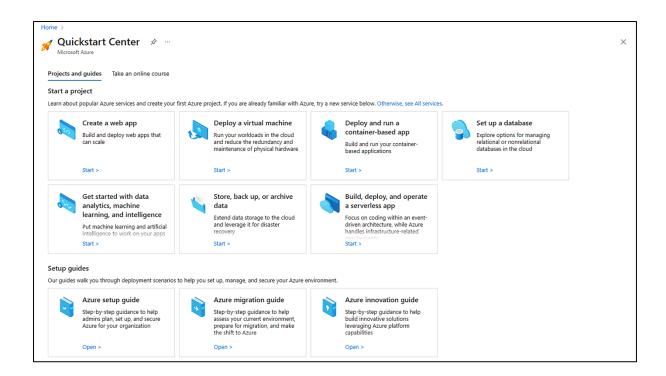
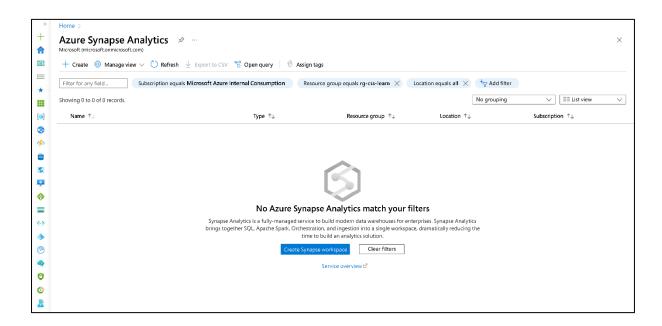
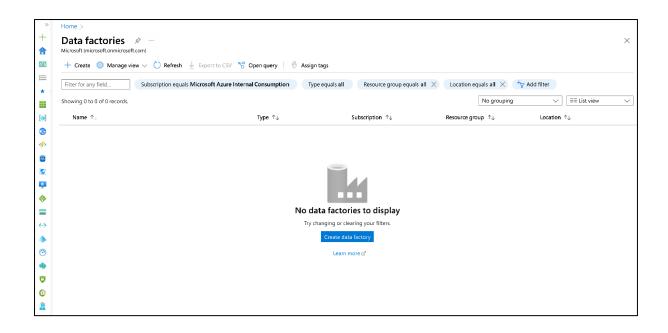
Chapter 1: Getting Started with ADF

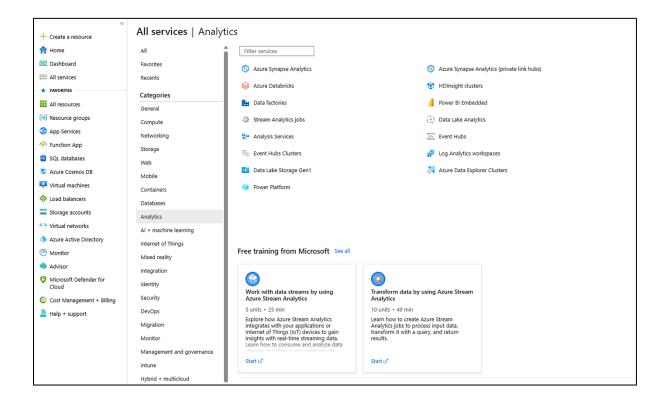
Service Name	Definition
Azure Synapse Analytics	A limitless analytics service with unmatched time to insight (formerly SQL Data Warehouse)
Power BI	A business intelligence solution for building reports and dashboards and data visualization
Azure Stream Analytics	Real-time analytics on fast-moving streams of data from applications and devices
ADF	Hybrid data integration at an enterprise scale made easy
Azure Databricks	Apache Spark-based analytics platform optimized for the Microsoft Azure cloud services platform
Azure Cognitive Services	Cloud-based services with REST application programming interfaces (APIs) and client library software development kits (SDKs), available to help developers build cognitive intelligence into applications without having direct artificial intelligence (AI) or data science skills or knowledge
Azure Event Hubs	Big data streaming platform and event ingestion service
Azure Data Lake Storage	Set of capabilities dedicated to big data analytics, built on Azure Blob storage
Azure HDInsight	Provisions cloud Hadoop, Spark, R Server, HBase, and Storm clusters
Azure Cosmos DB	Fast NoSQL database with open APIs for any scale
Azure SQL Database	Managed, intelligent SQL in the cloud

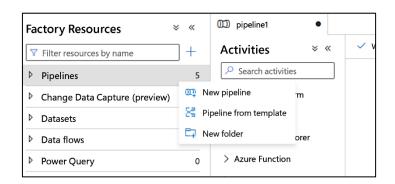


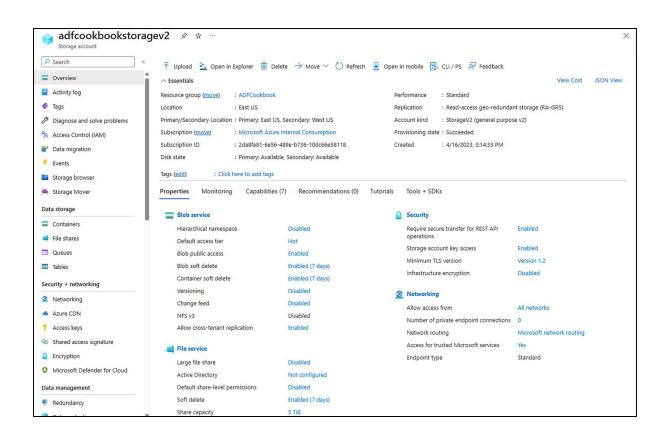


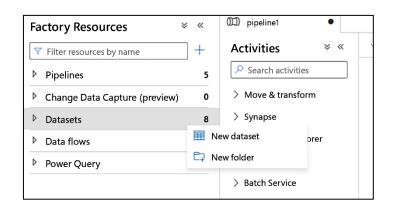


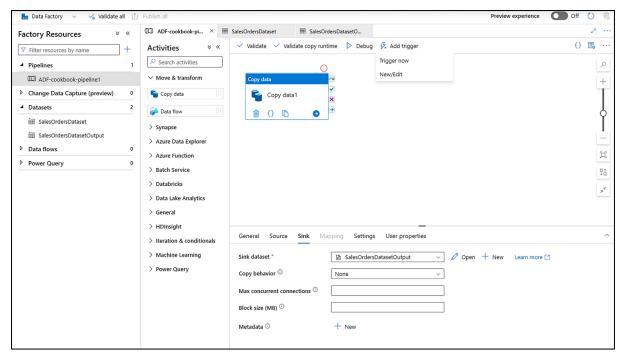


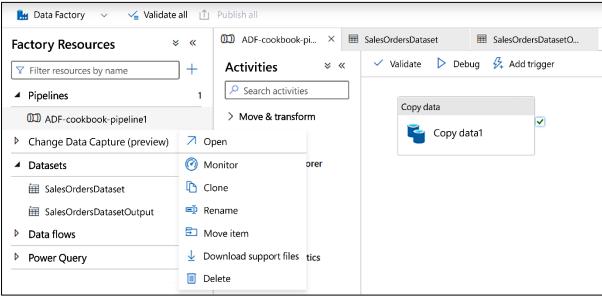


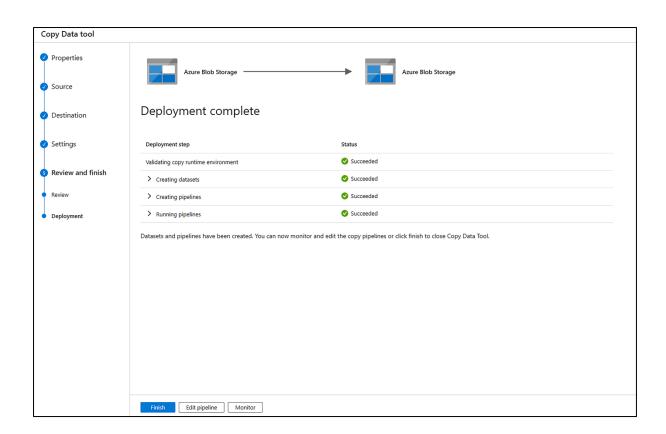


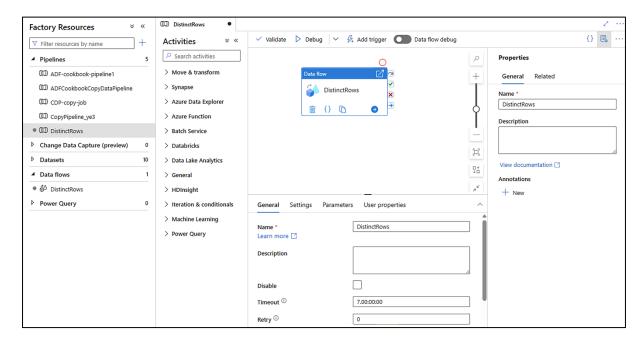


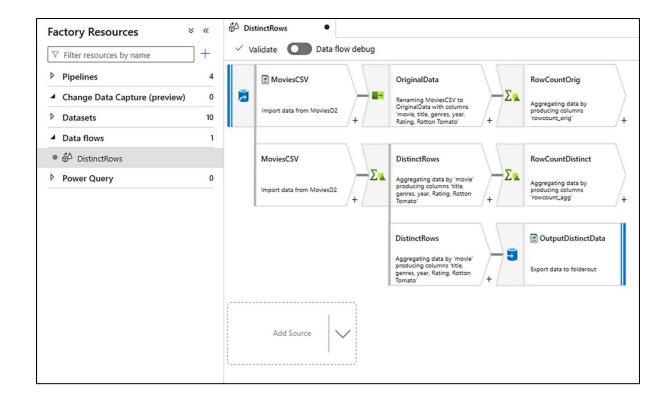




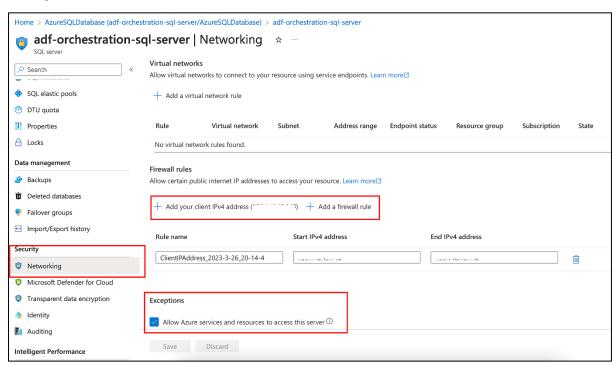


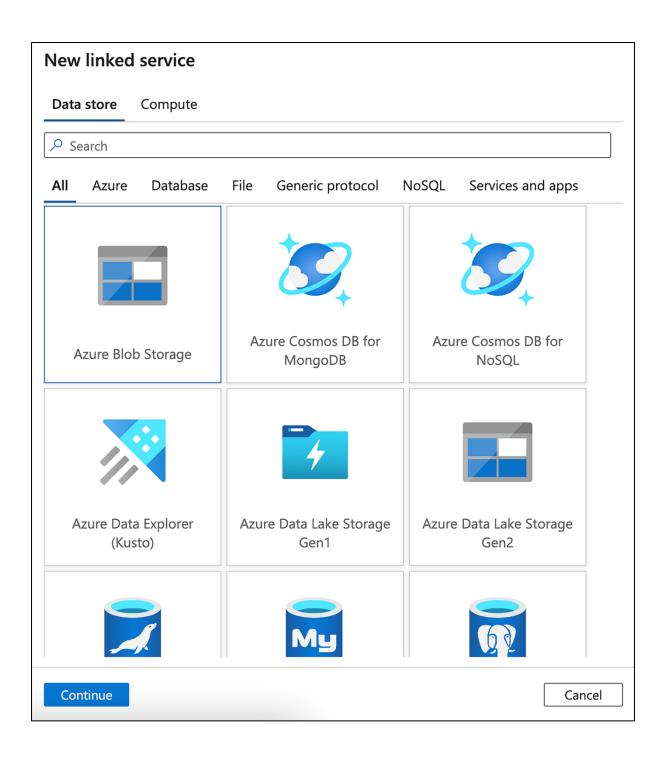


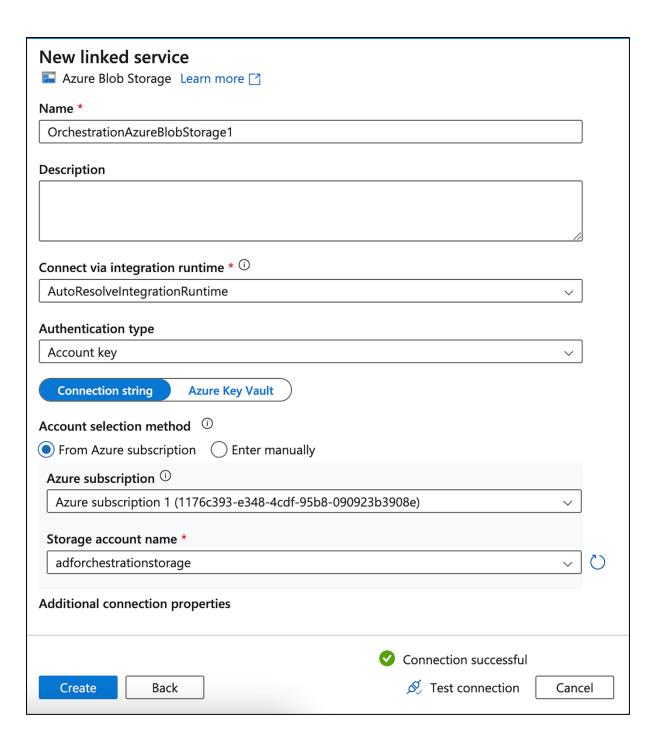


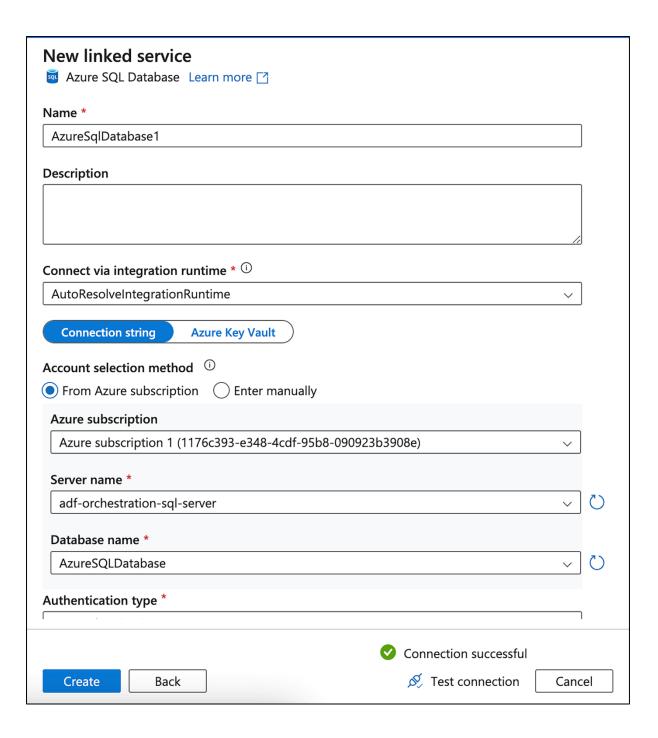


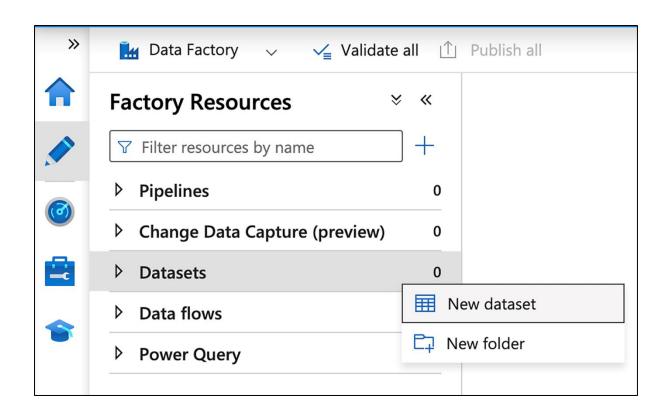
Chapter 2: Orchestration and Control Flow

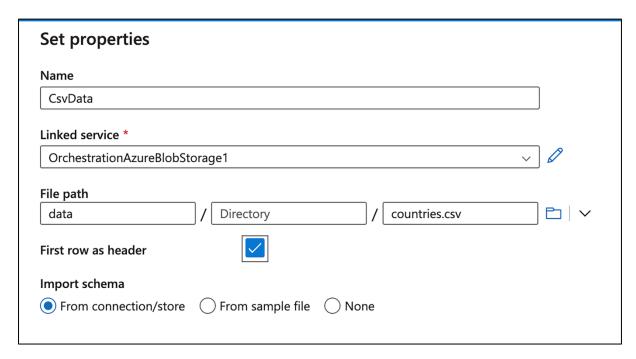


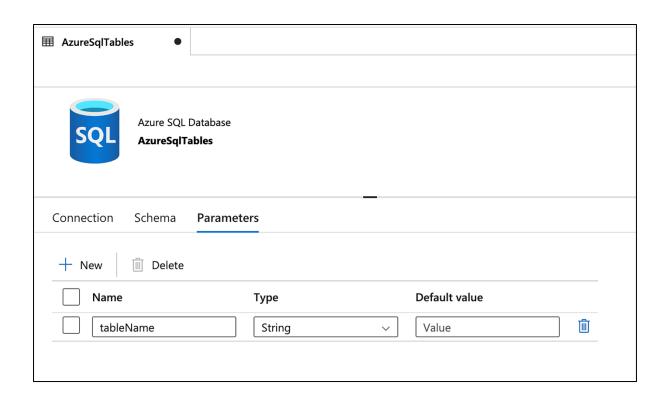


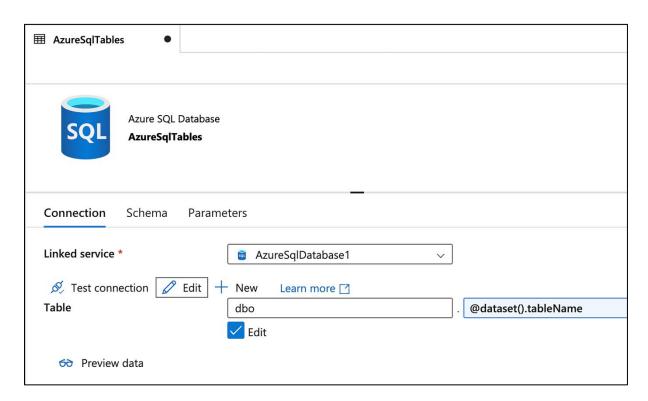


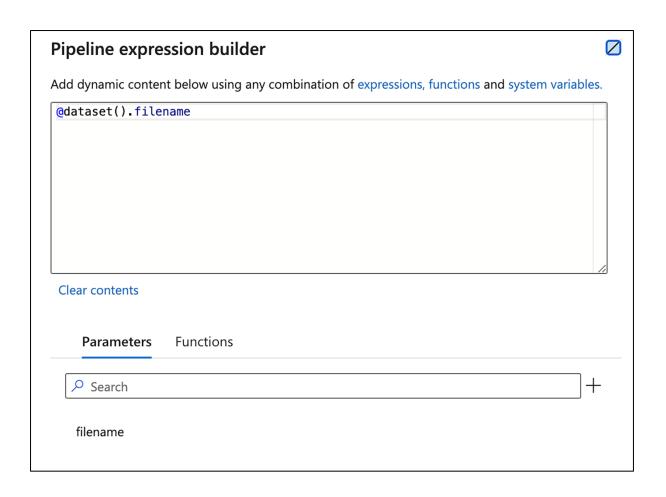


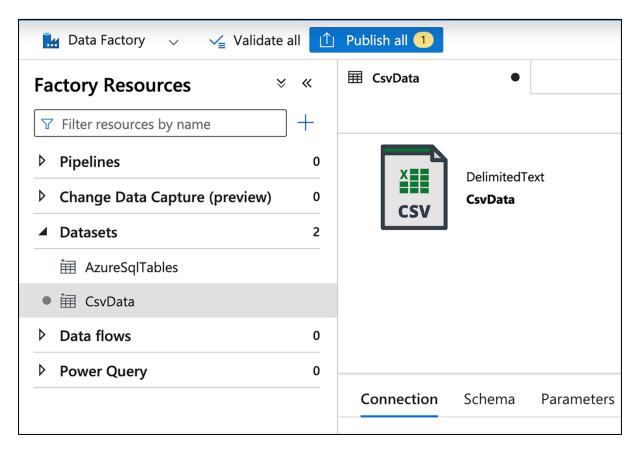


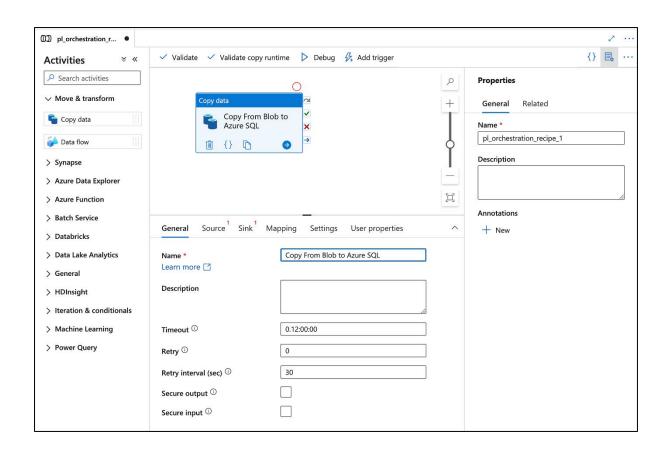


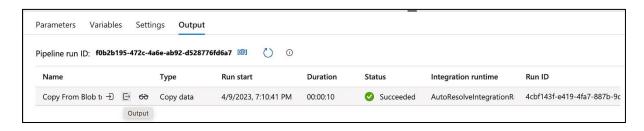


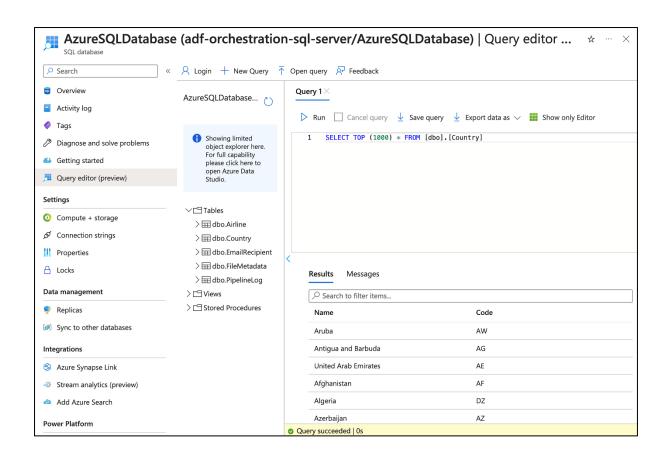


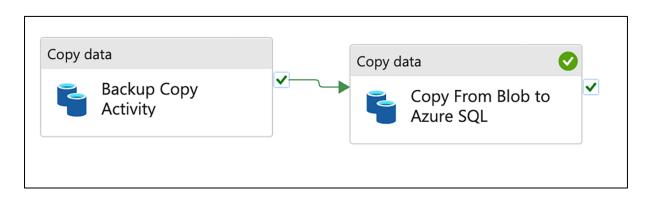




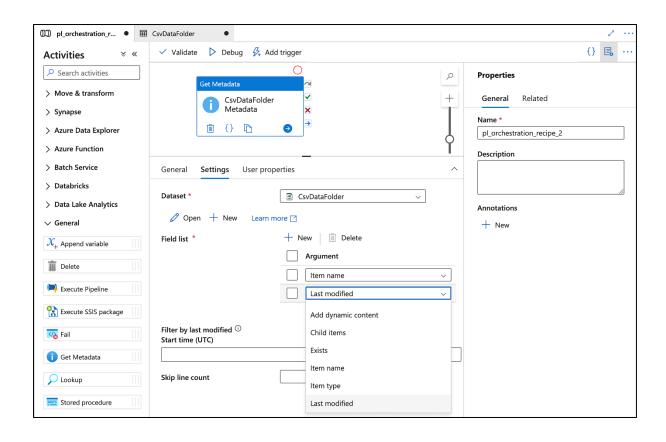


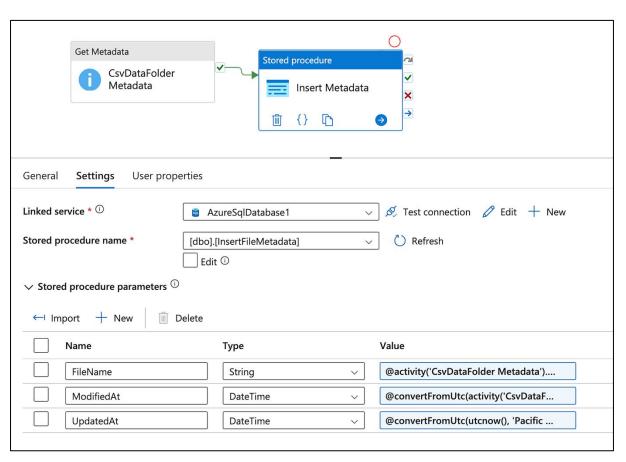






Pipeline expression builder		
Add dynamic content below using any combination of expressions, functions and system variables.		
Please specify an expression Clear contents		
Parameters System variables Functions Variables		
∠ Search		
> Collection Functions		
> Conversion Functions		
> Date Functions		
> Logical Functions		
> Math Functions		
∨ String Functions		
concat Combines any number of strings together. For example, if parameter1 is foo, the following expressi		
endswith Checks if the string ends with a value case insensitively. For example, the following expression retur		
OK Cancel		

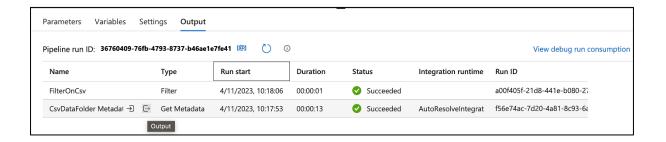




Metadata options

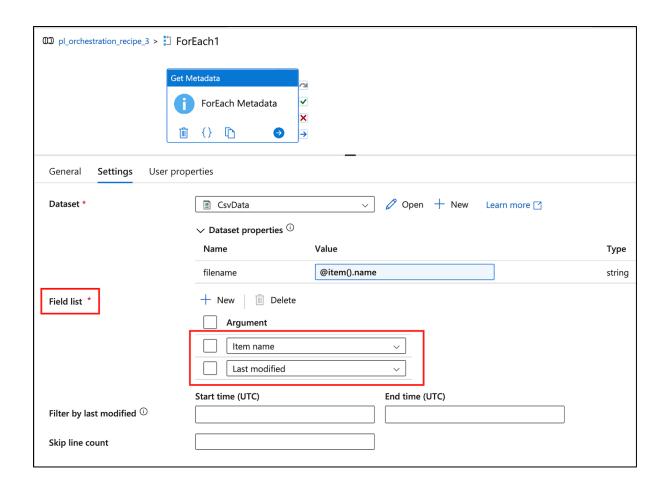
You can specify the following metadata types in the Get Metadata activity field list to retrieve the corresponding information:

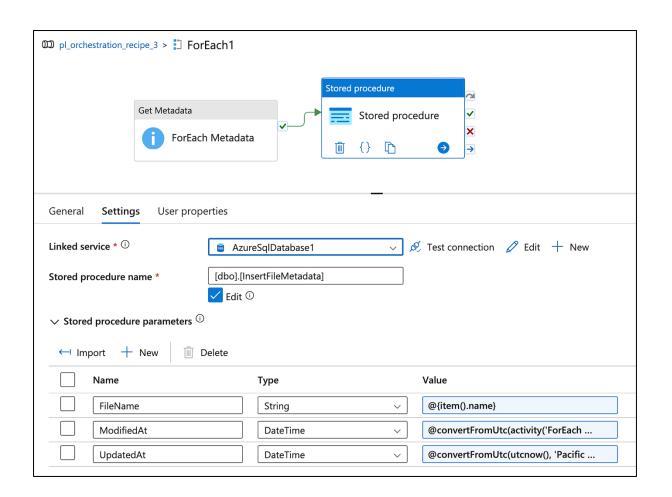
Metadata type	Description
itemName	Name of the file or folder.
itemType	Type of the file or folder. Returned value is File or Folder.
size	Size of the file, in bytes. Applicable only to files.
created	Created datetime of the file or folder.
lastModified	Last modified datetime of the file or folder.
childItems	List of subfolders and files in the given folder. Applicable only to folders. Returned value is a list of the name and type of each child item.
contentMD5	MD5 of the file. Applicable only to files.
structure	Data structure of the file or relational database table. Returned value is a list of column names and column types.
columnCount	Number of columns in the file or relational table.
exists	Whether a file, folder, or table exists. Note that if exists is specified in the Get Metadata field list, the activity won't fail even if the file, folder, or table doesn't exist. Instead, exists: false is returned in the output.

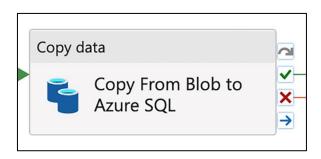


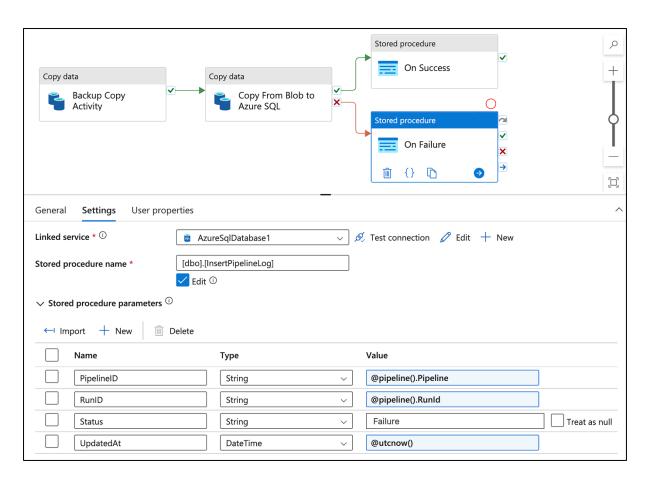
Output

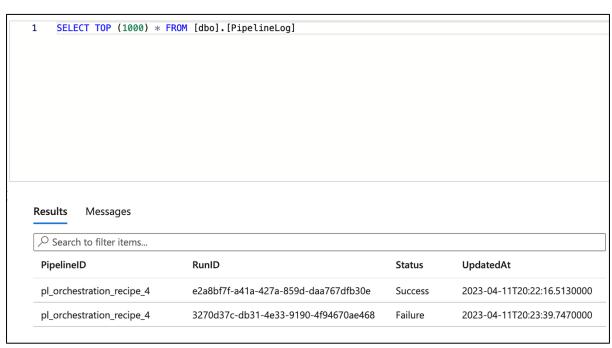
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Copy to clipboard
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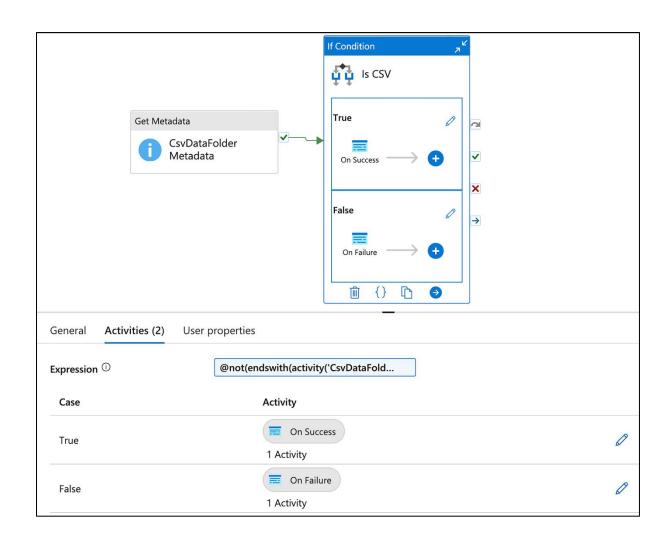


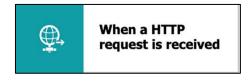




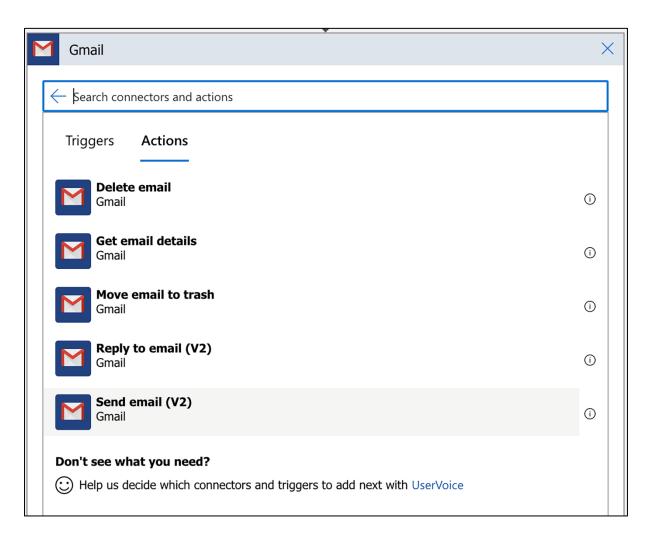


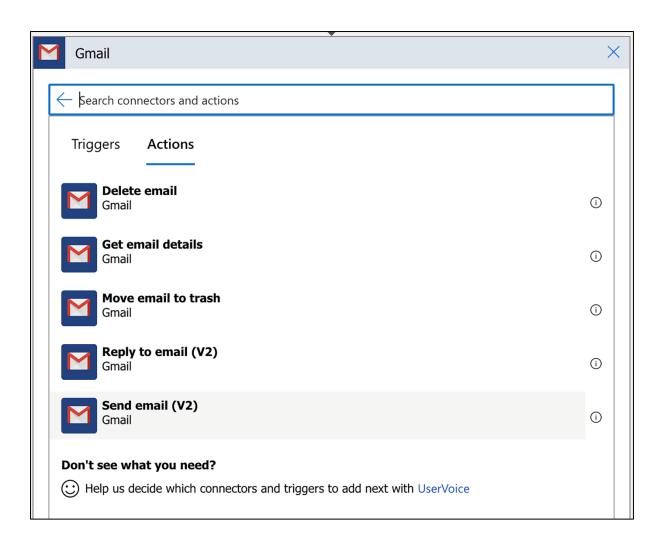


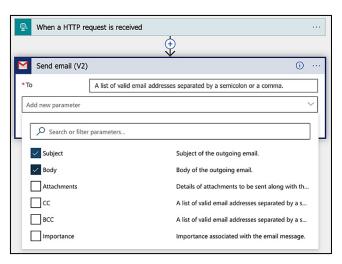


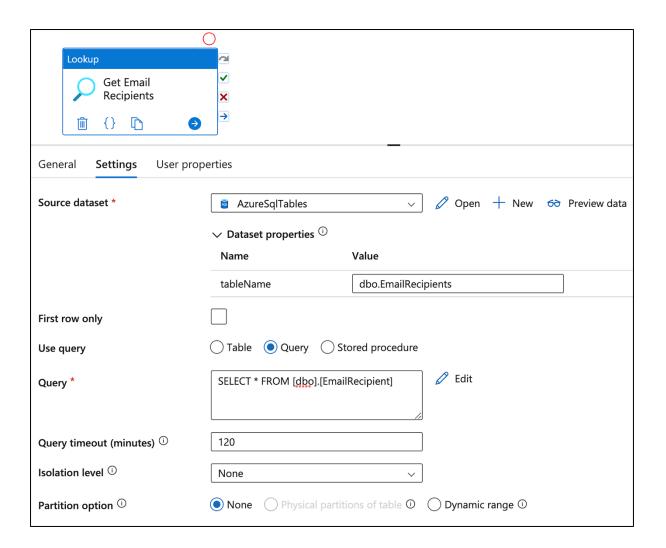


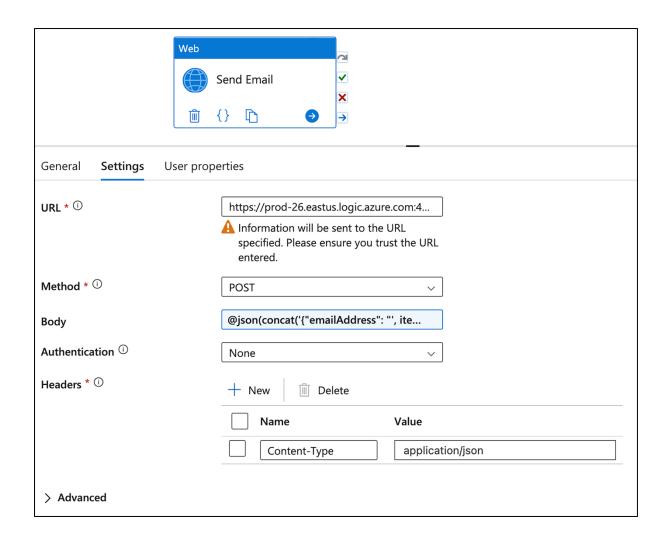


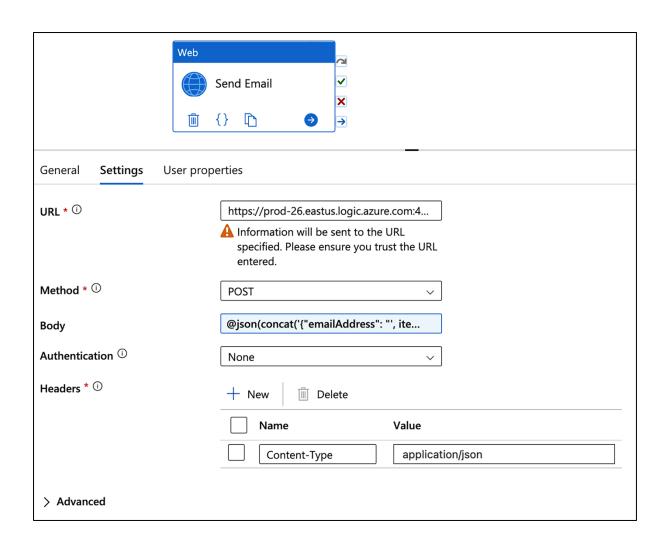


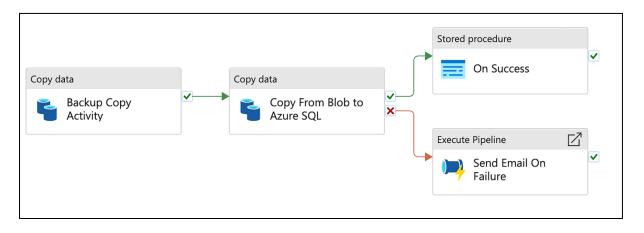


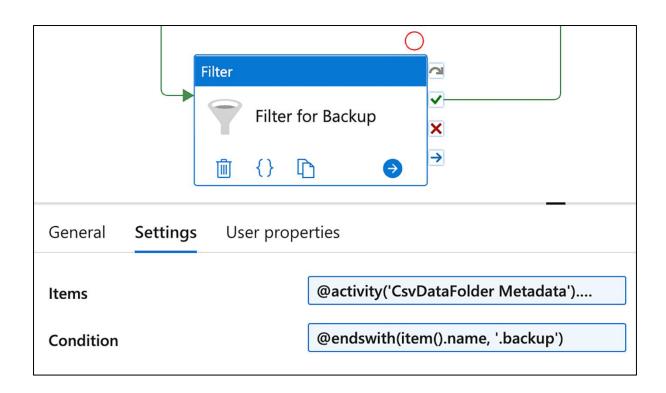


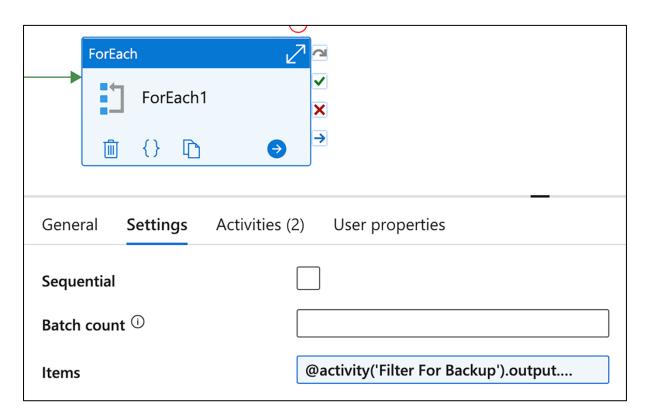


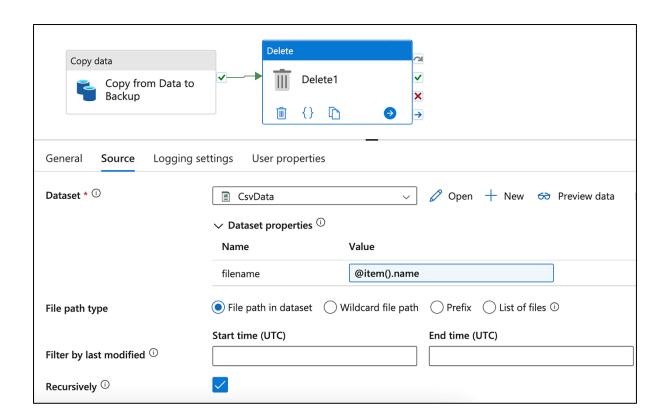


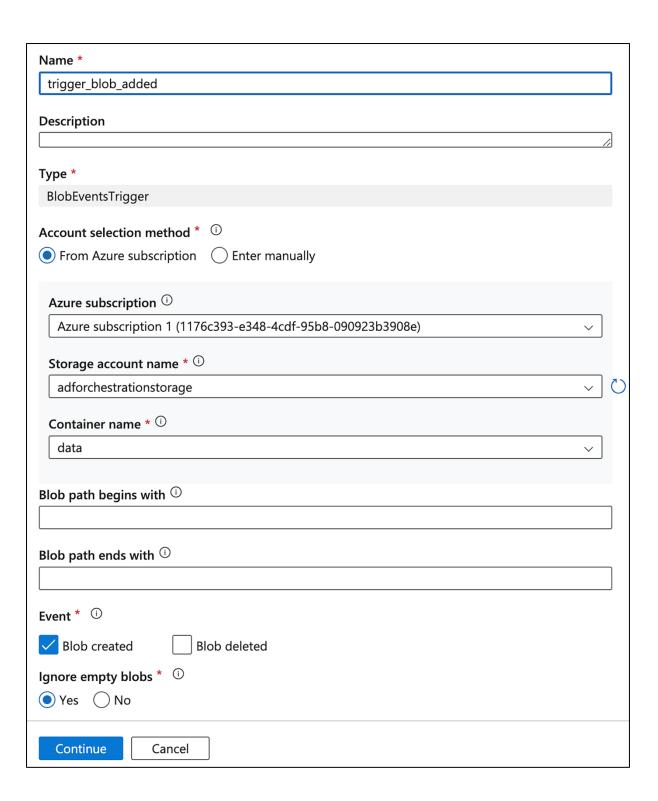


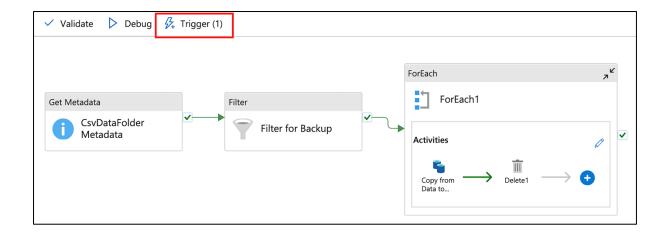




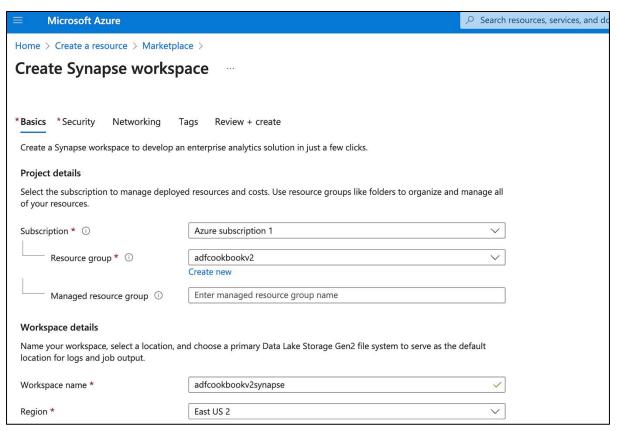


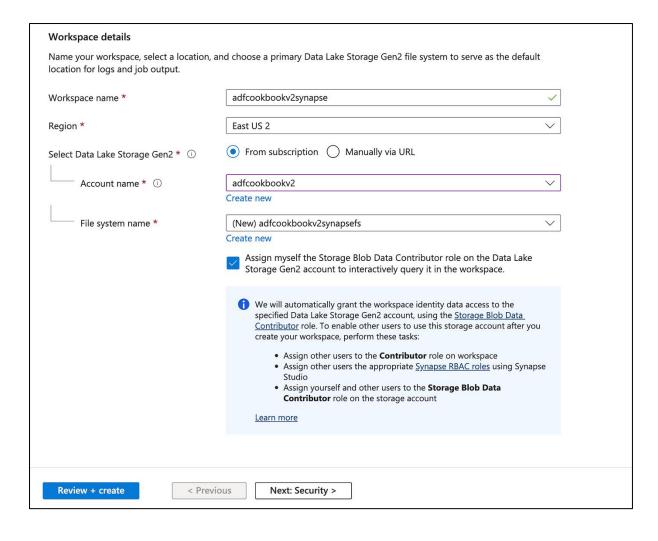


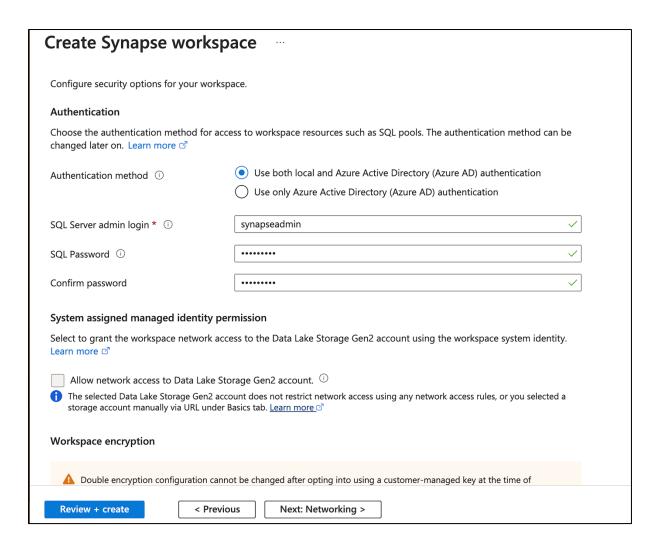


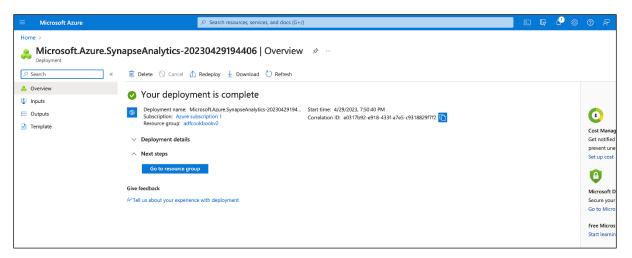


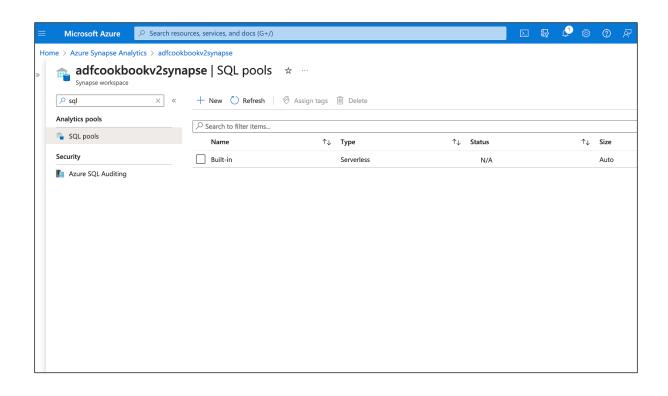
Chapter 3: Setting Up Synapse Analytics

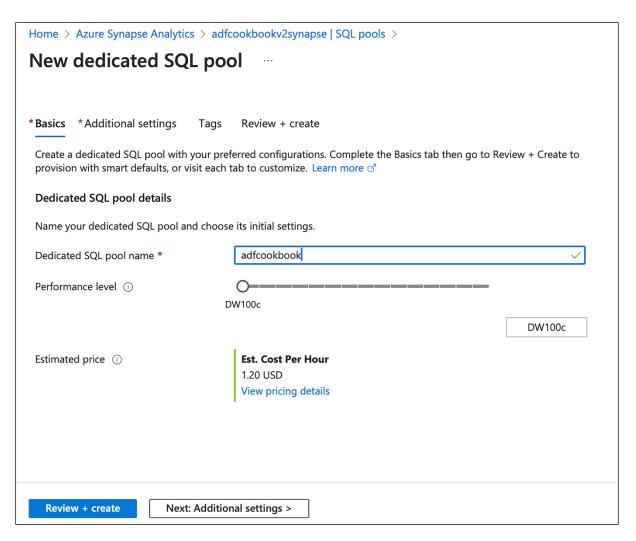


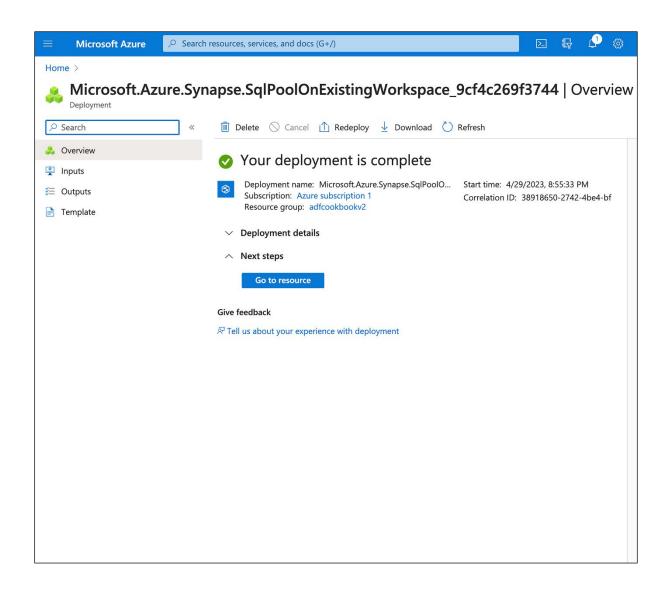


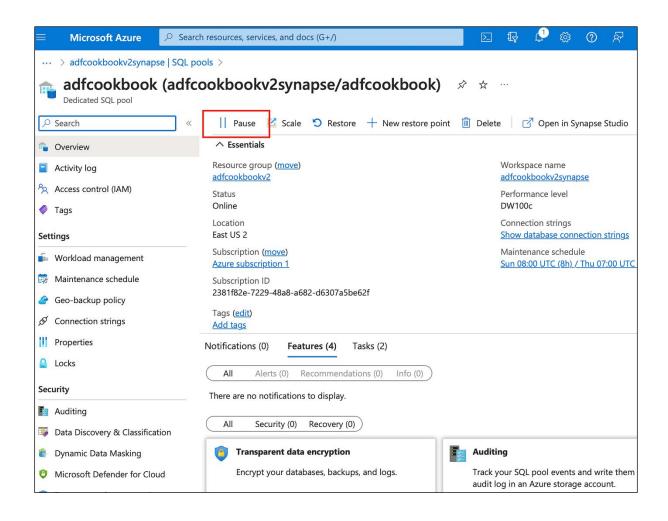


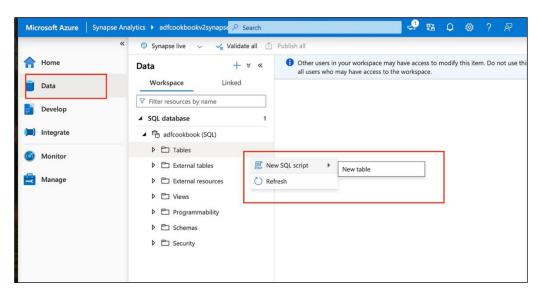


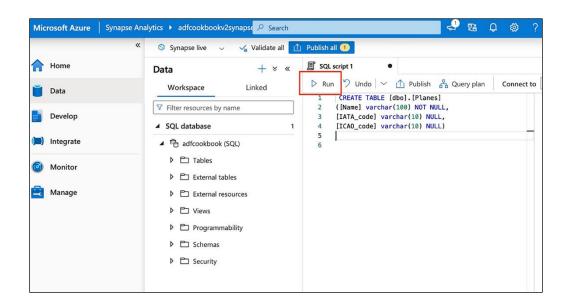


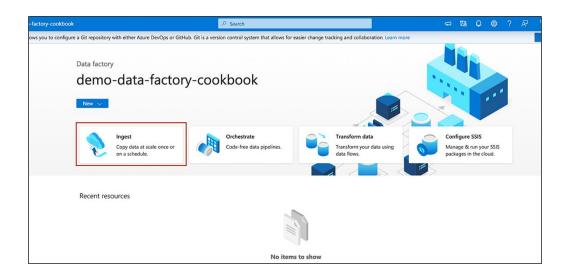


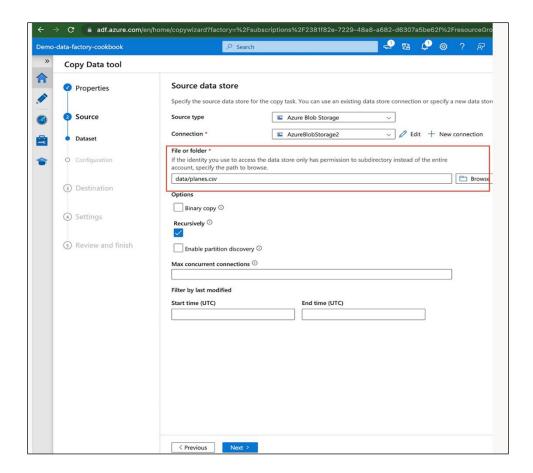


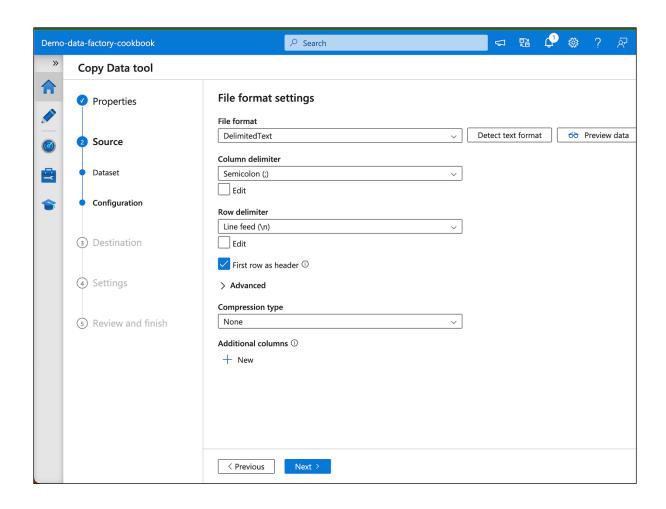


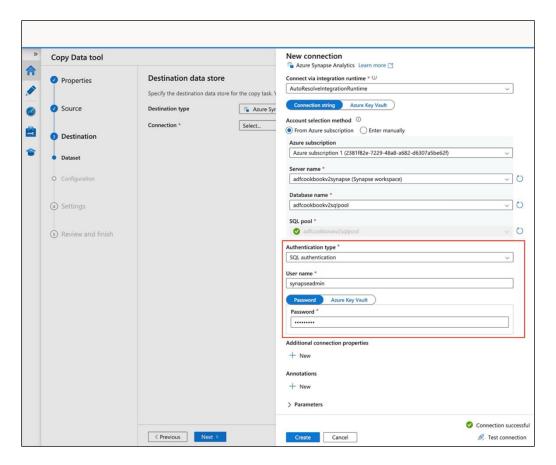


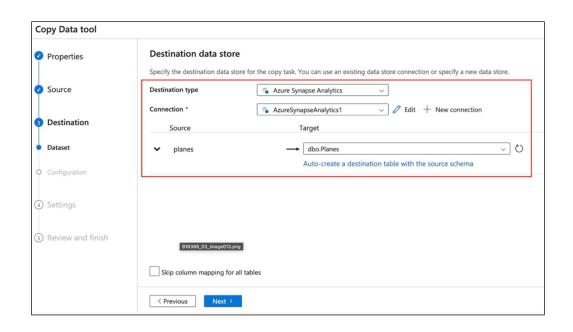


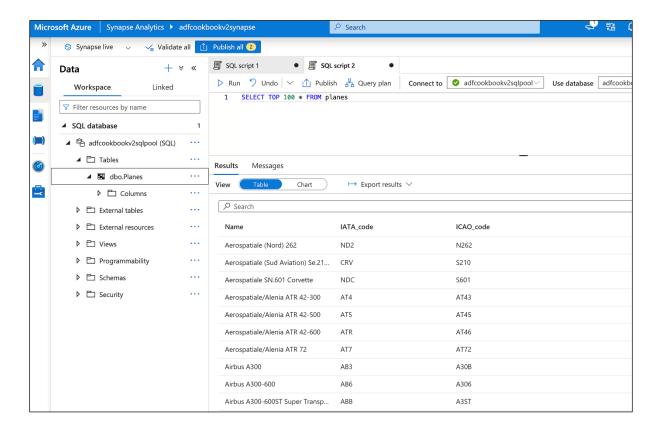


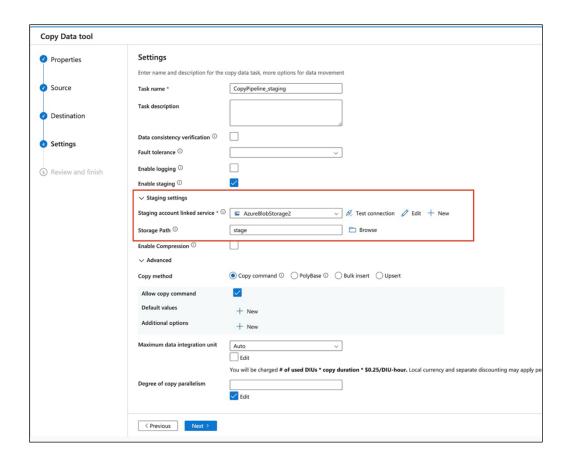


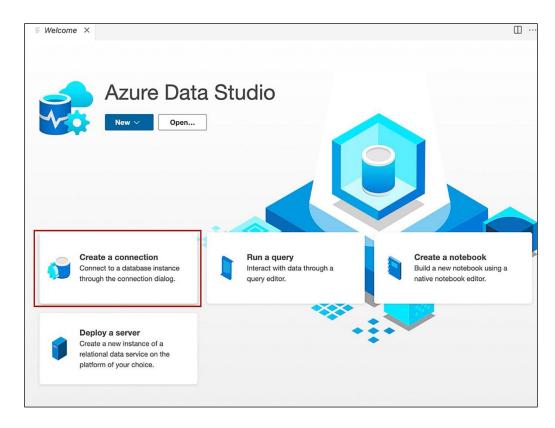


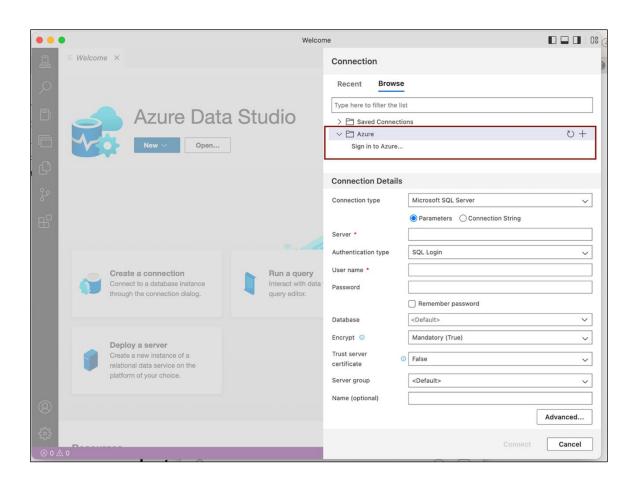


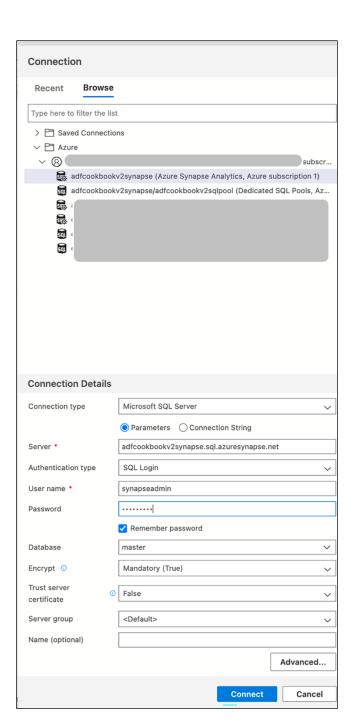


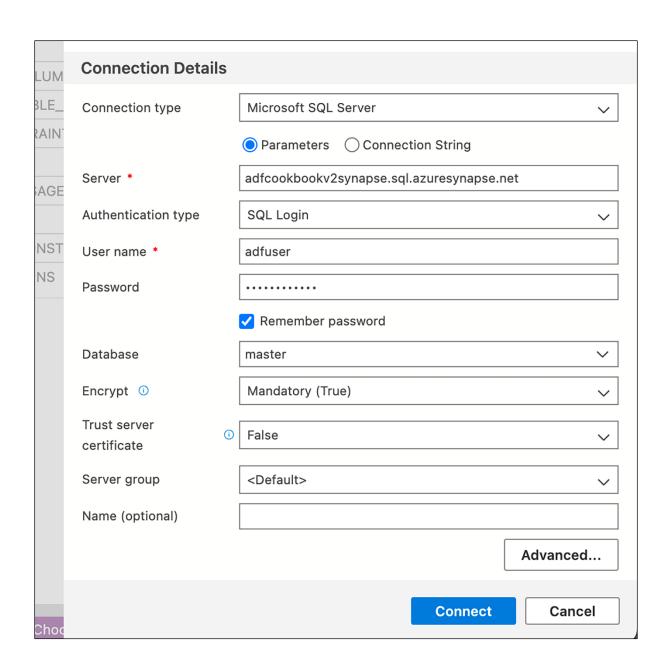


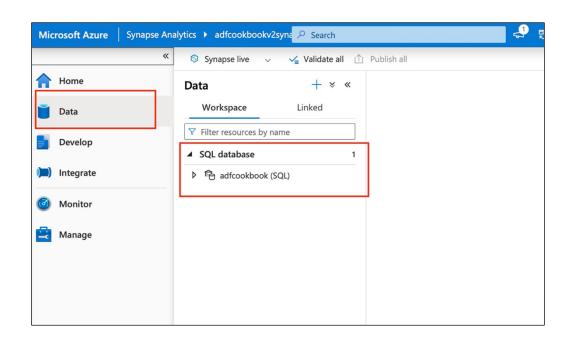


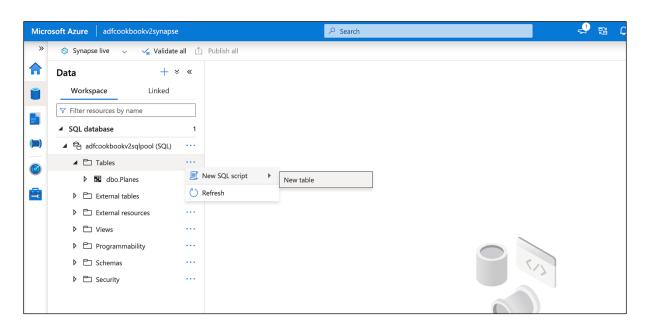


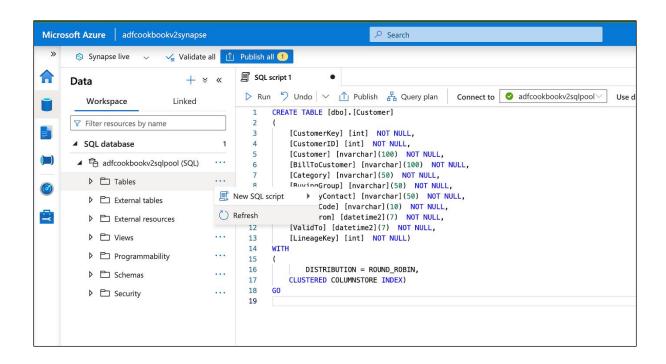


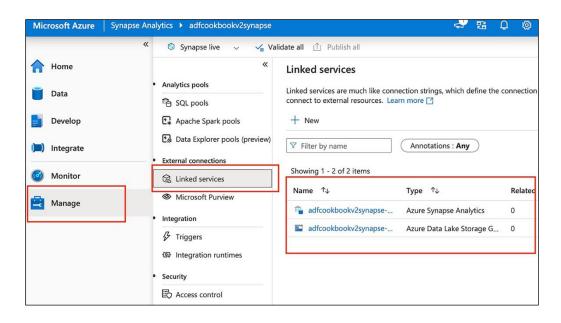


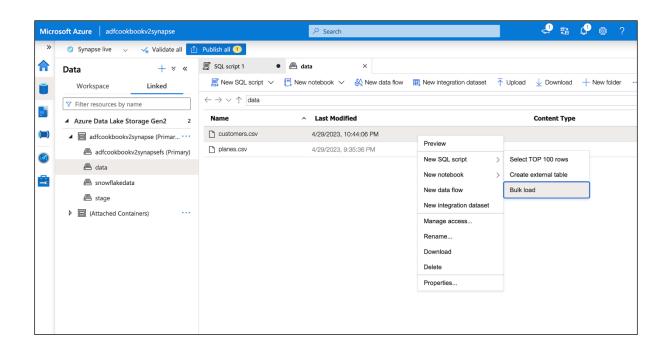


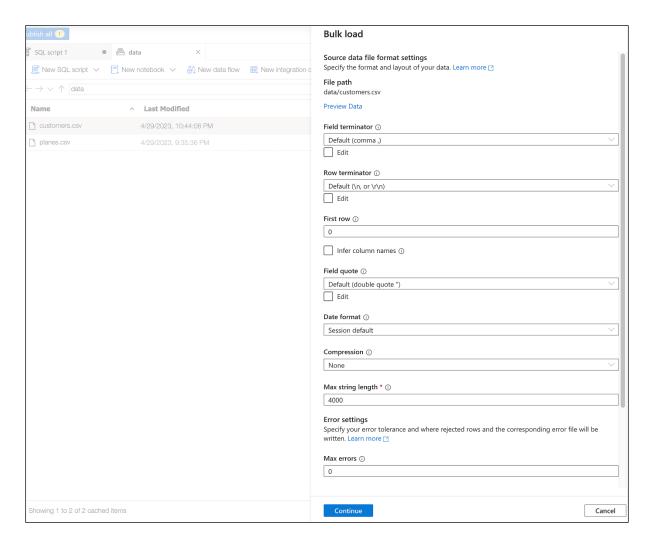


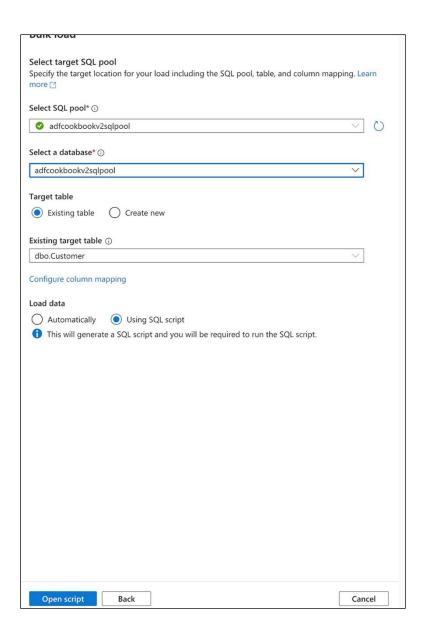


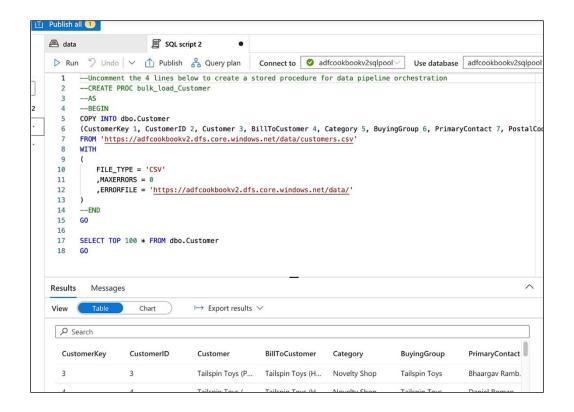


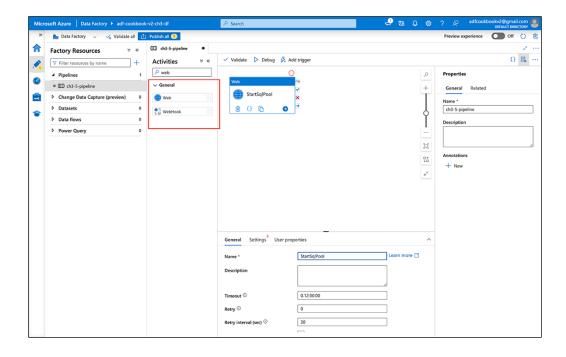


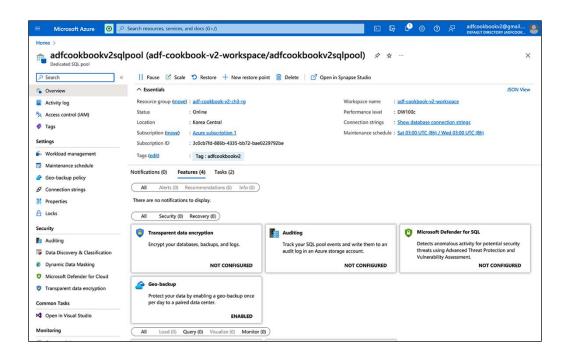


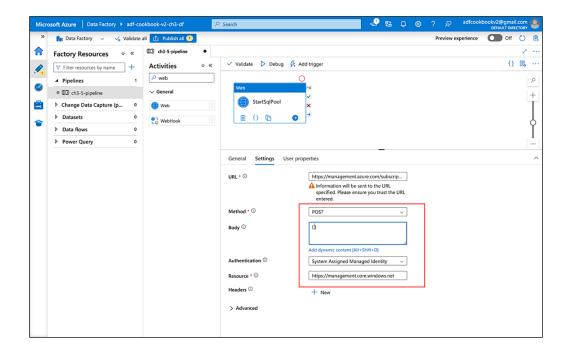


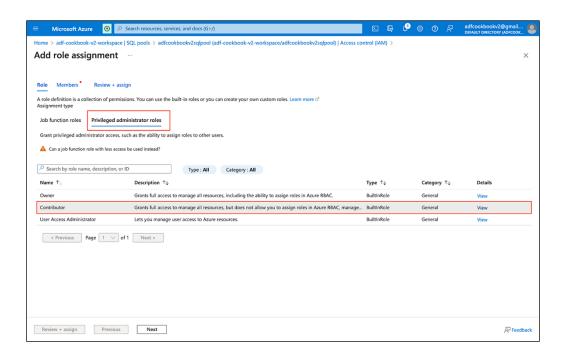


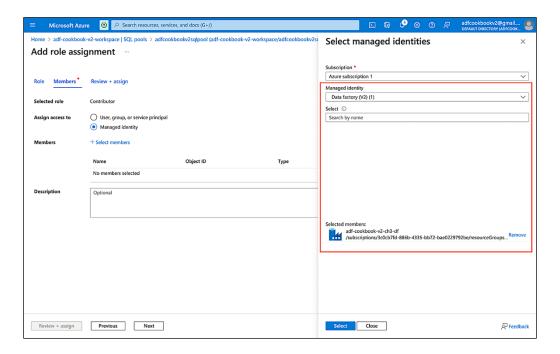


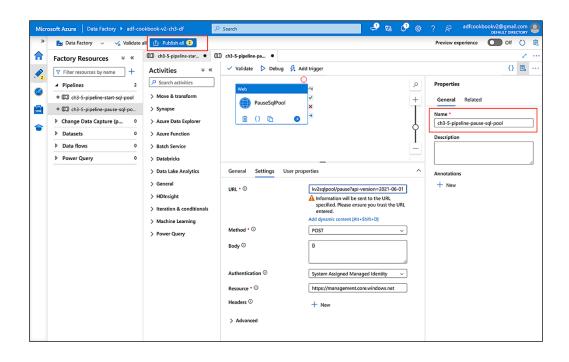


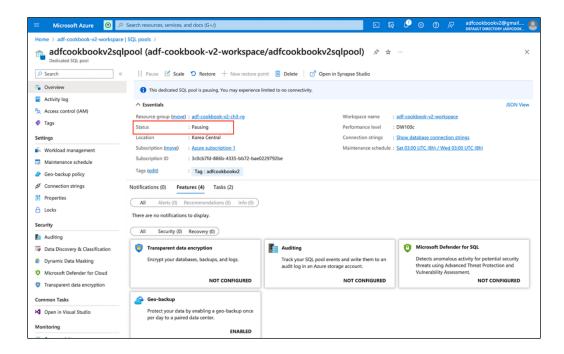


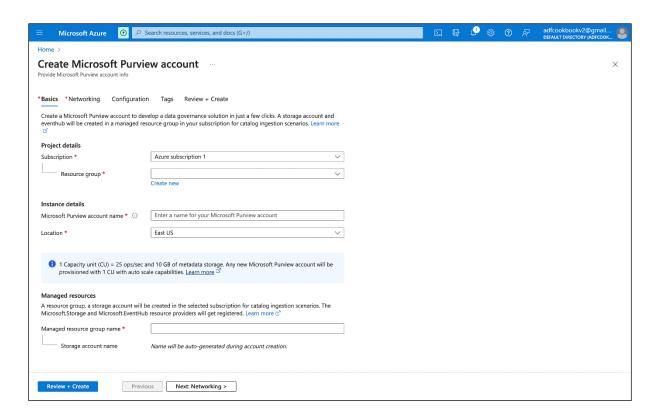


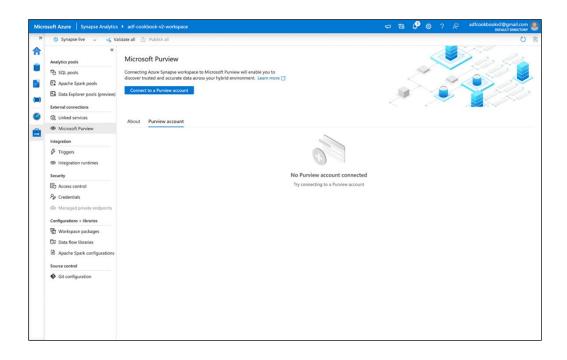


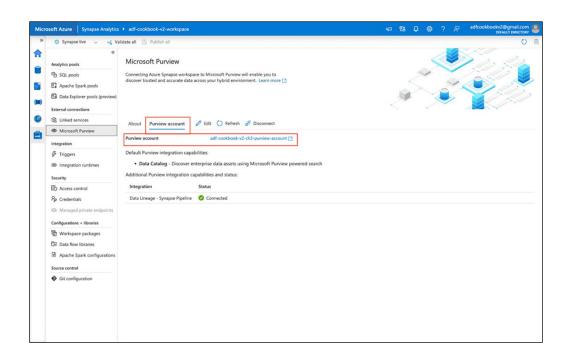


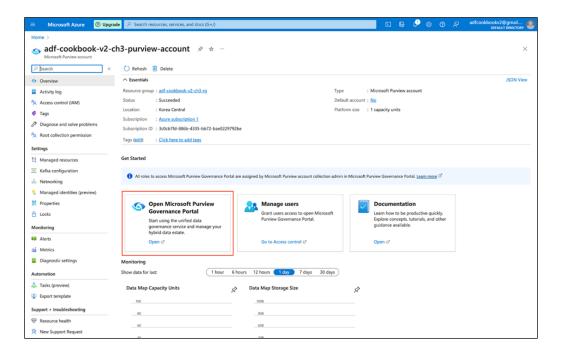


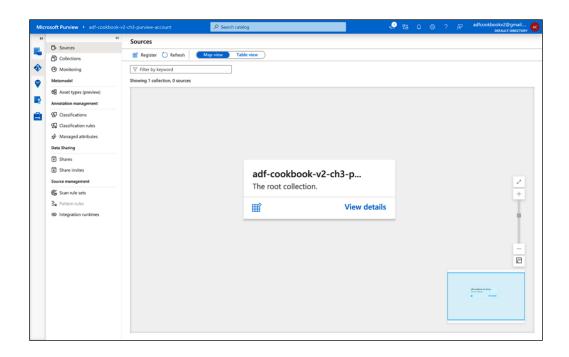


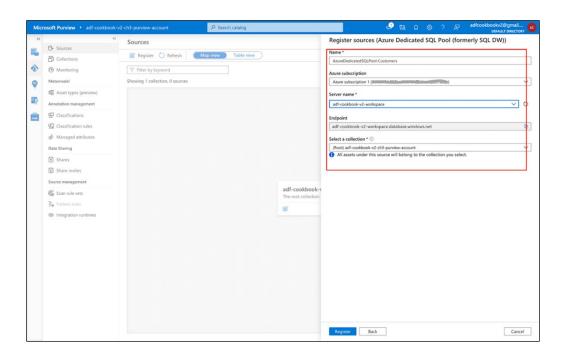


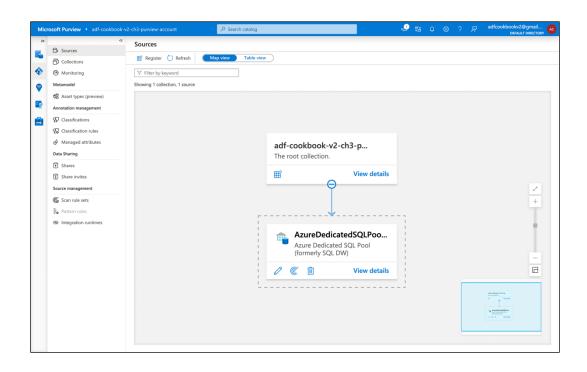


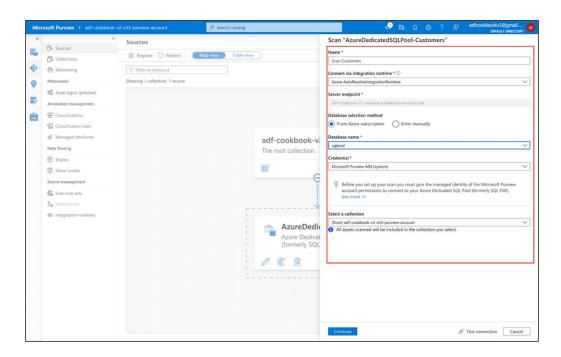


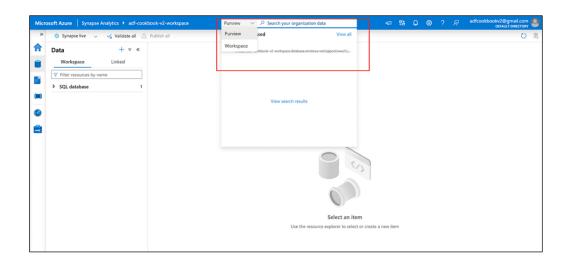


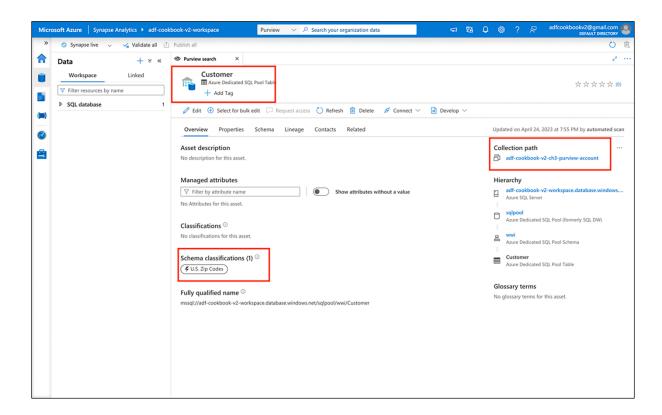


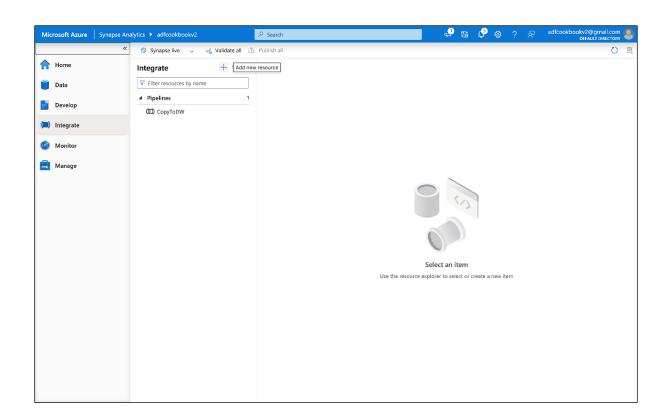


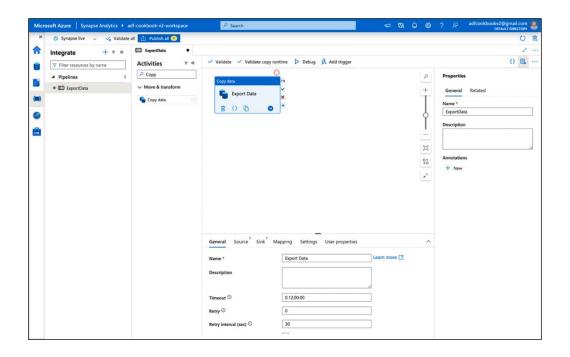


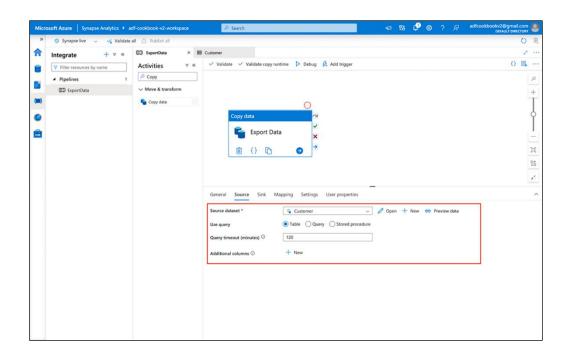


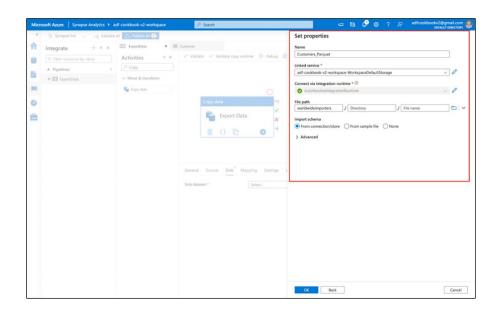


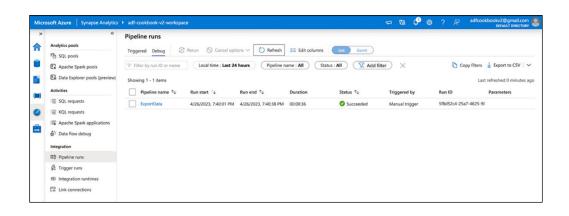


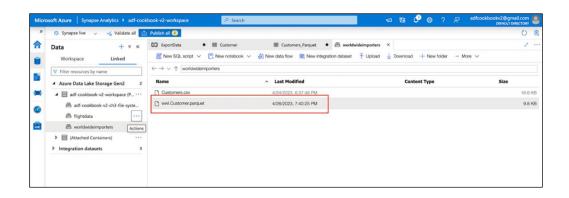


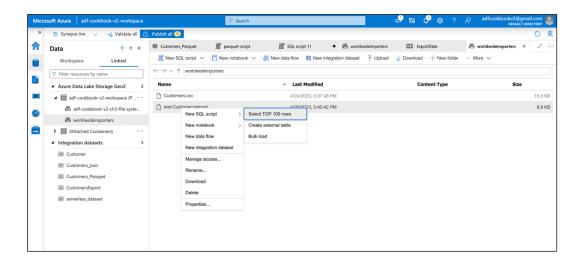


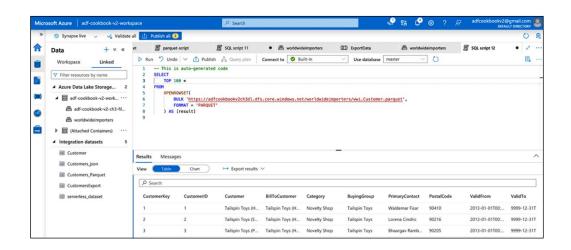


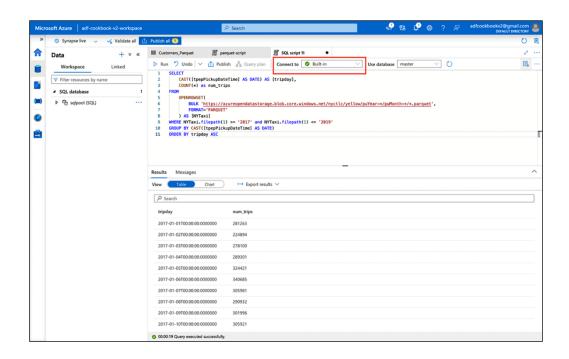


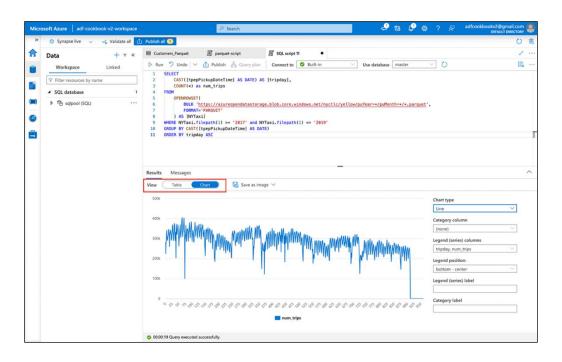


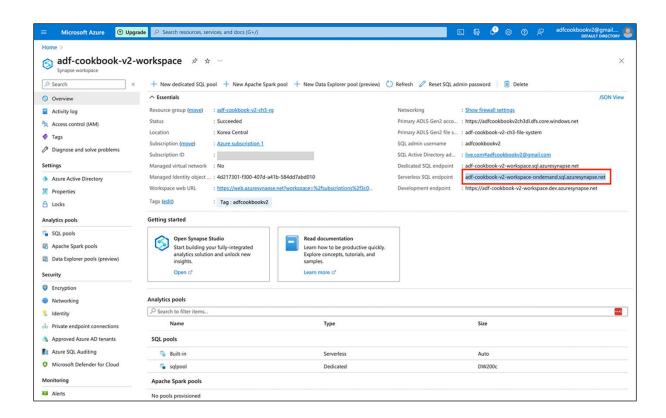


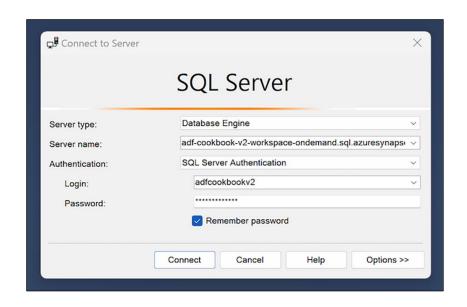


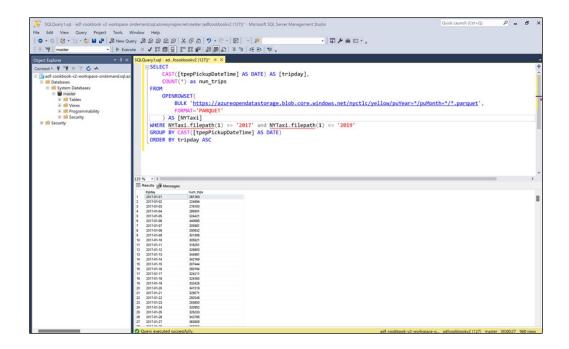




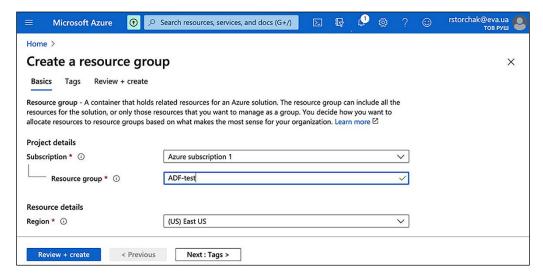


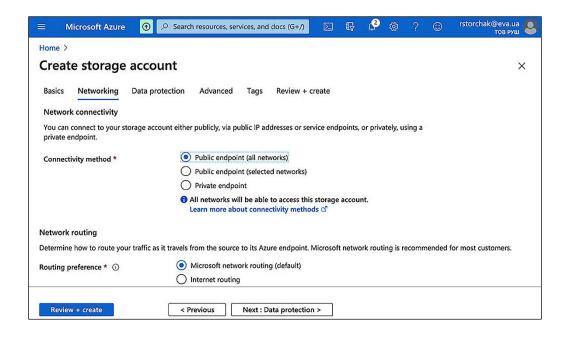


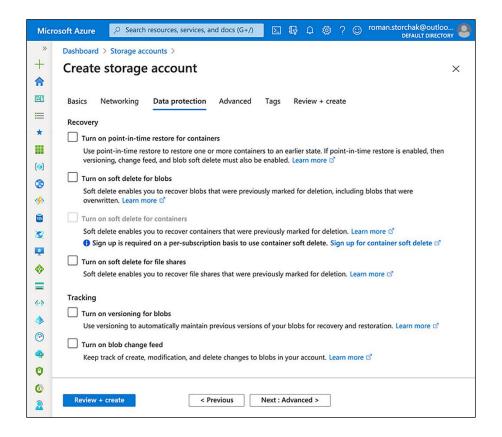


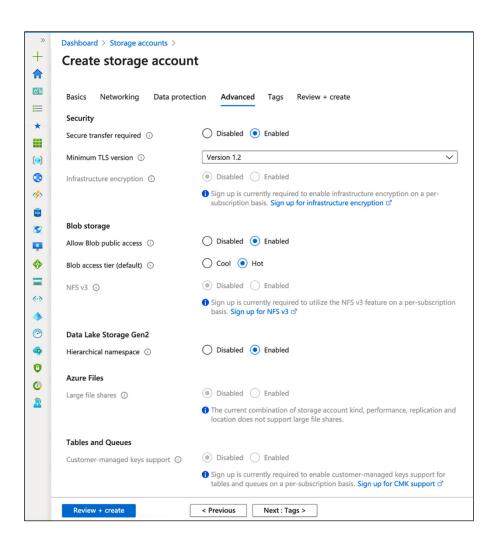


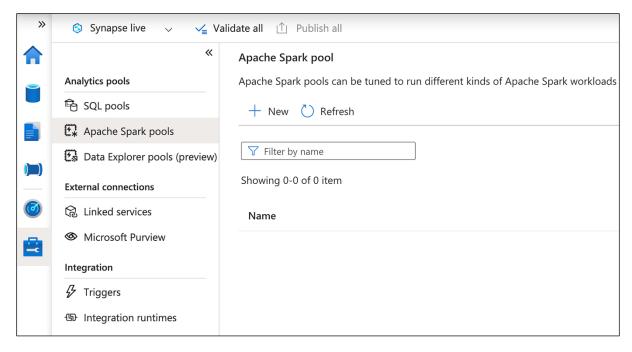
Chapter 4: Working with Data Lake and Spark Pools

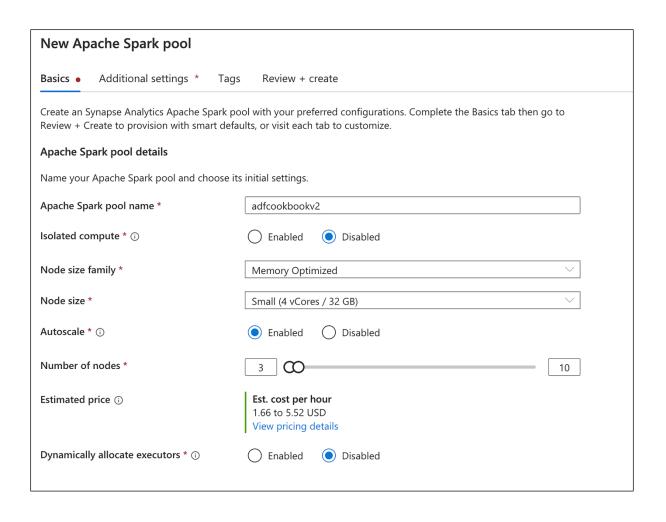




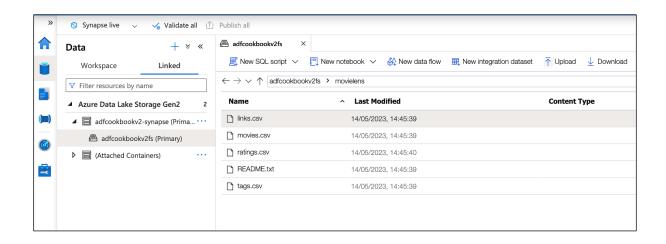


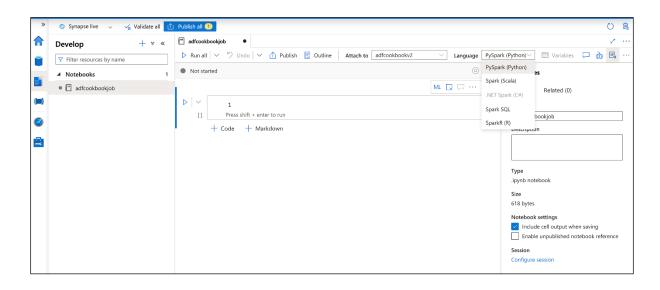


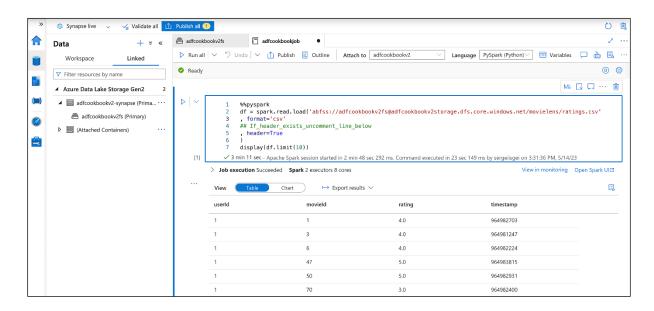


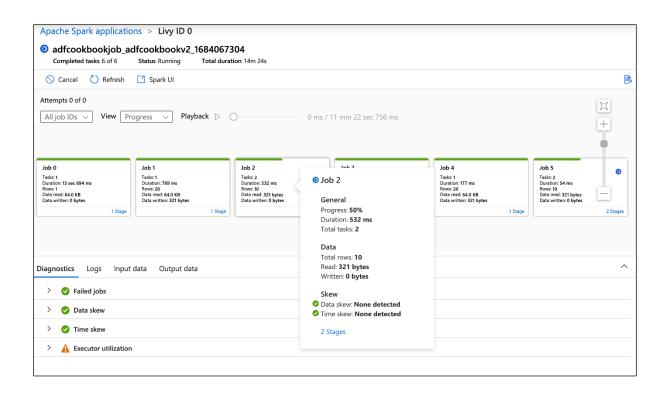


New Apache Spark pool		
Basics *	Additional settings * Tag	gs Review + create
Customize additional parameters including pause settings and component versions.		
Automatic pausing		
Configure the pause settings for the Apache Spark pool.		
Automatic pausing * (i)		Enabled
Number of minutes idle *		15

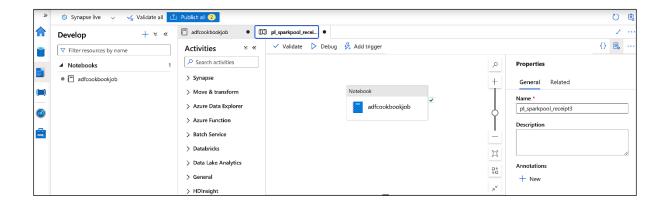


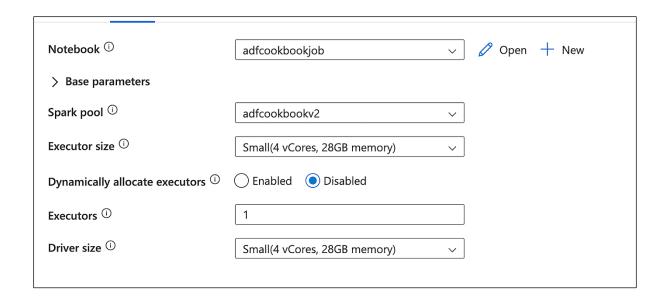


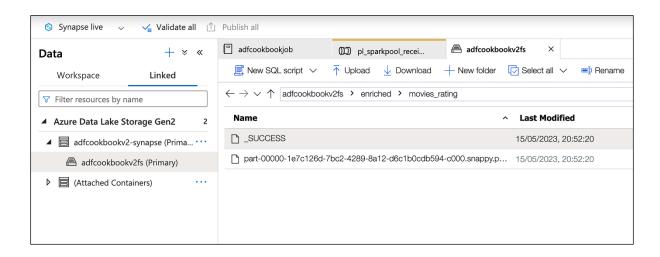




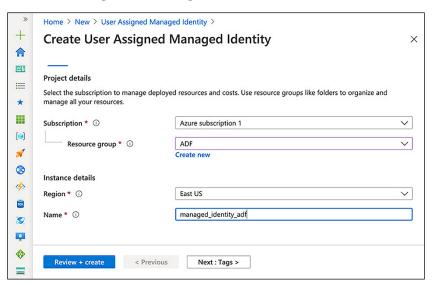


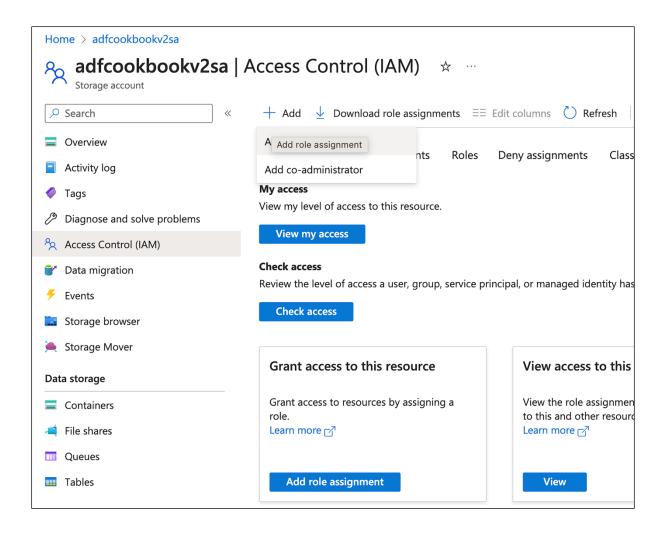


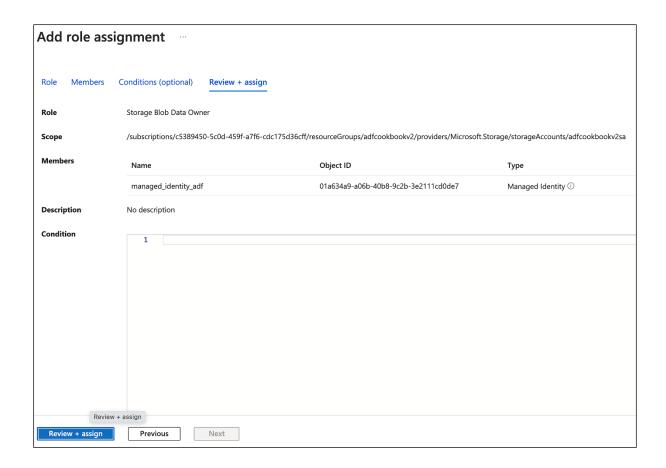


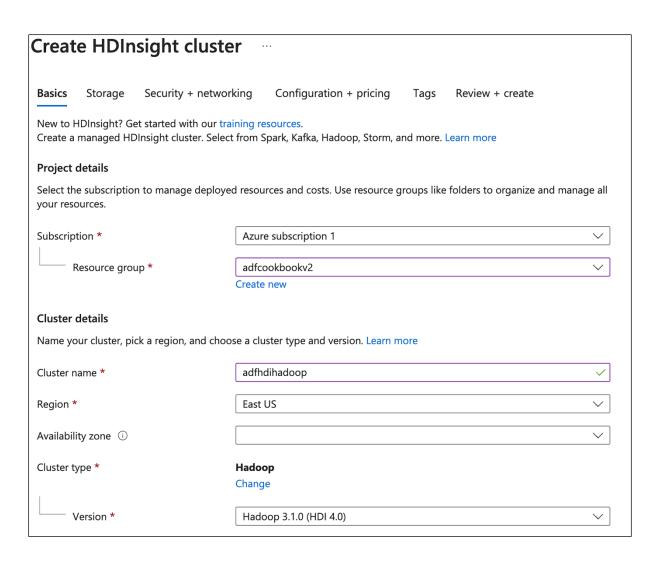


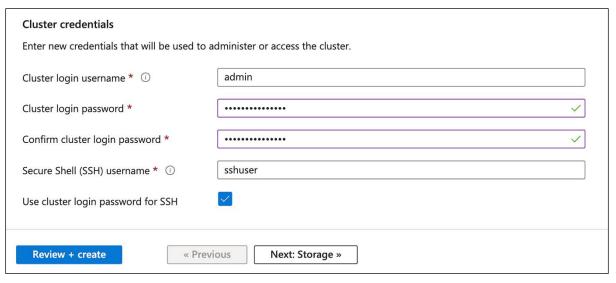
Chapter 5: Working with Big Data and Databricks

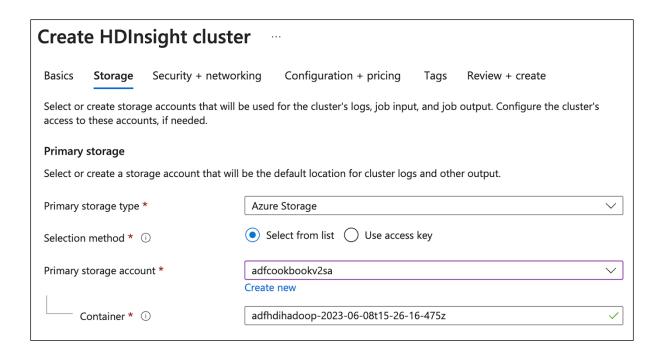


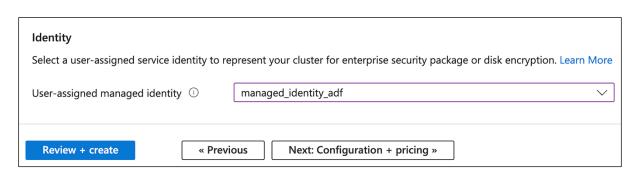


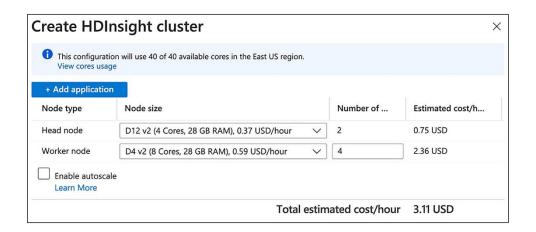


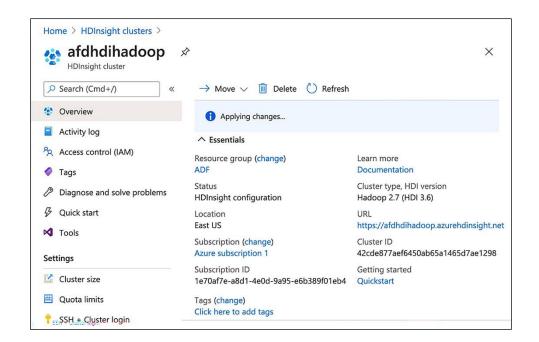


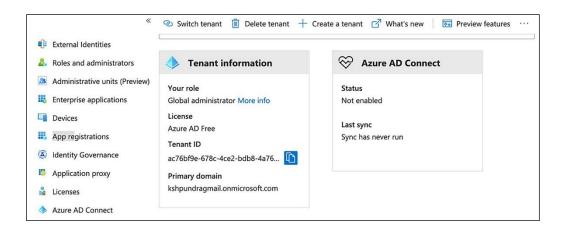


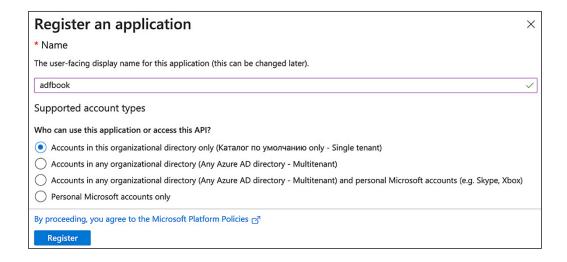


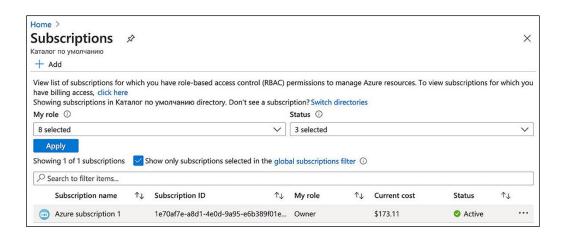


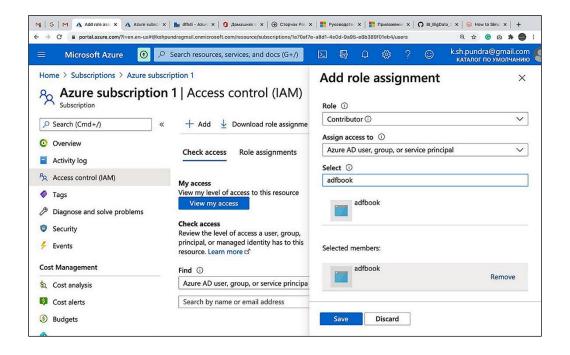


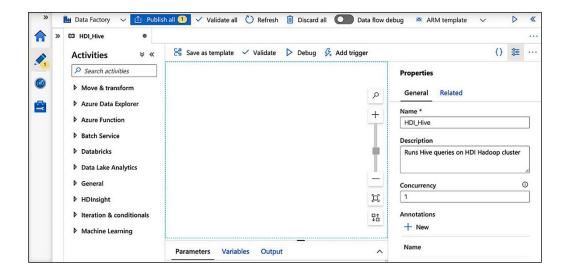


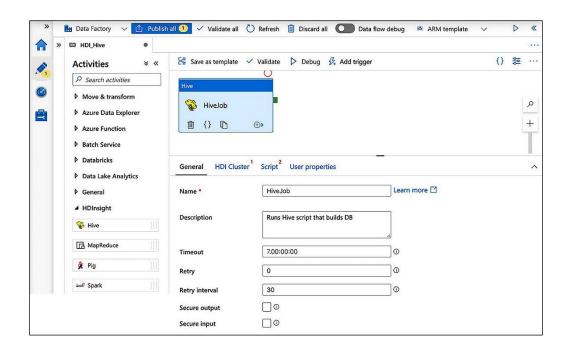


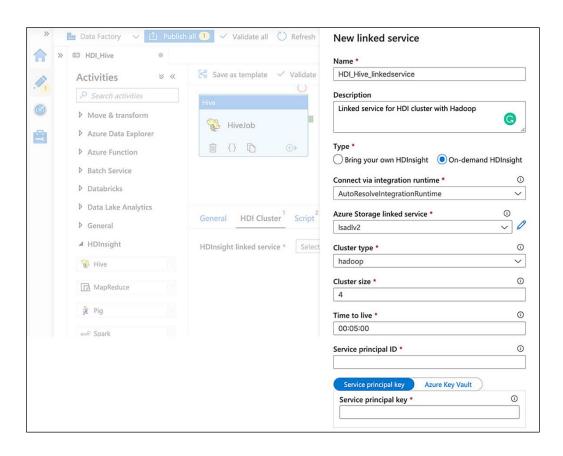


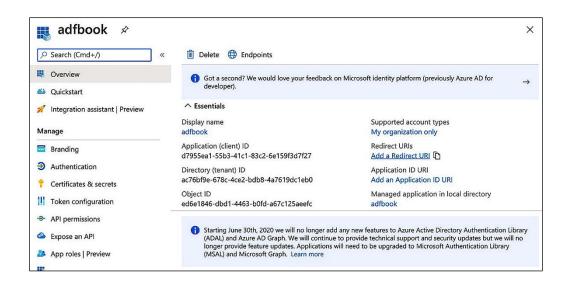


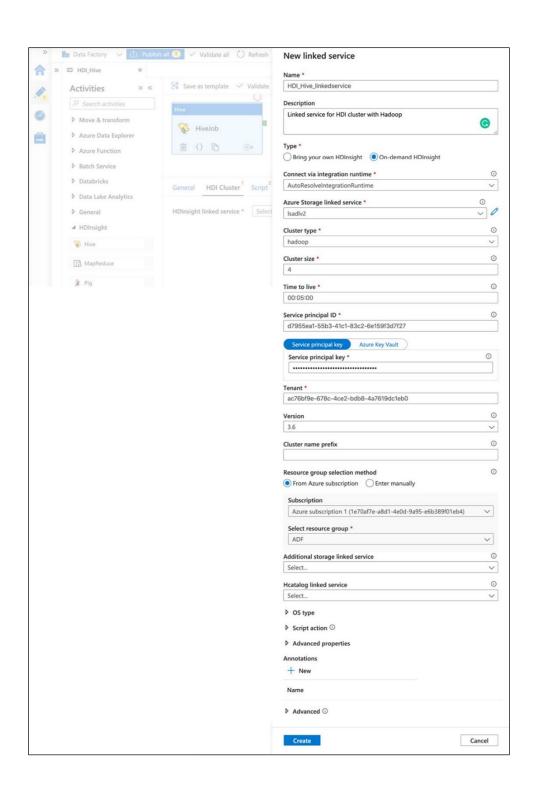




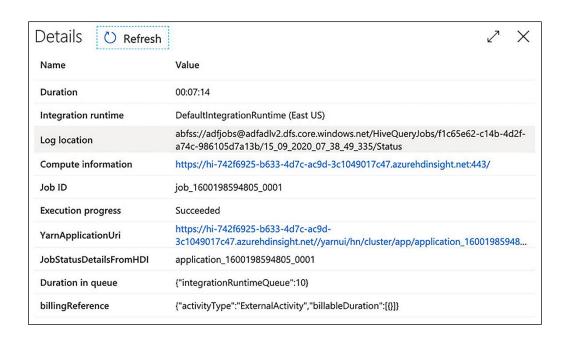


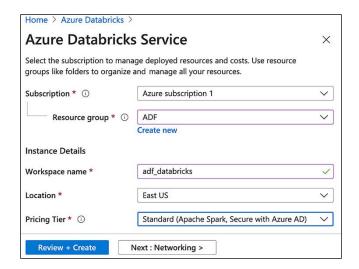


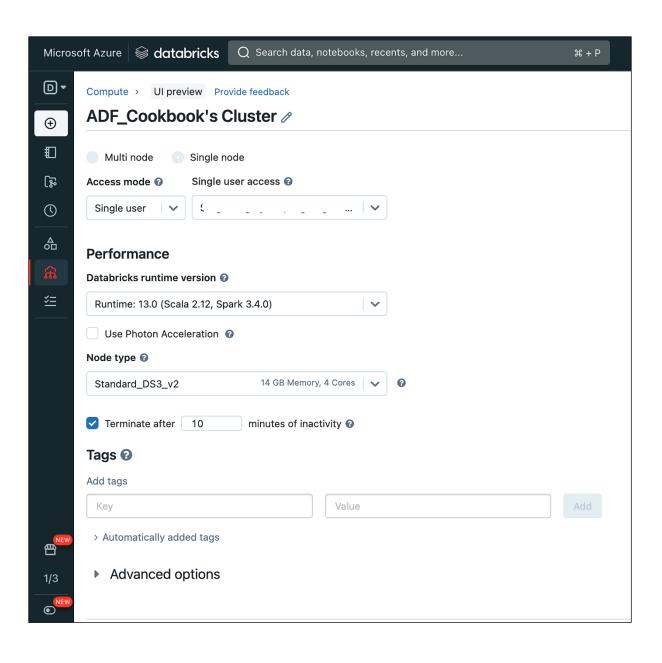


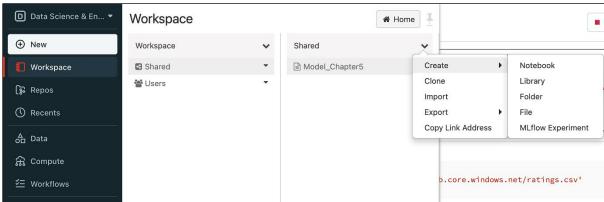


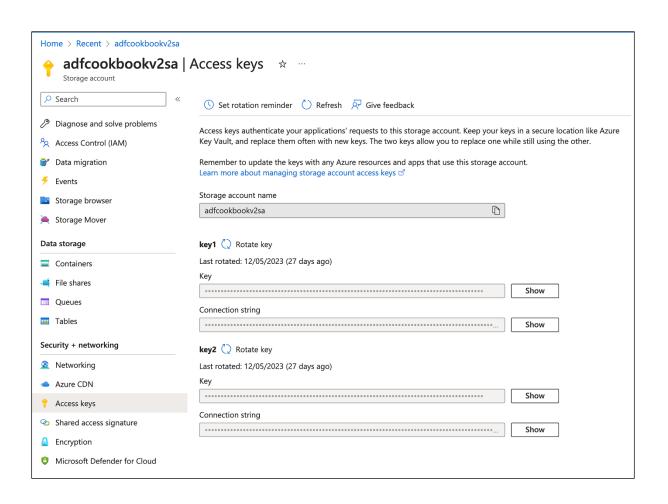


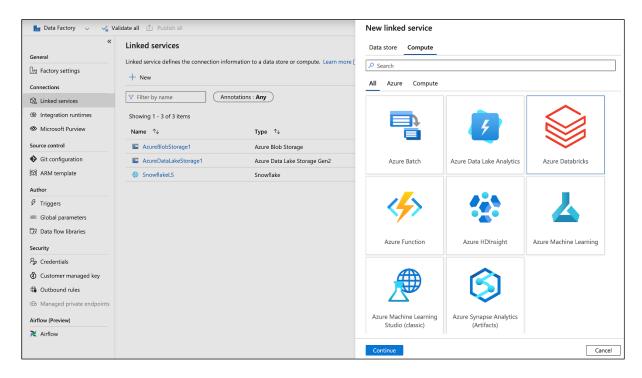




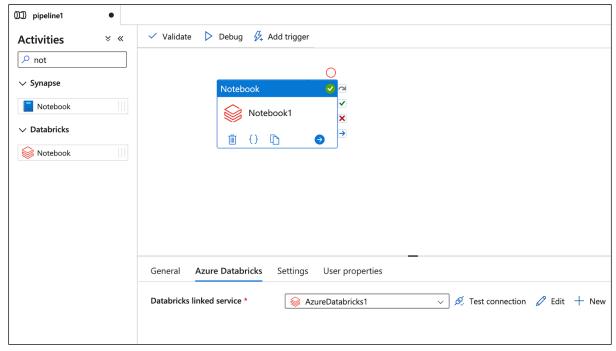


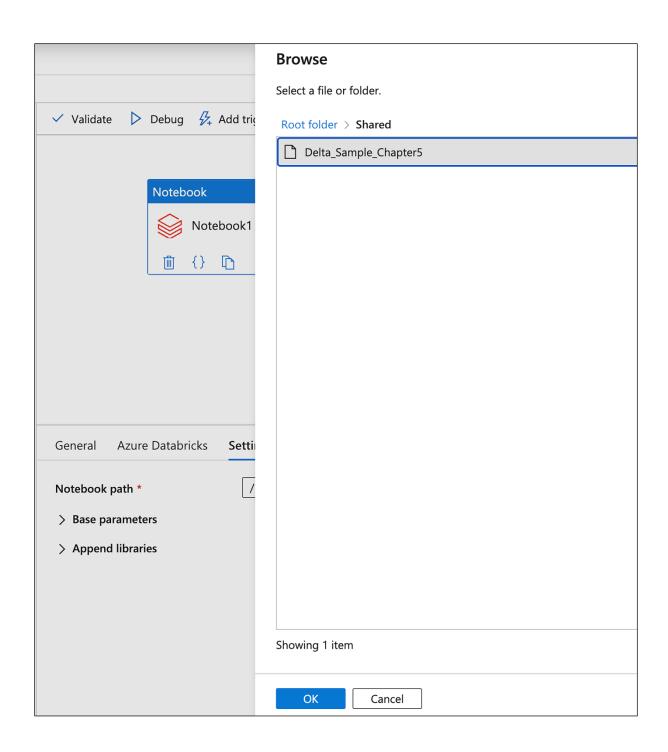


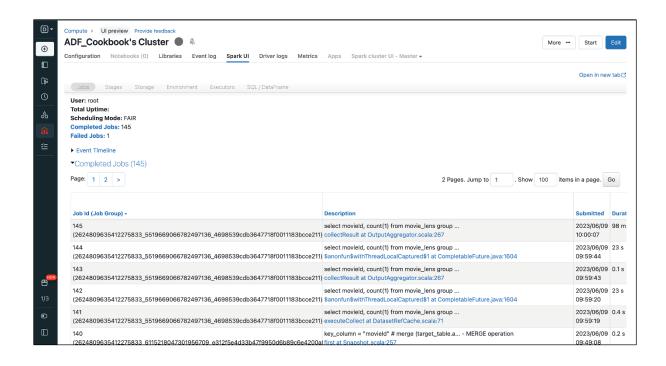


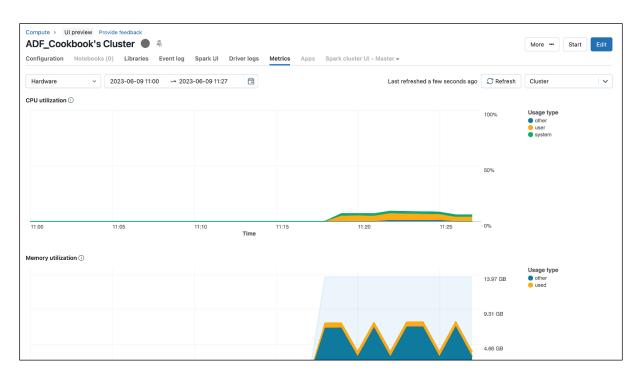


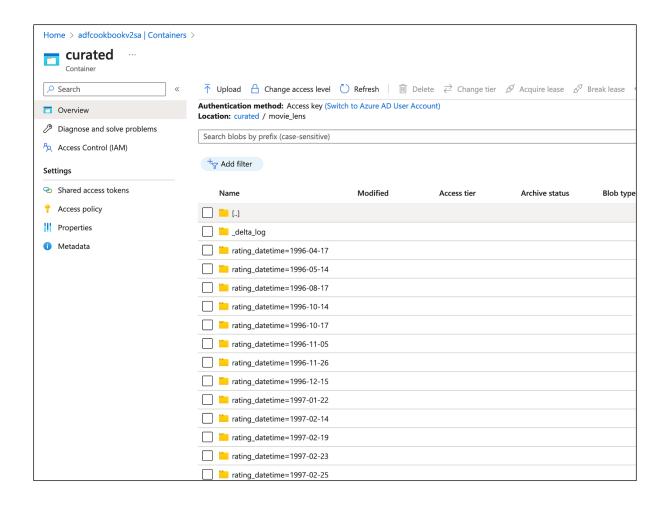


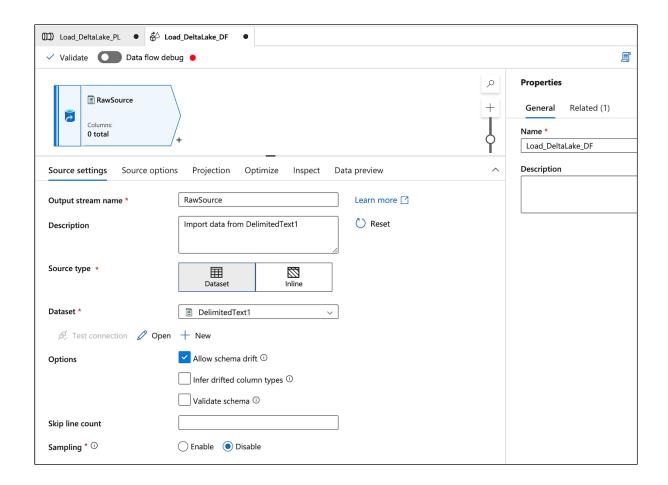


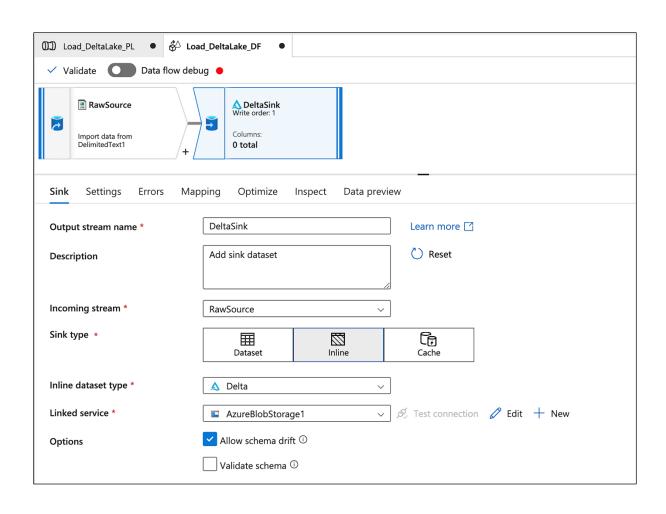


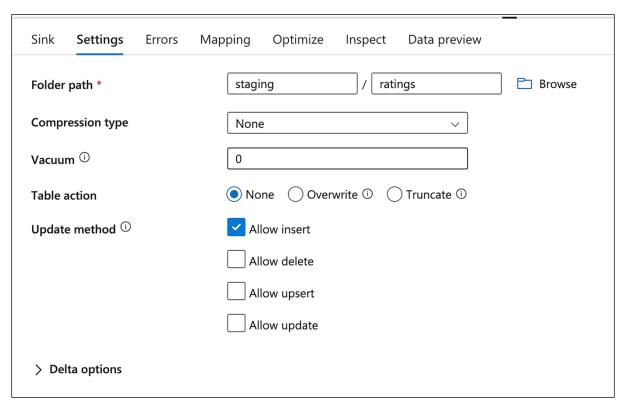


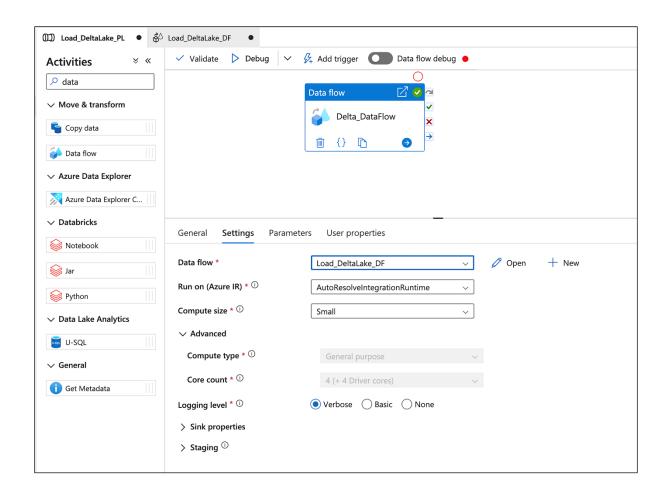


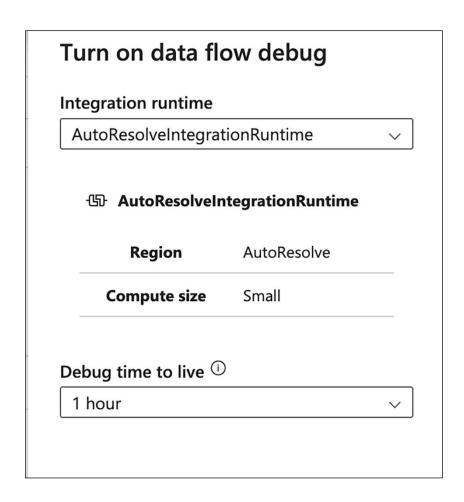


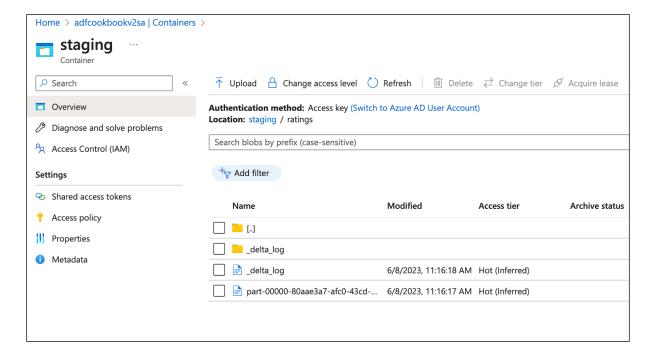


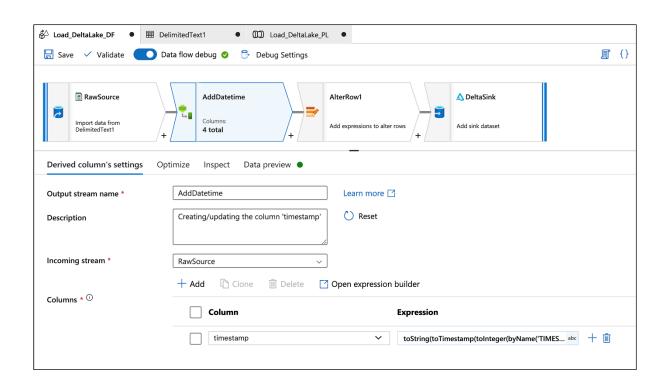


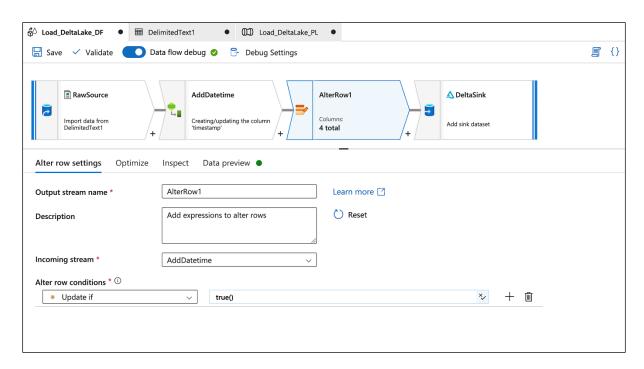


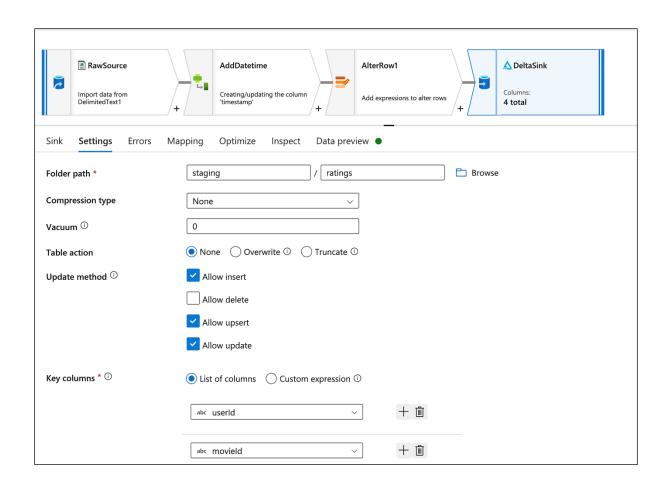


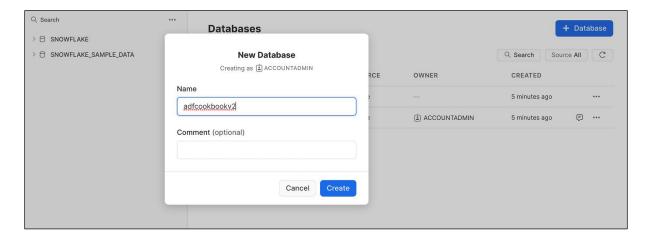


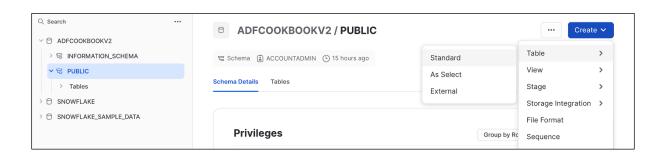


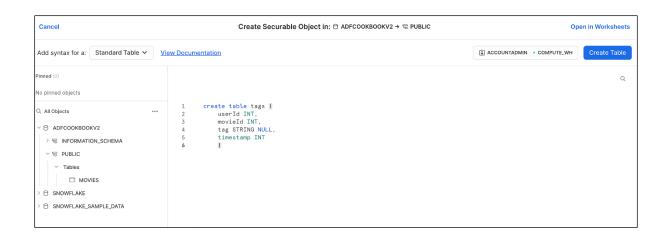


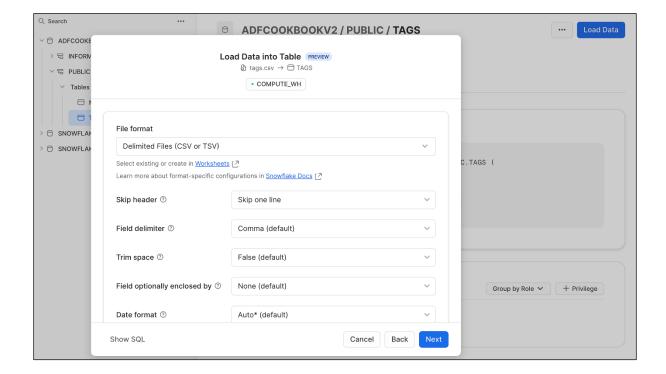


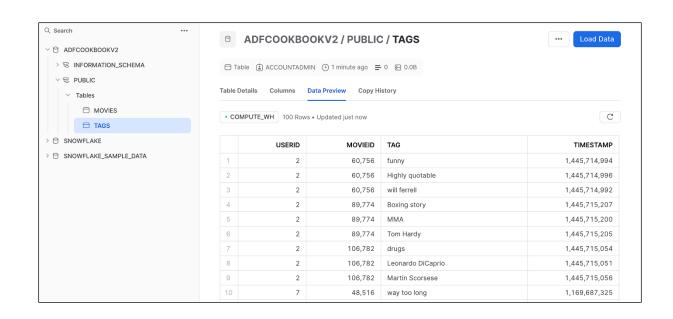


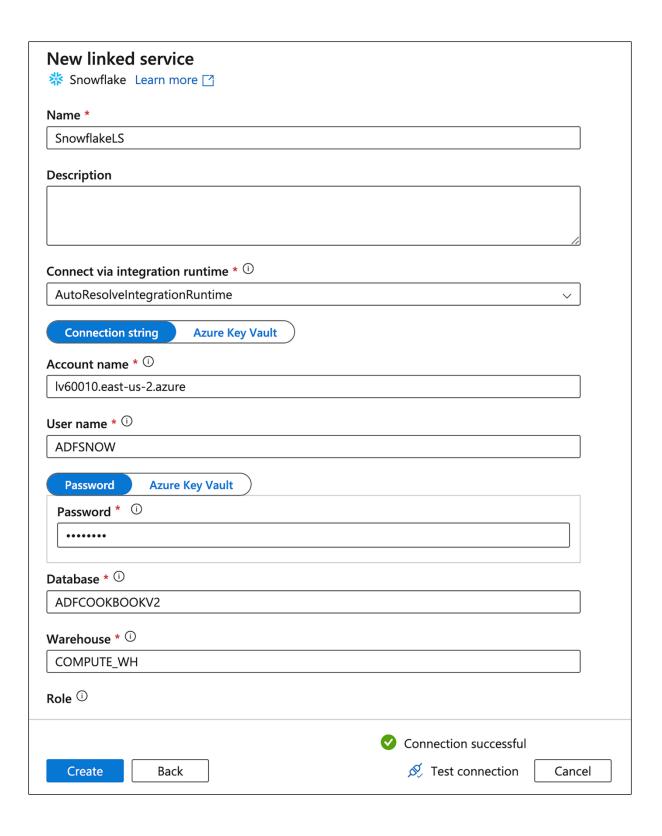


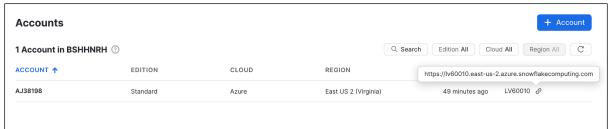


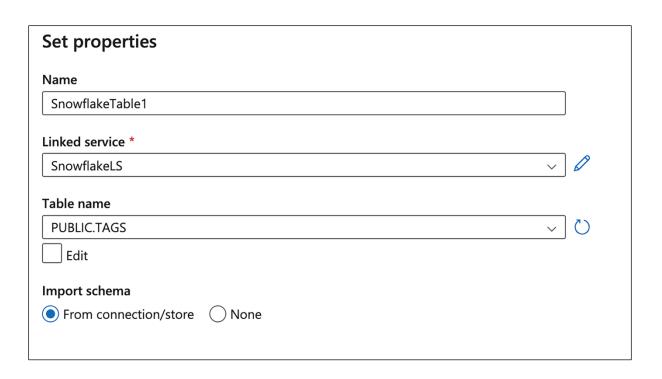


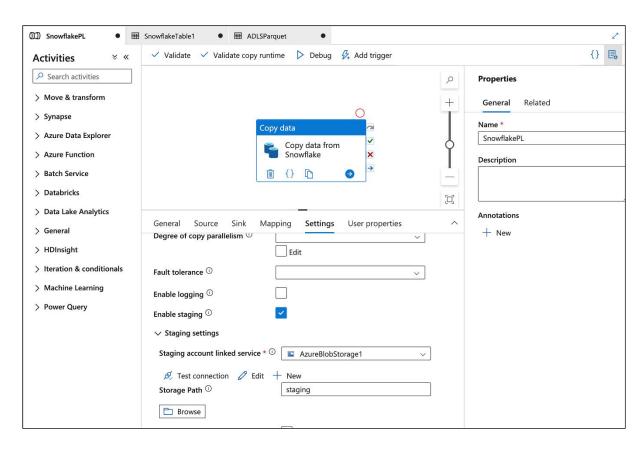


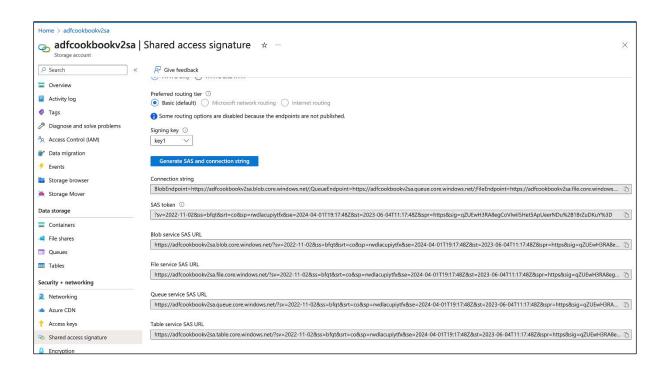


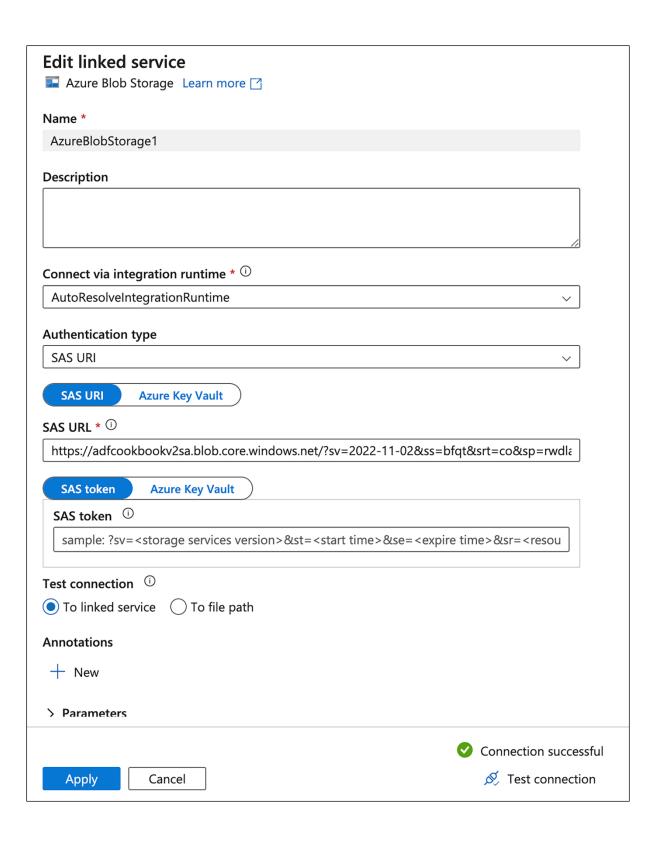


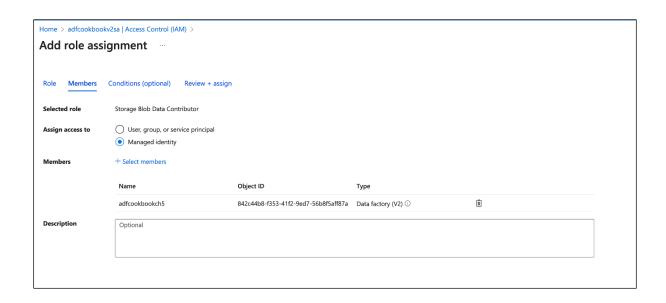


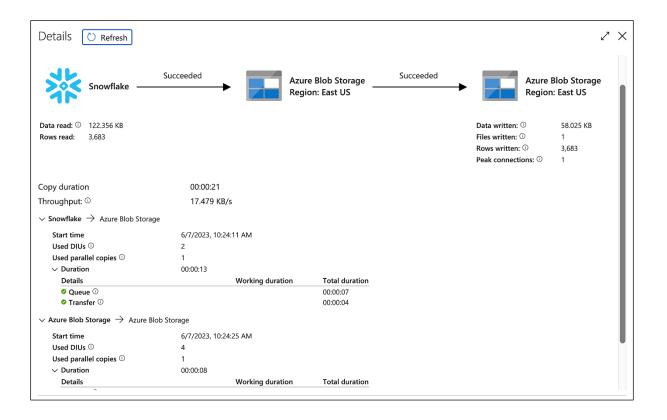




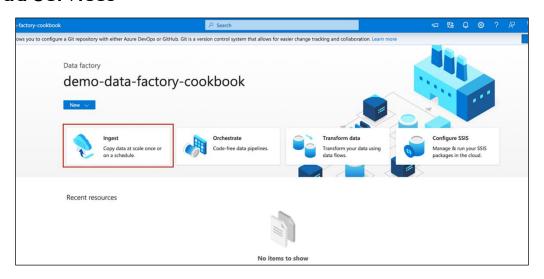


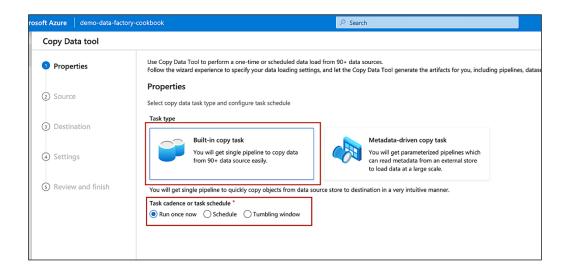


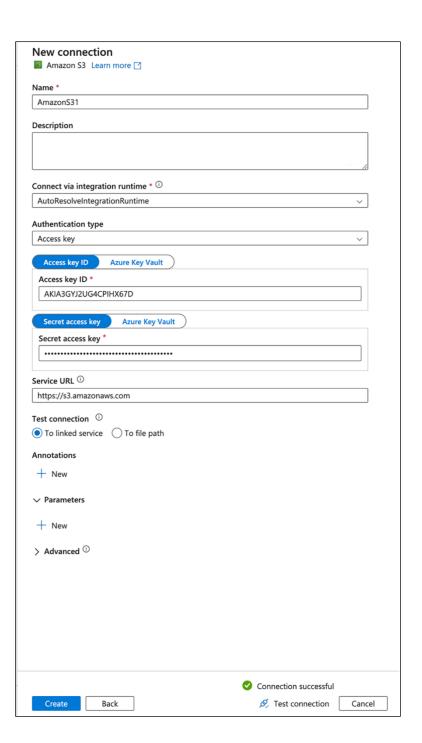


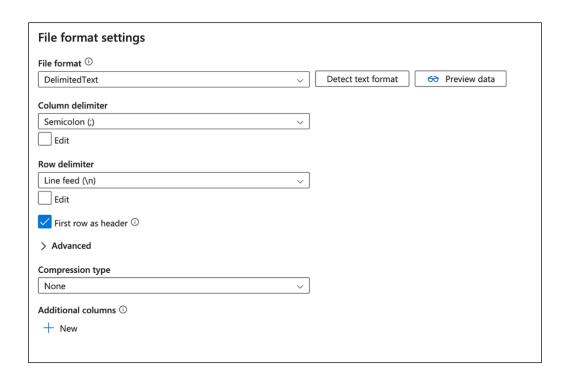


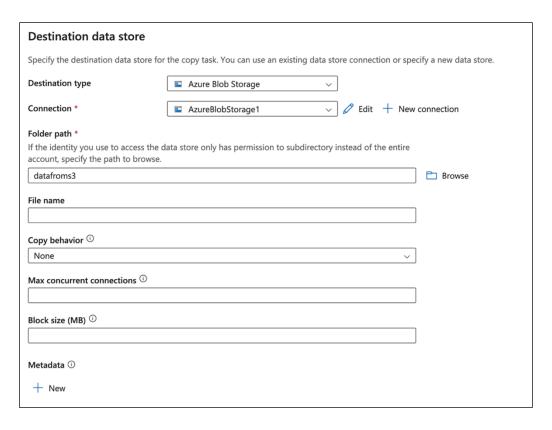
Chapter 6: Data Migration - Azure Data Factory and Other Cloud Services

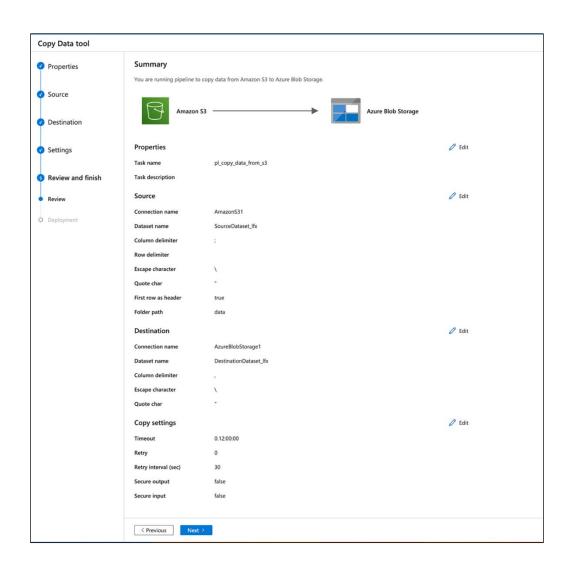




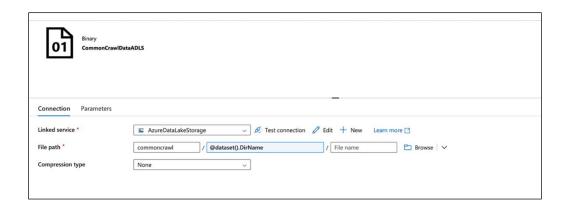


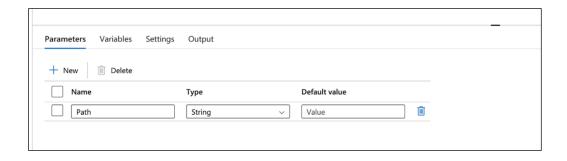


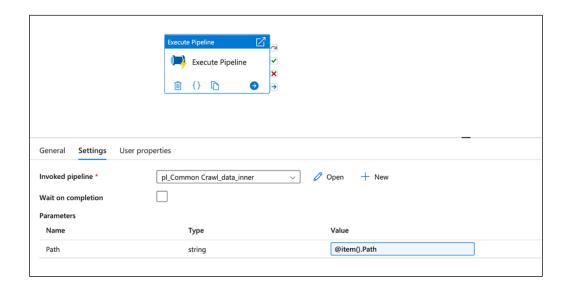


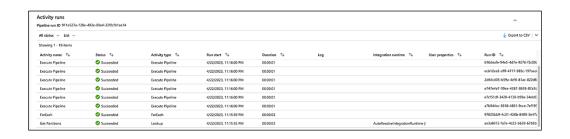












Settings

PROJECT ACCESS

INTEROPERABILITY

The Interoperability API allows Google Cloud Storage to interoperate with tools written for other cloud storage systems. This enables you to <u>run migrations to Cloud Storage</u> and to authenticate both user and service accounts using keyed-hash message authentication codes (HMAC). Learn more

Request endpoint

Make sure the request endpoint in the tools or libraries you use with other cloud storage systems (e.g., Amazon S3) uses the Cloud Storage URI.

Storage URI https://storage.googleapis.com

Service account HMAC

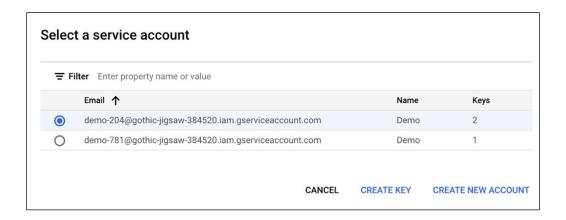
Use access keys with your organization's Cloud Platform service accounts when you don't want to tie HMAC authentication to specific user accounts. Recommended for production workloads. Learn more 🔀

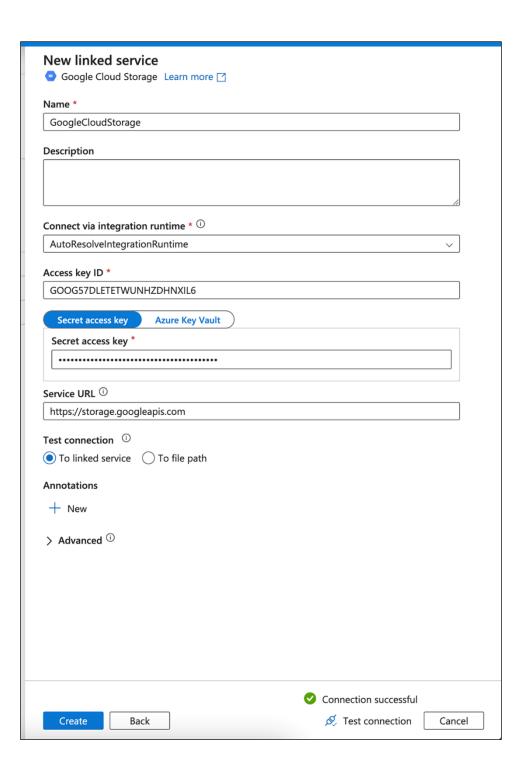
- · Each service account can use up to five keys.
- Note that keys must be deactivated before they can be deleted.
- Grant your service accounts the required permissions for their intended operations typically this is the IAM Storage Object Admin role.

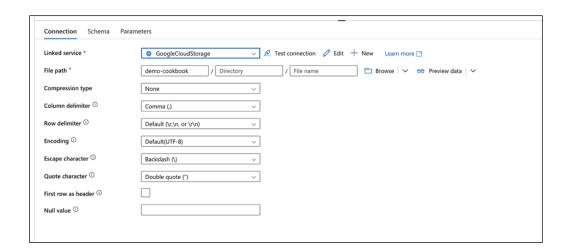
Access keys for service accounts

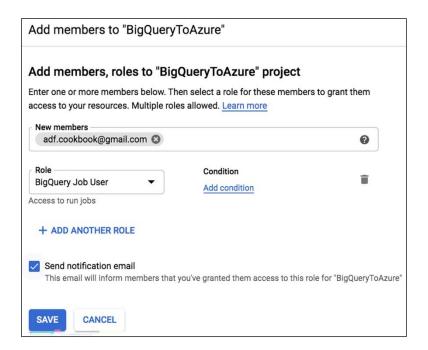
This project doesn't have any service account HMAC keys.

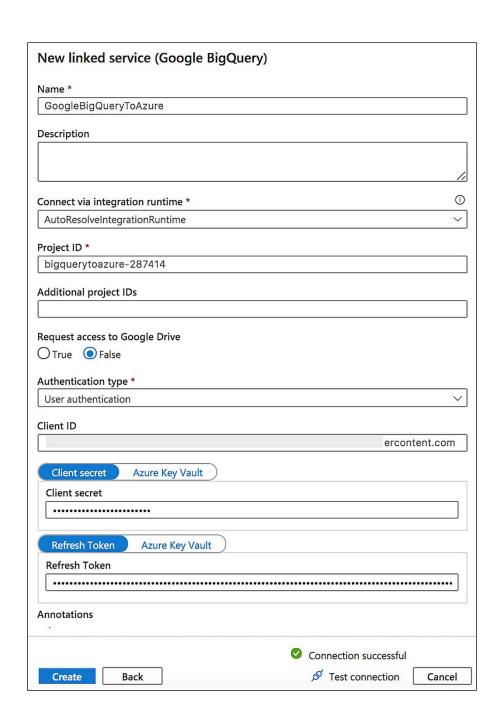
+ CREATE A KEY FOR A SERVICE ACCOUNT

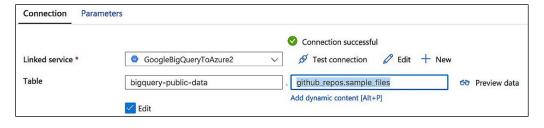




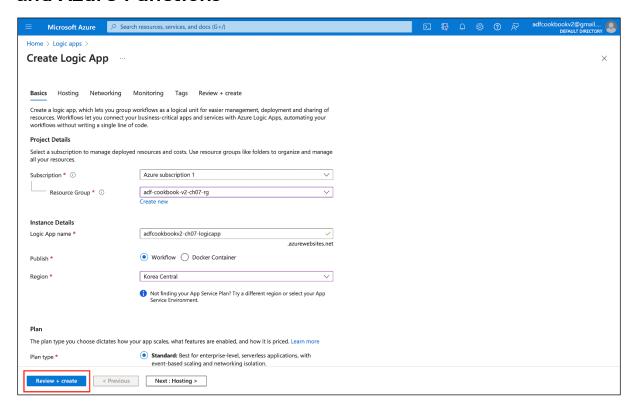


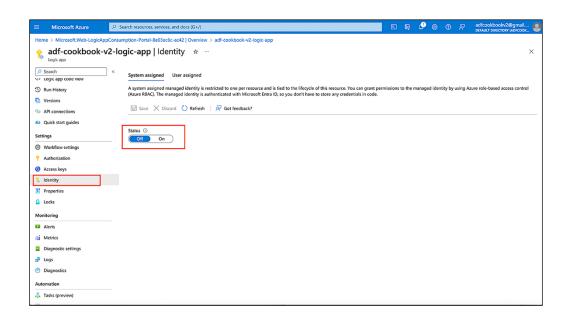


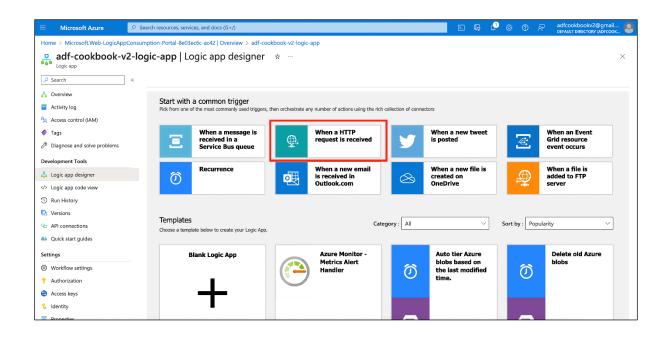


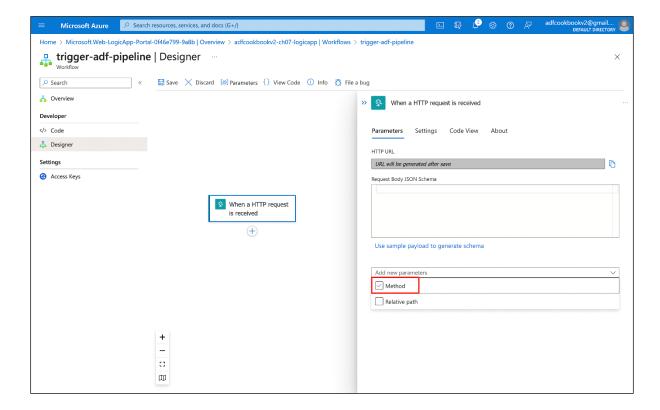


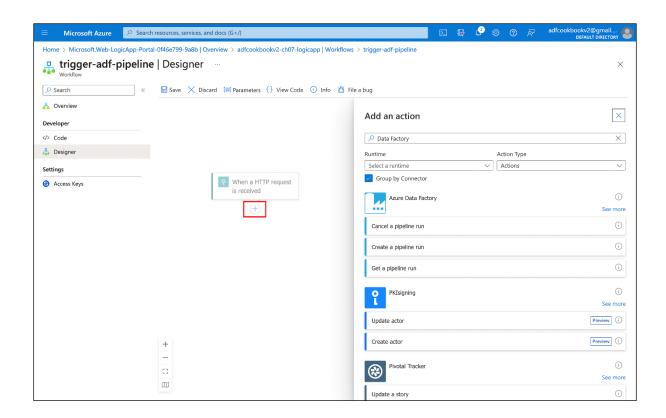
Chapter 7: Extending Azure Data Factory with Logic Apps and Azure Functions

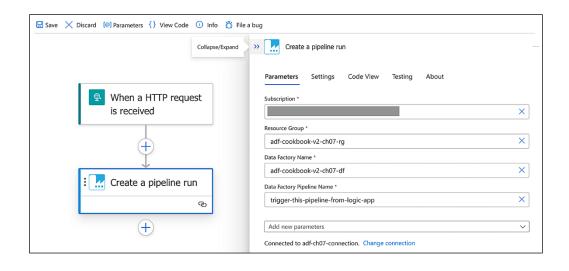


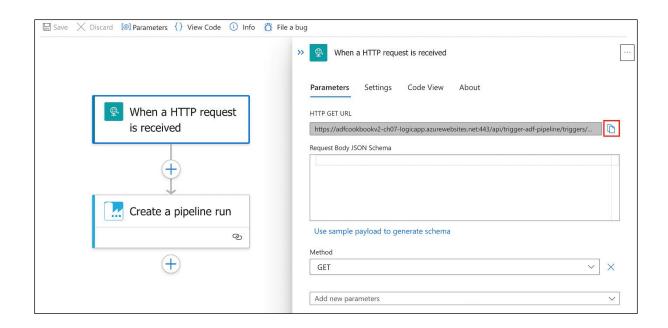


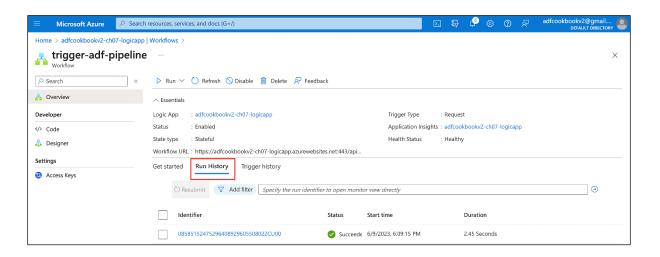


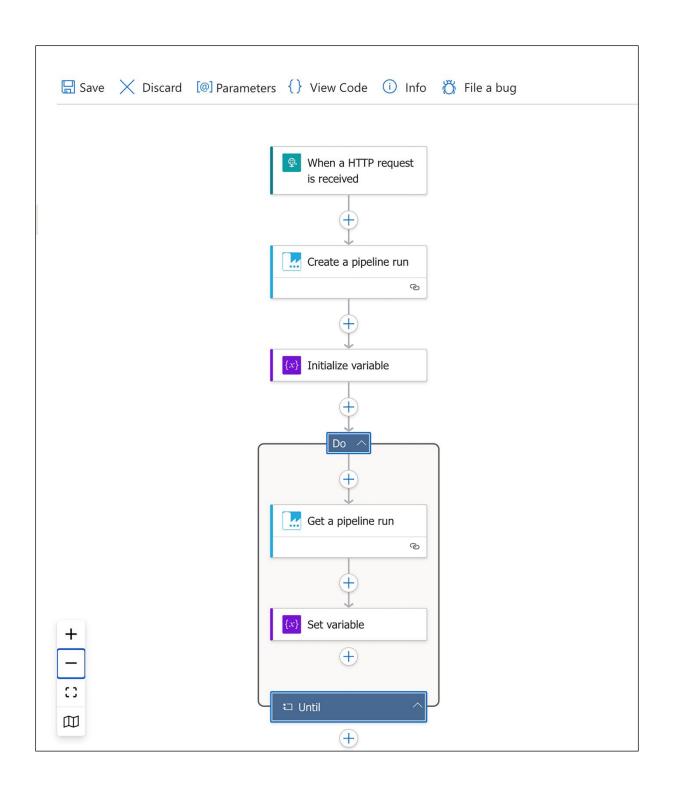


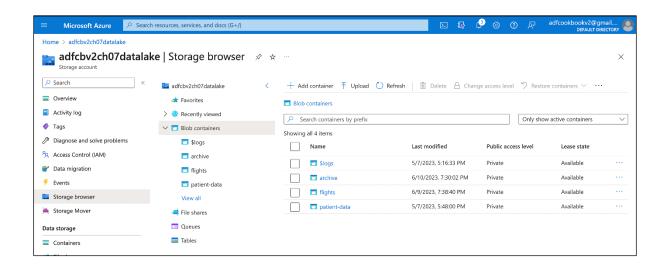


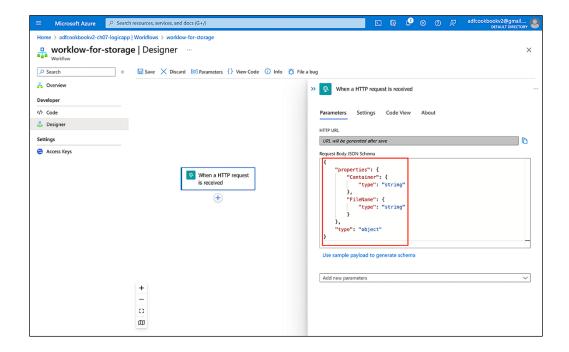


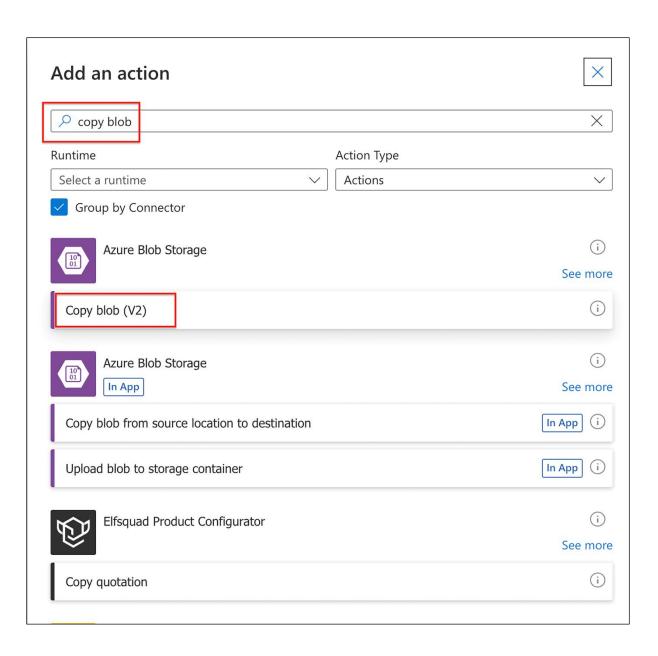


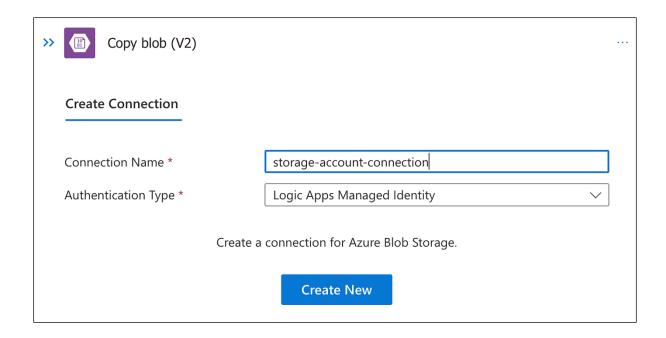


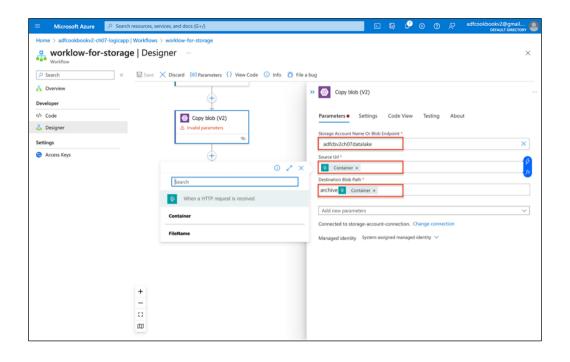


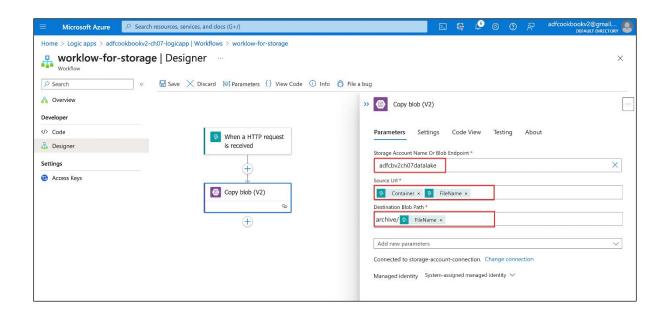


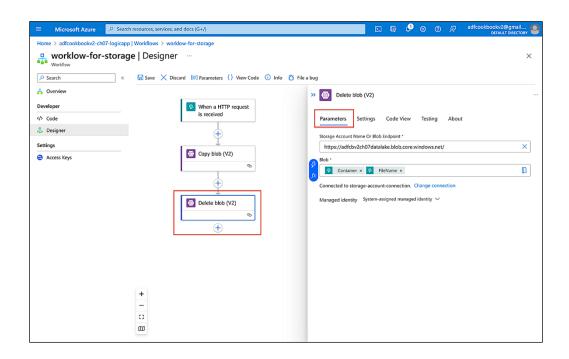


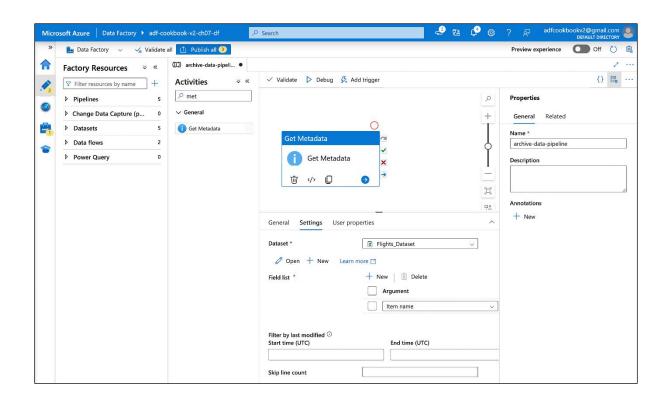


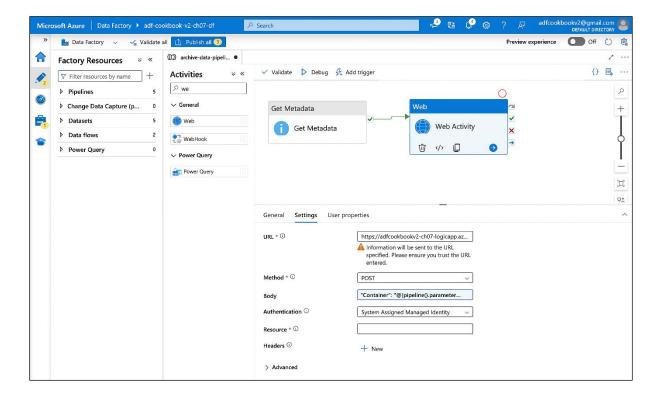


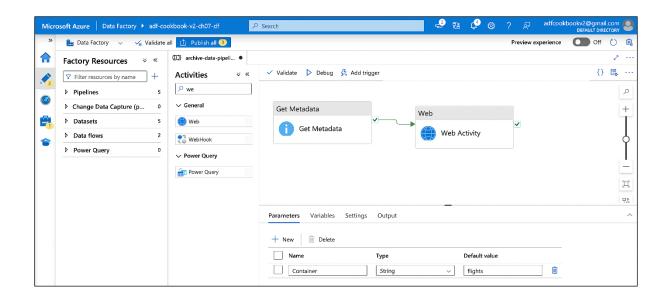


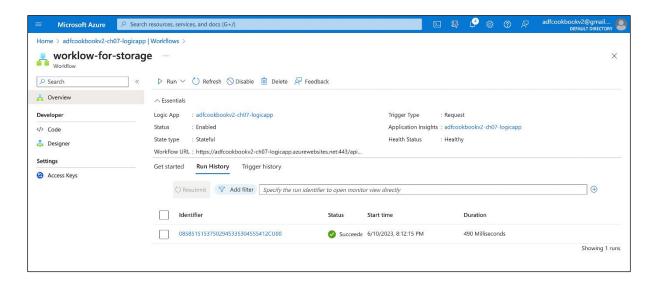


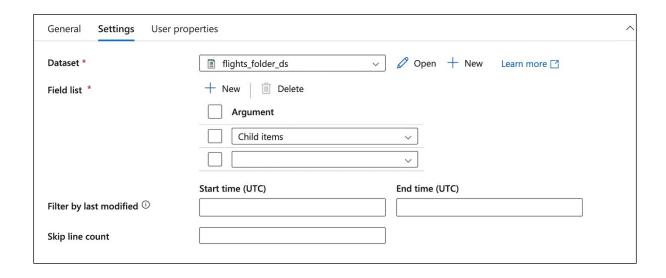


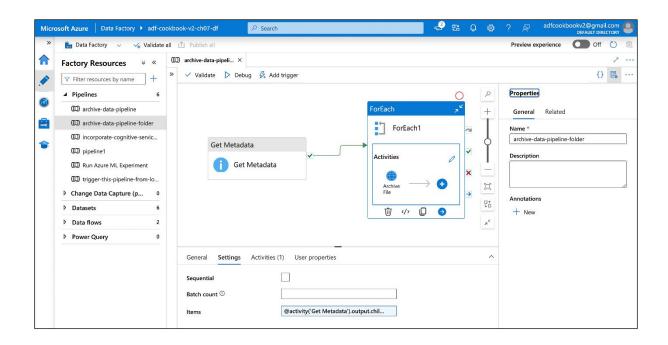


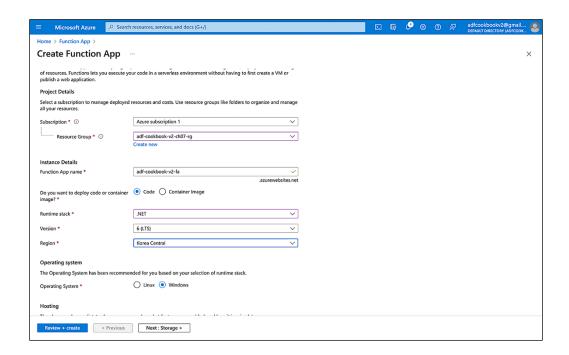


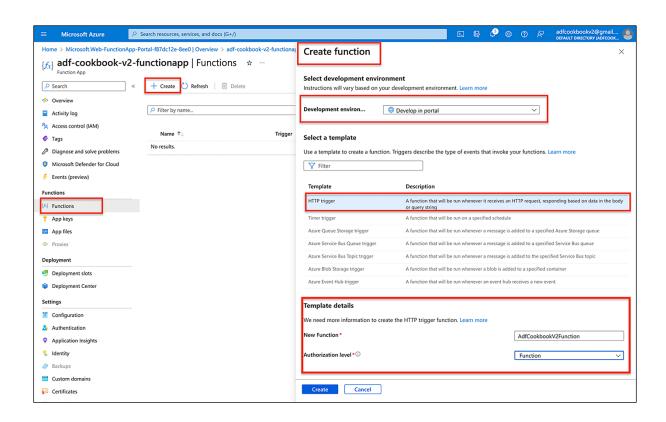


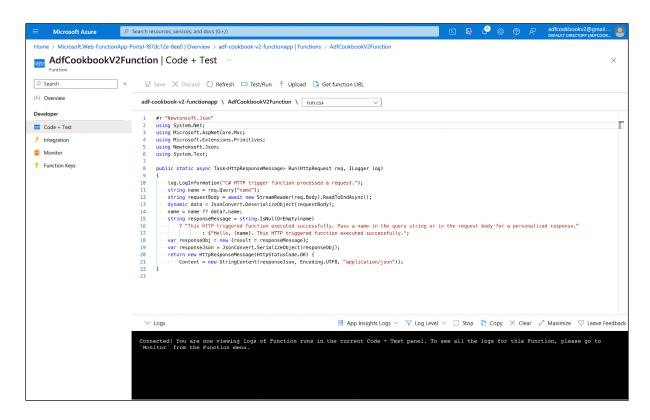


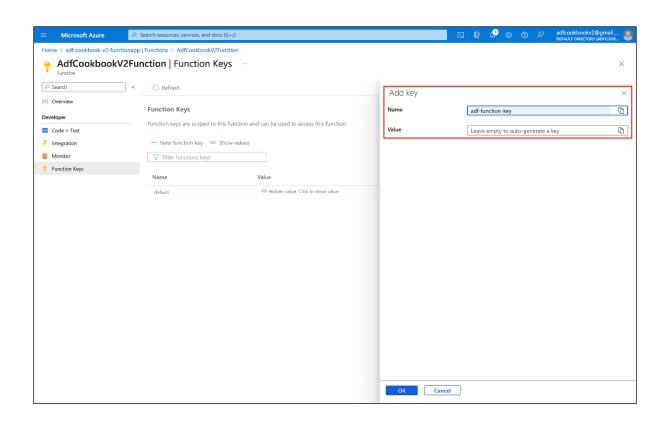


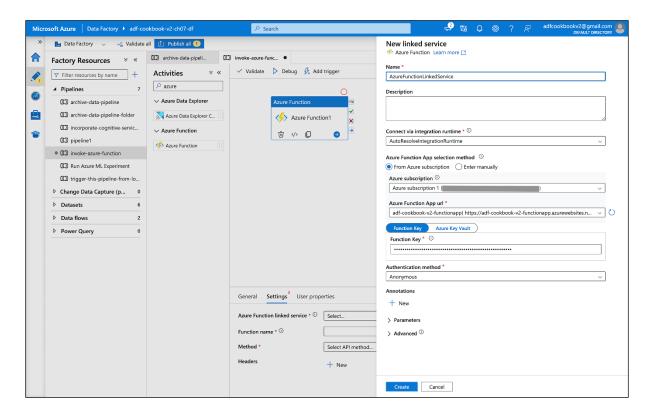


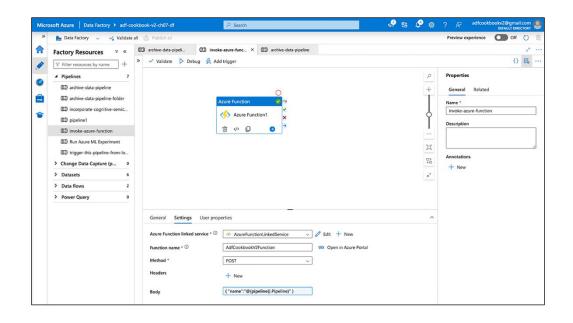


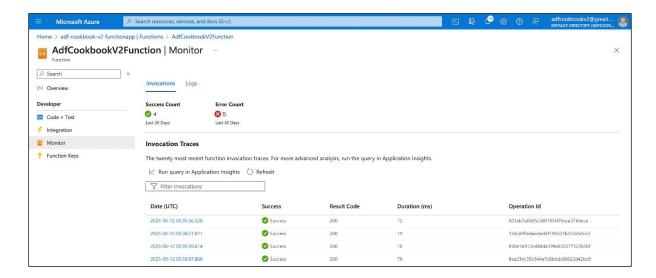




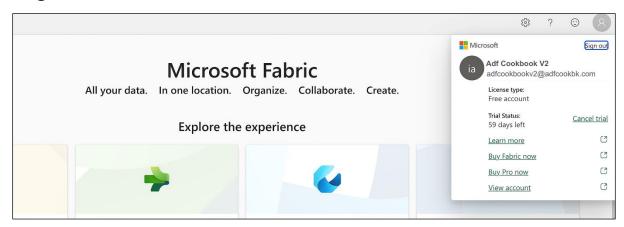


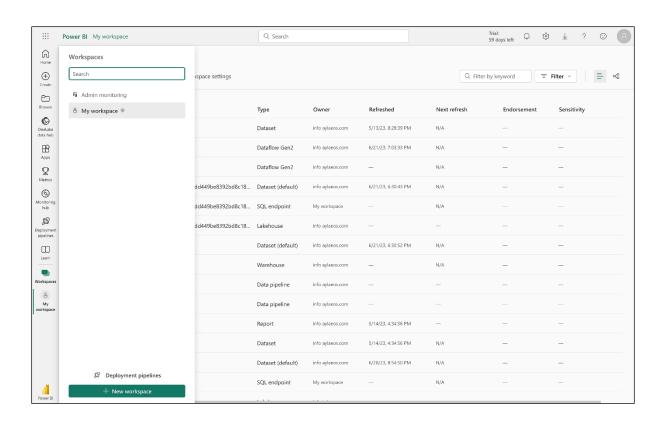


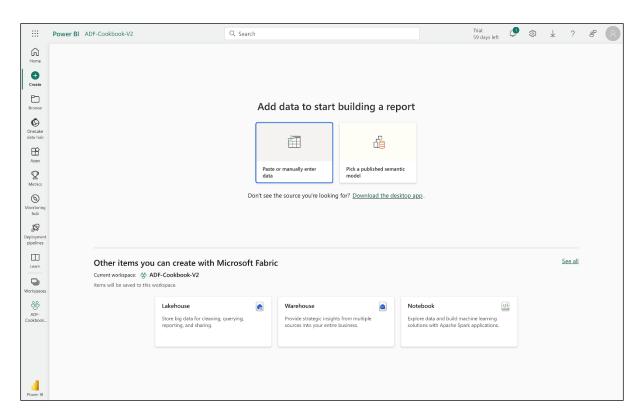


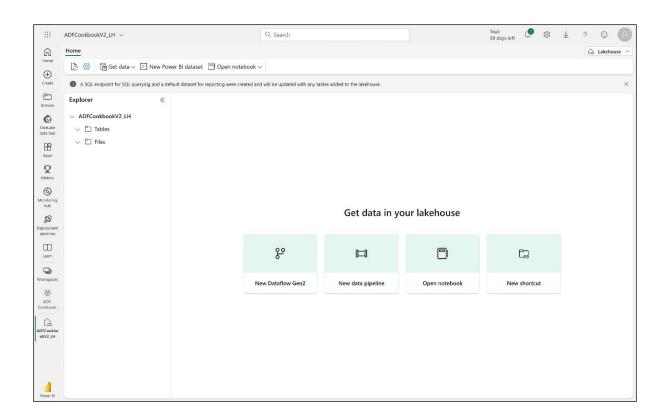


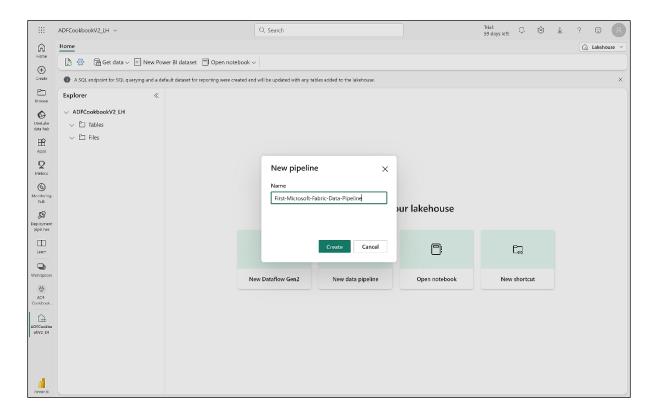
Chapter 8: Microsoft Fabric and Power BI, Azure ML, and Cognitive Services

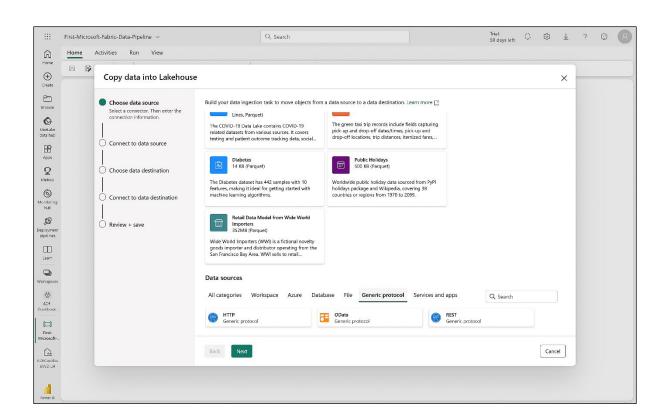


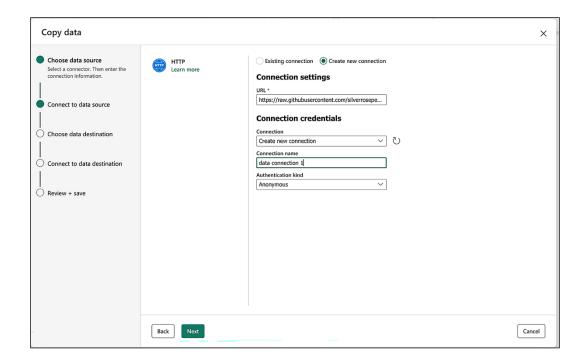


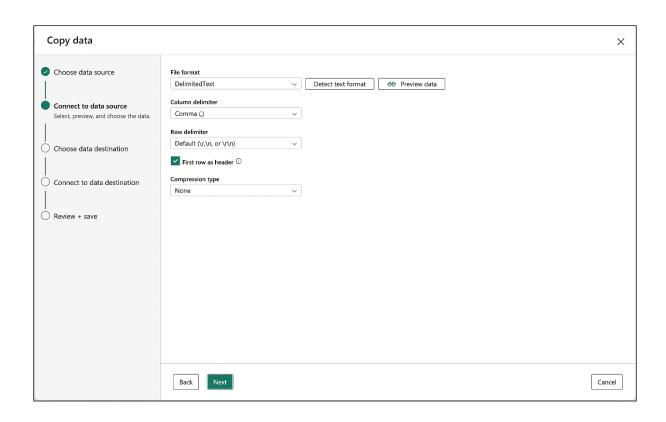


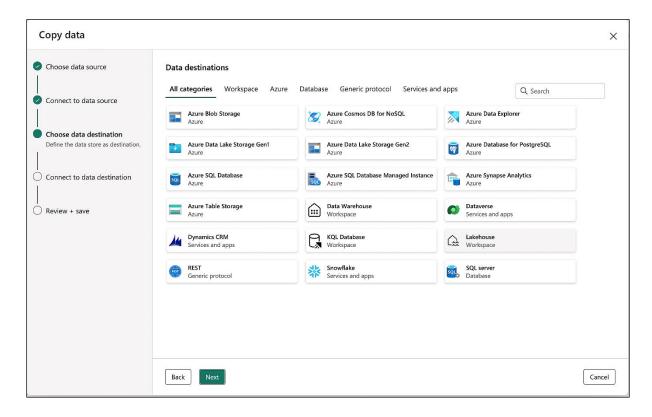


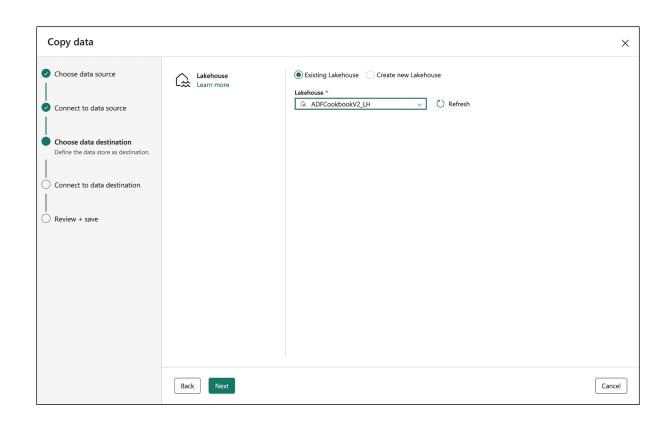


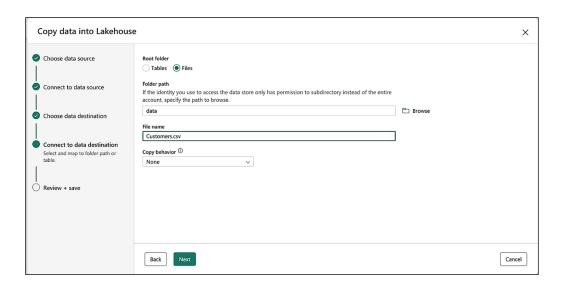


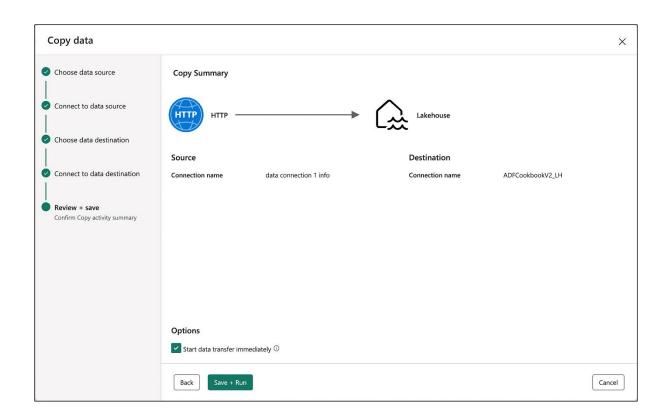


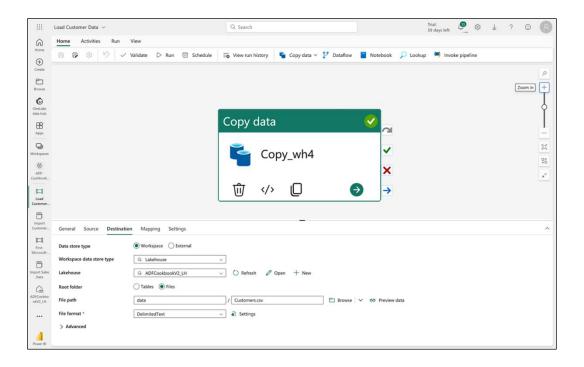


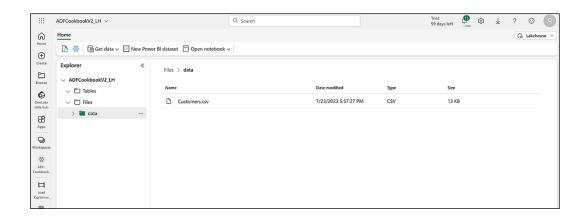


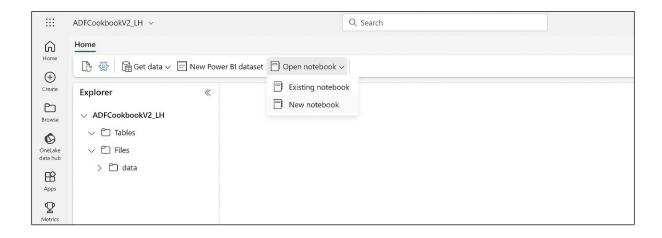














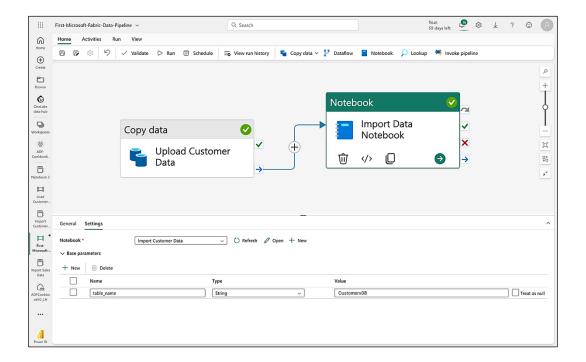
```
1 # Welcome to your new notebook
2 # Type here in the cell editor to add code!
3

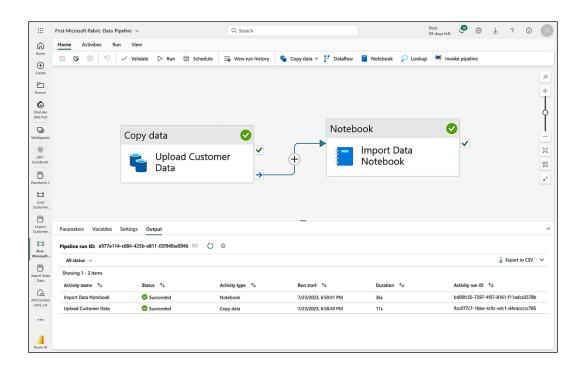
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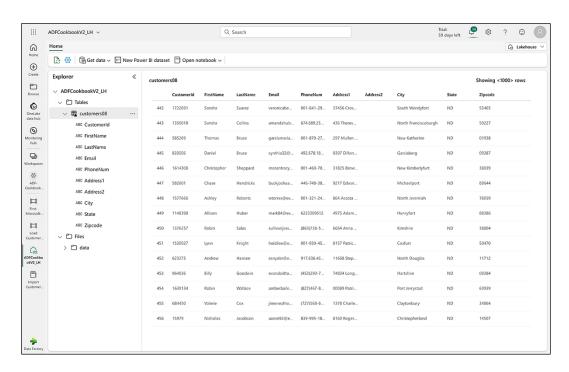
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2 # Type here in the cell editor to add code!
3 table_name = "Customers"

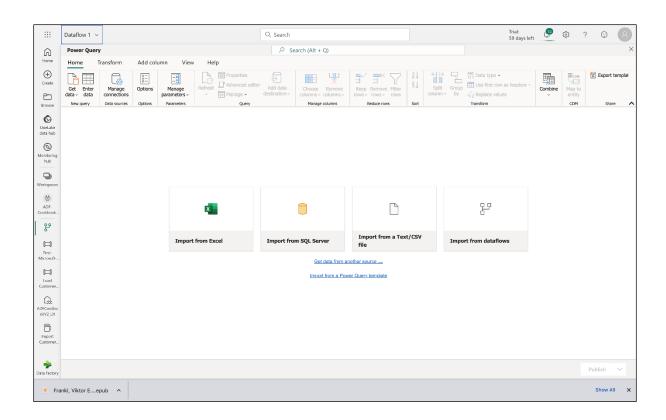
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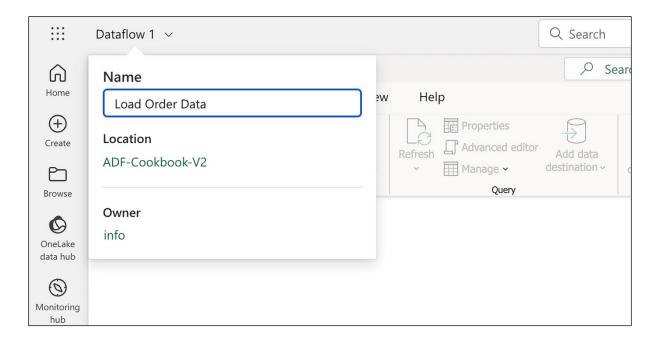
+ Code + Markdown
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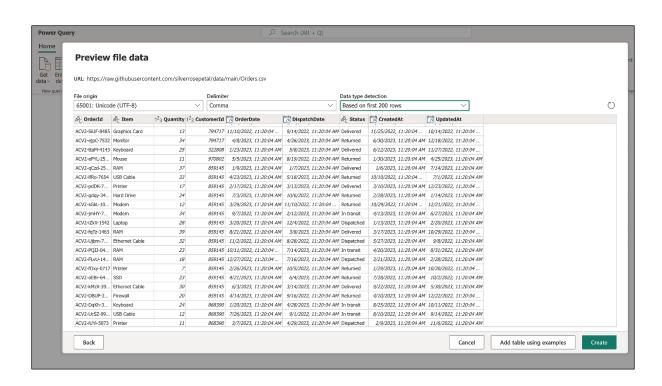


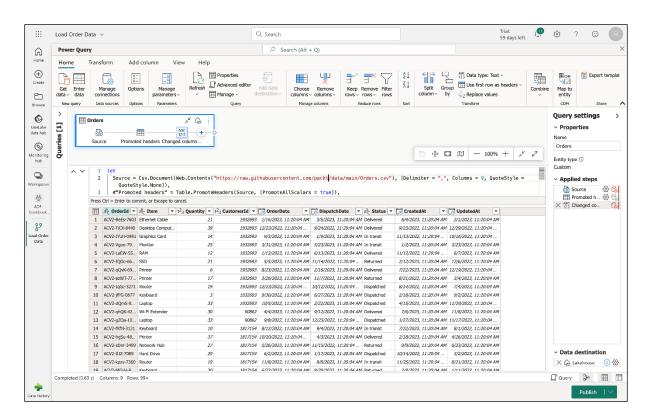


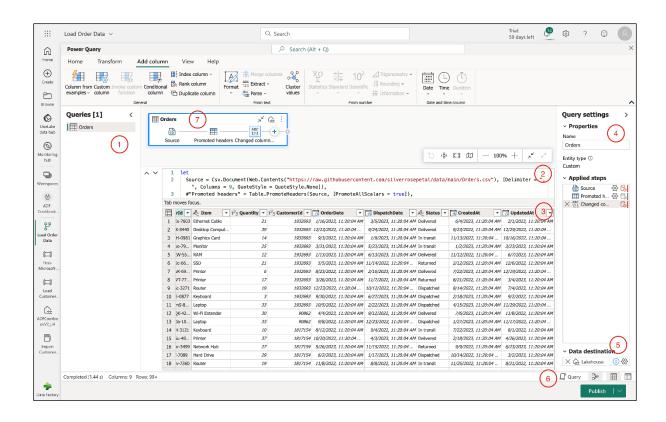


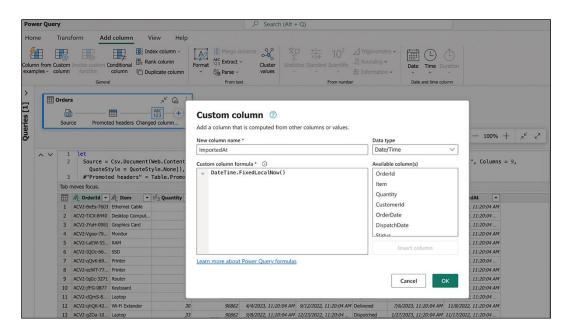




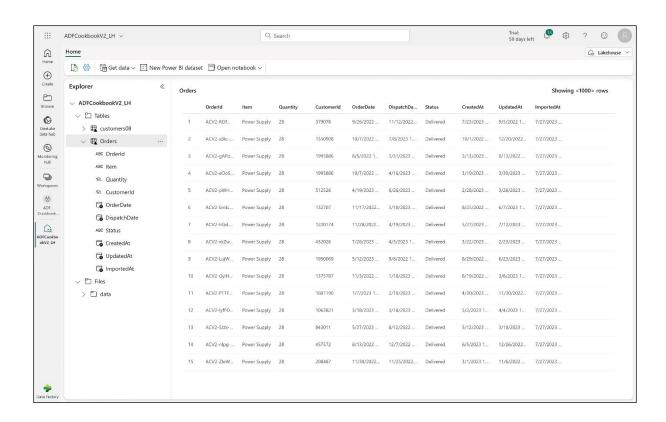


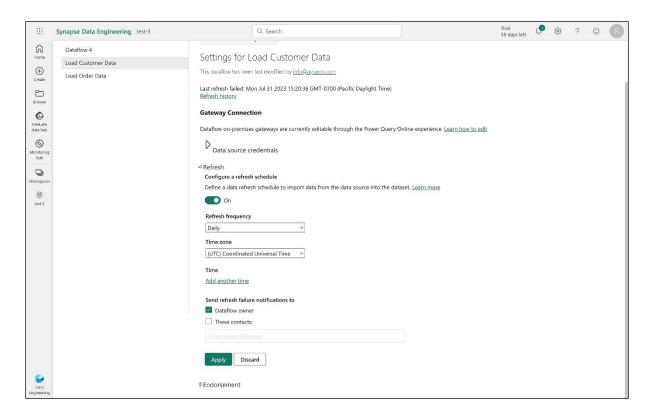


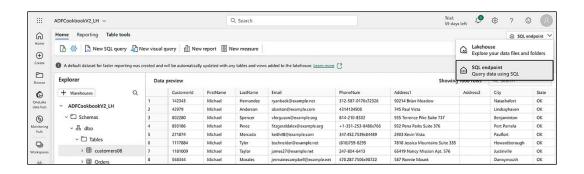


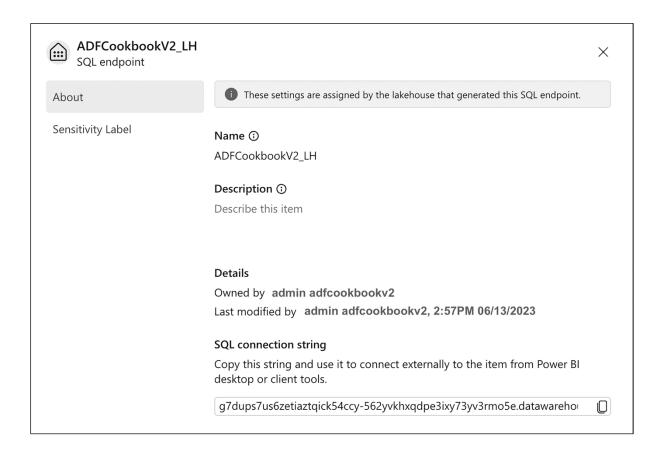


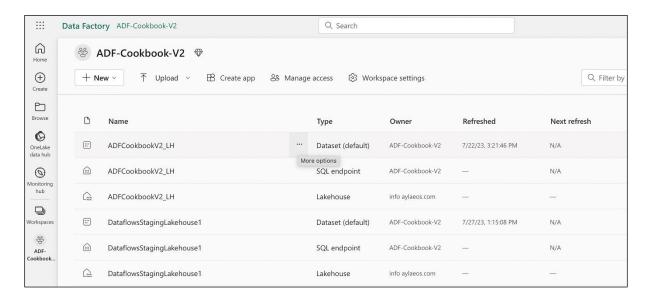


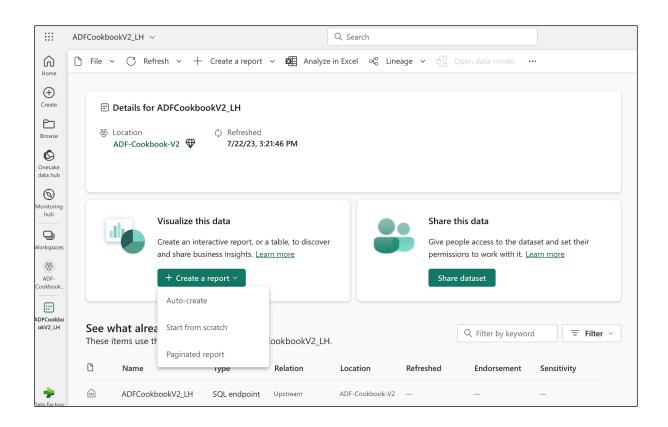




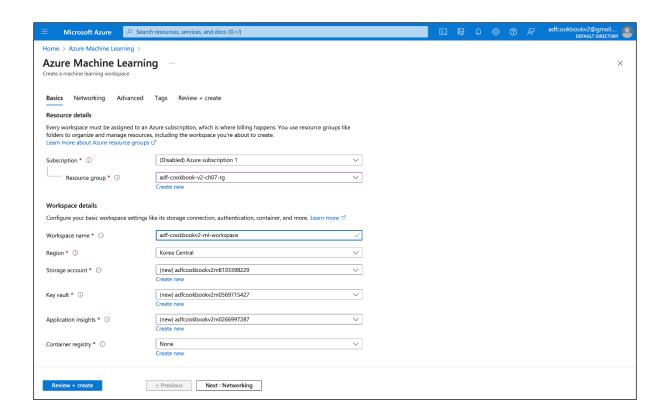


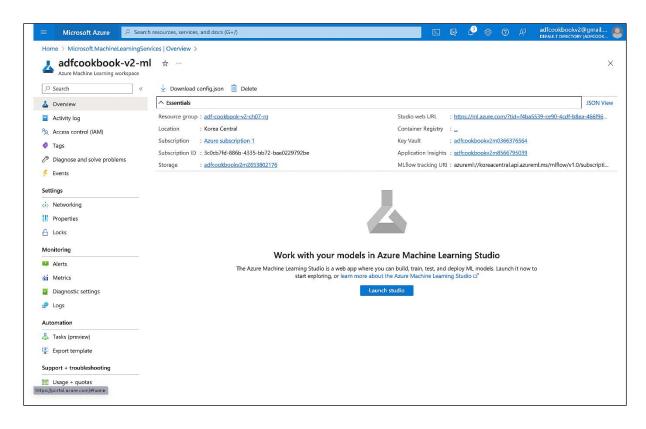


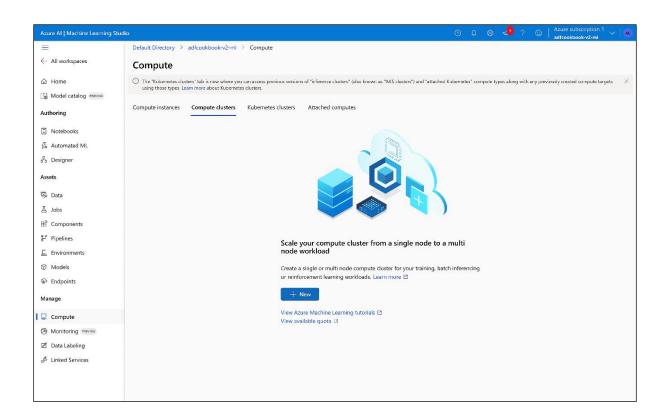


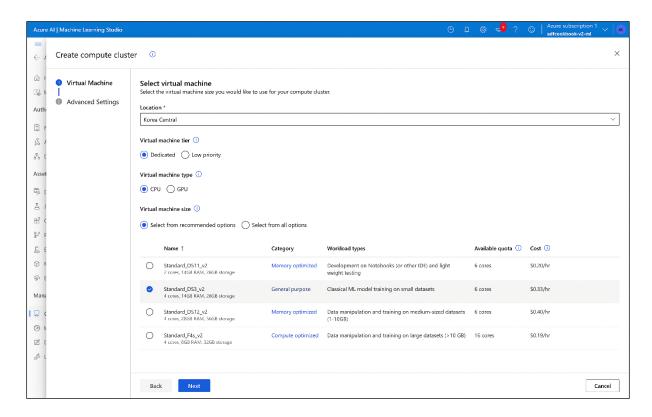


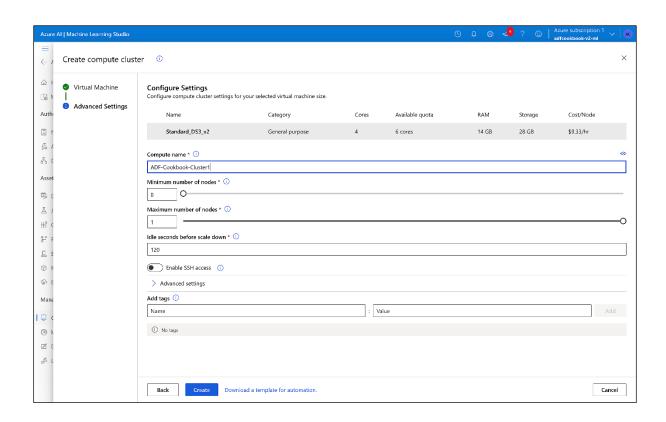


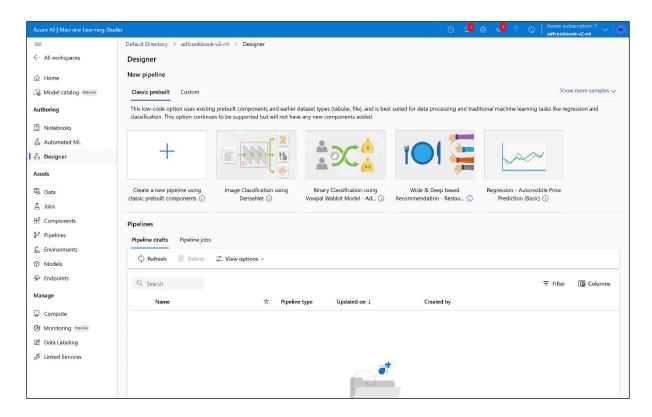


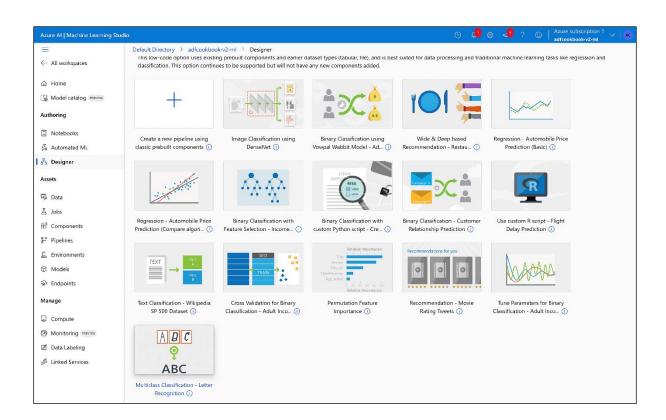


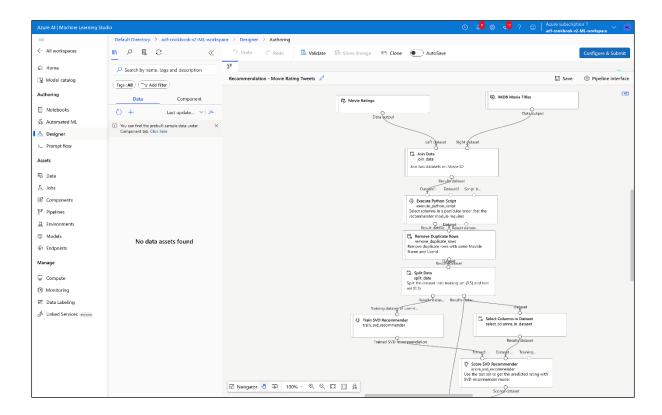


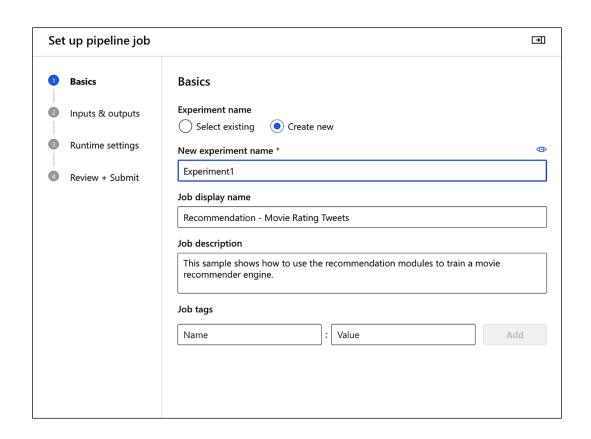


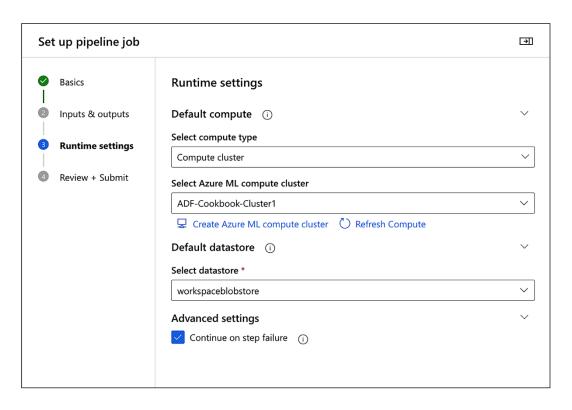


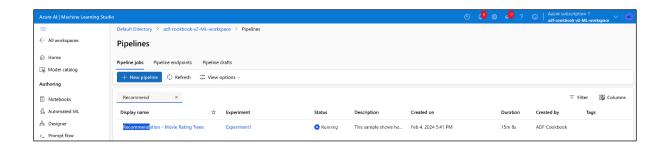


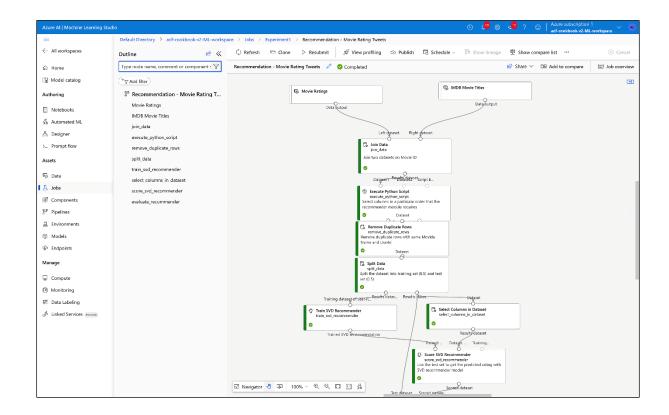


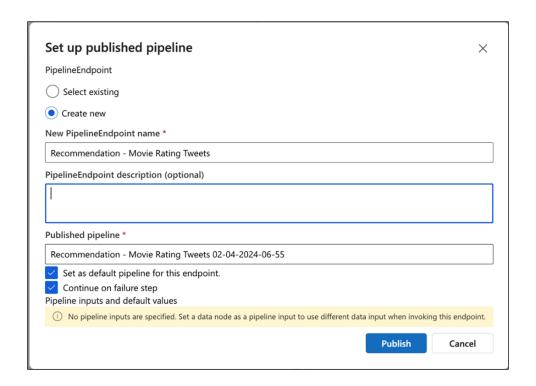


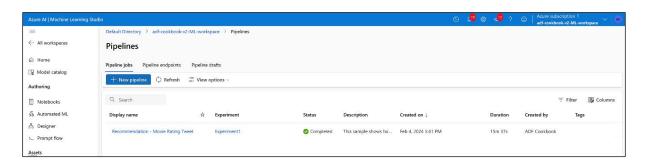


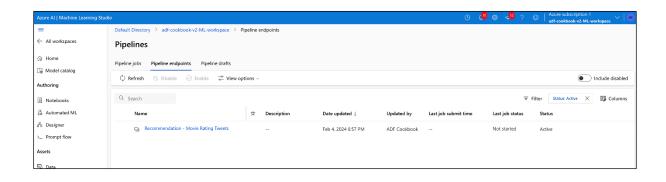












Pipeline endpoint overview



Overview

Settings

Properties

Status

Active

REST endpoint

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workspace/PipelineRuns/PipelineEnd pointSubmit/Id/58934cb0-663a-45c9-9640-864d99ee99ef

REST endpoint documentation

https://southindia.api.azureml.ms/pip elines/swagger/pipelineendpointsub mit/swagger.json

Published by

ADF Cookbook

Date published Feb 4, 2024 6:57 PM

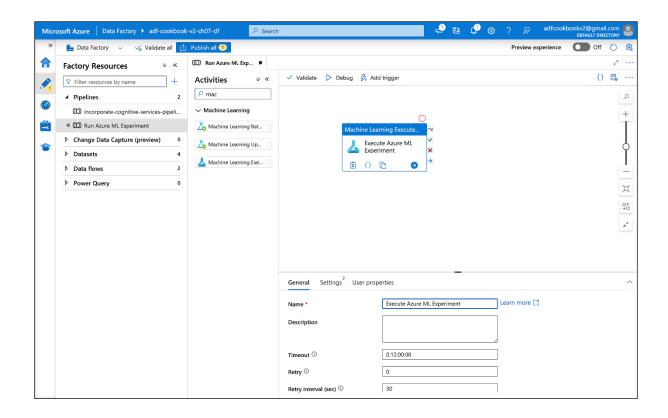
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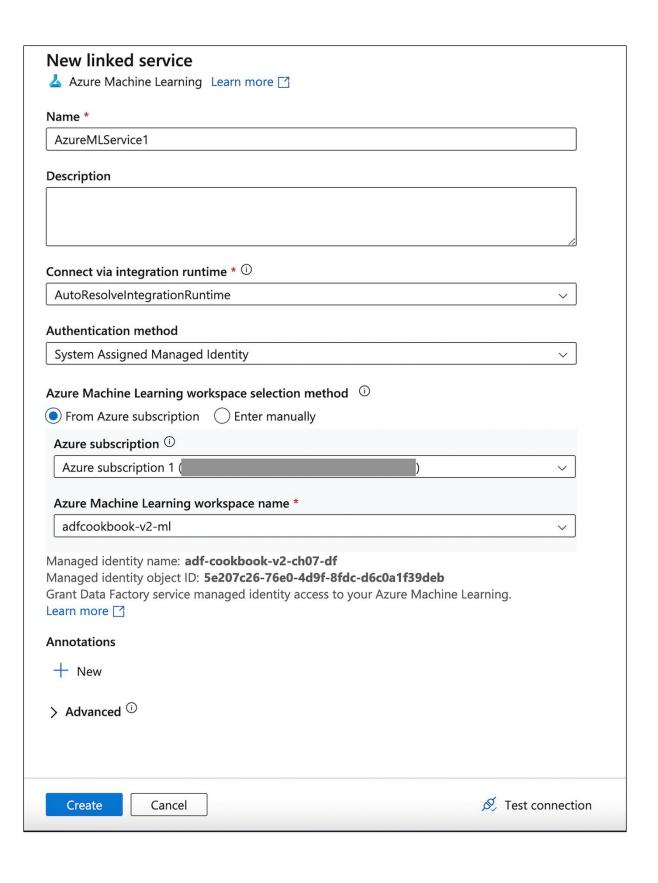
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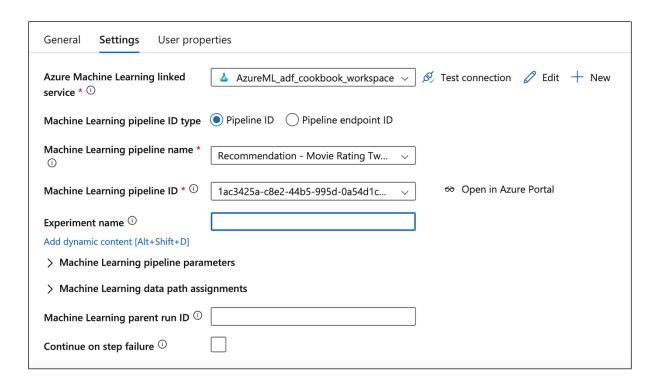
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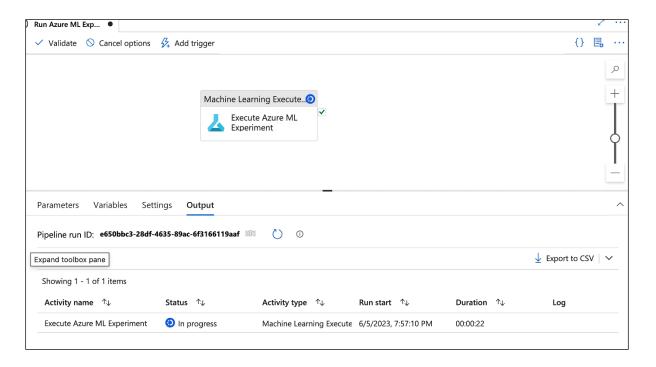
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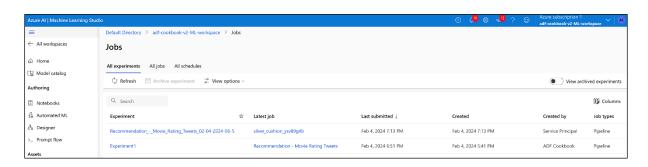
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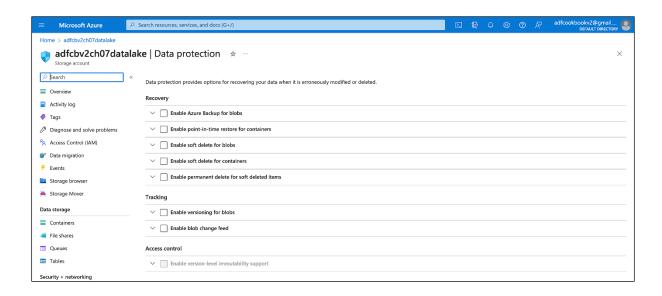


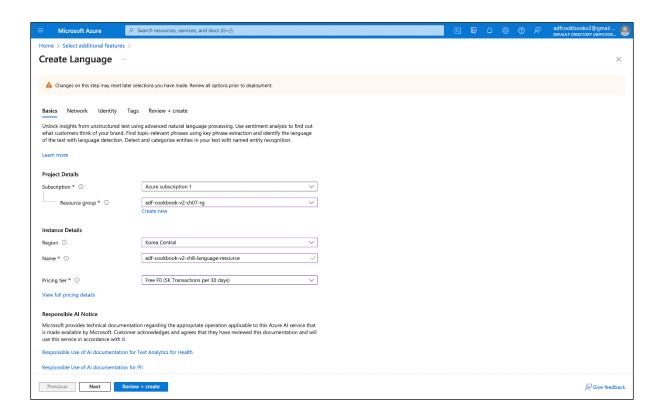


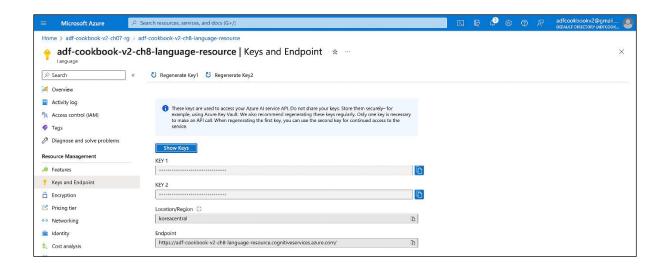


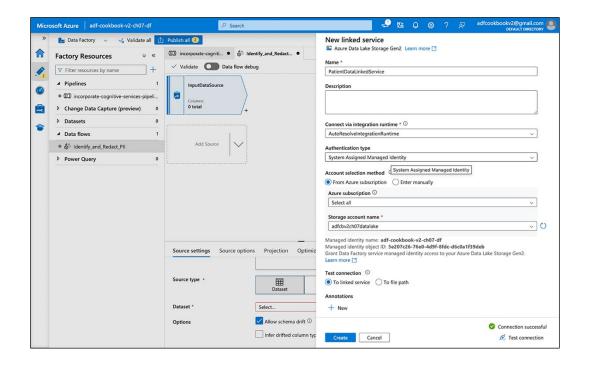


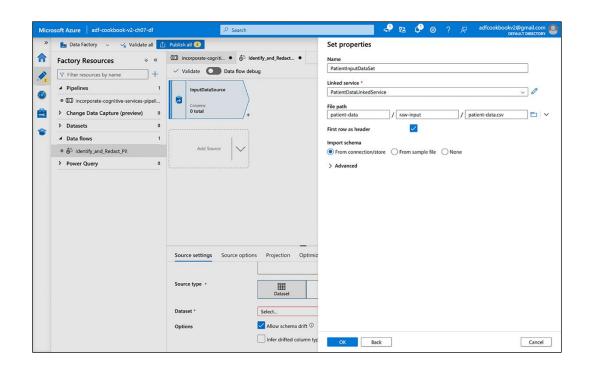


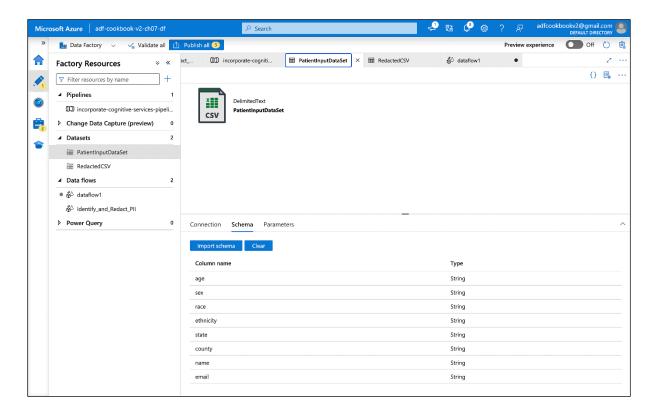


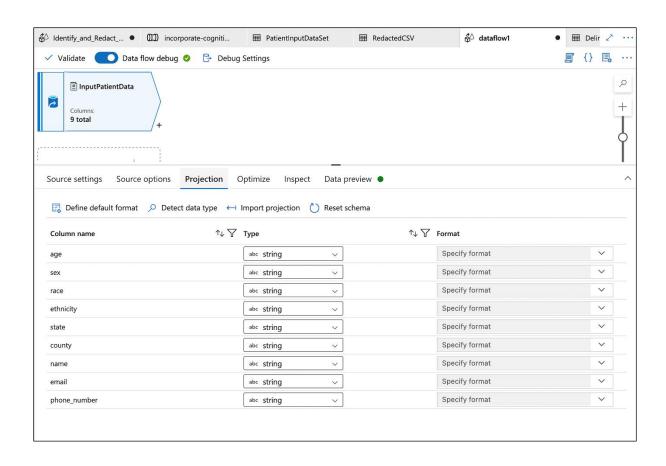


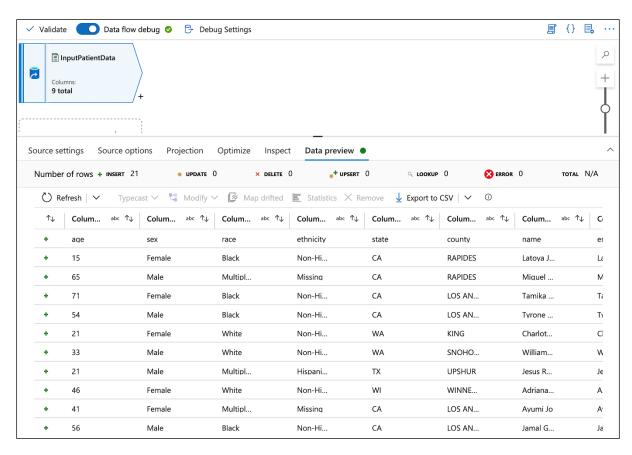


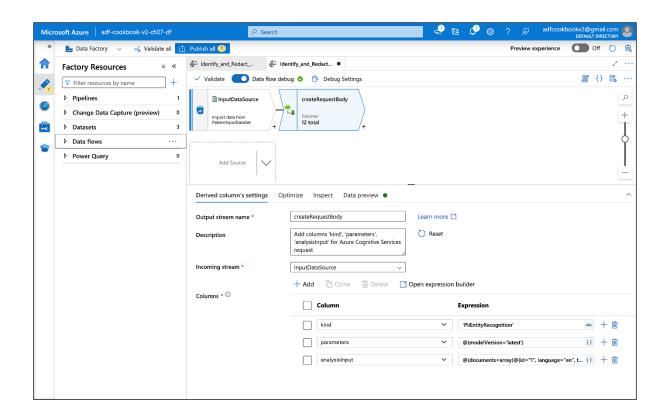


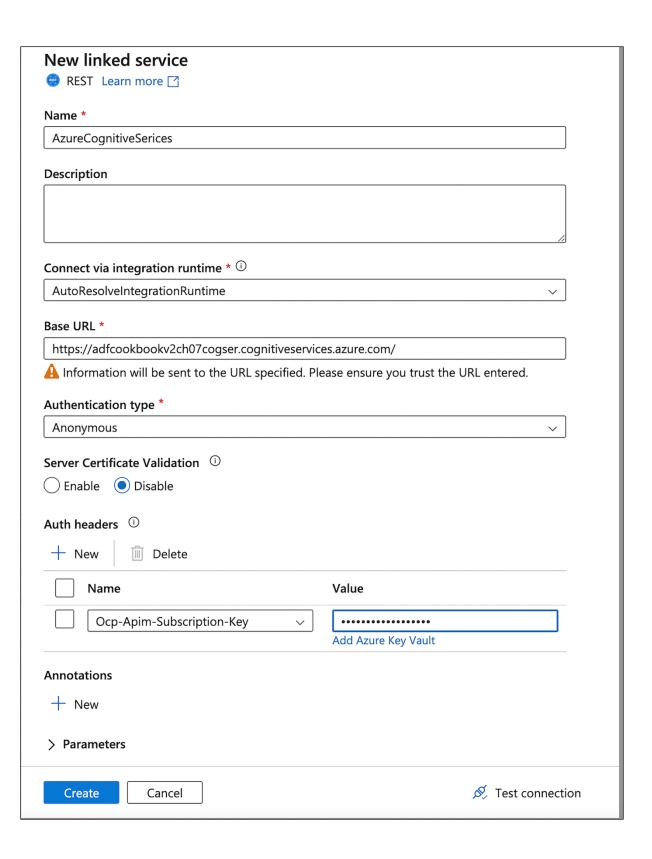


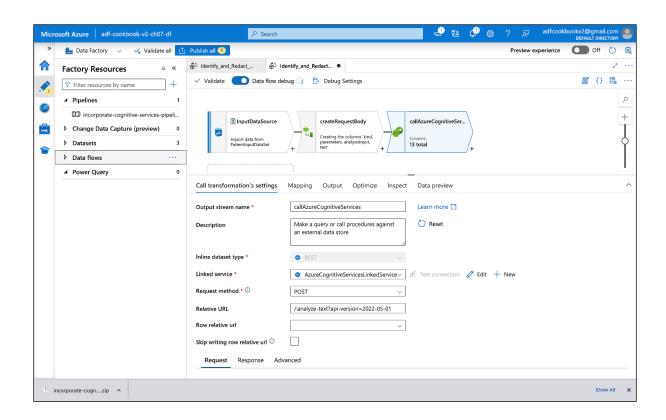


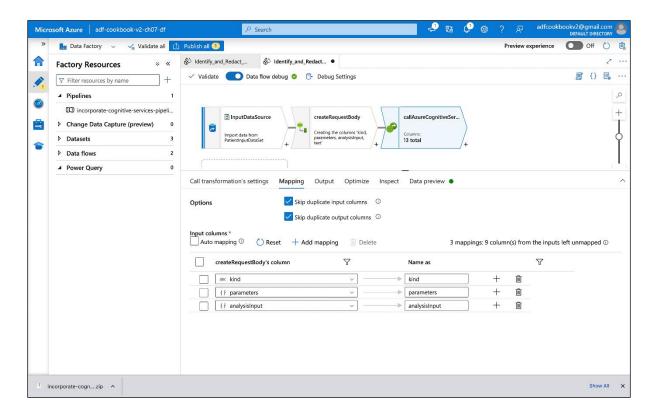


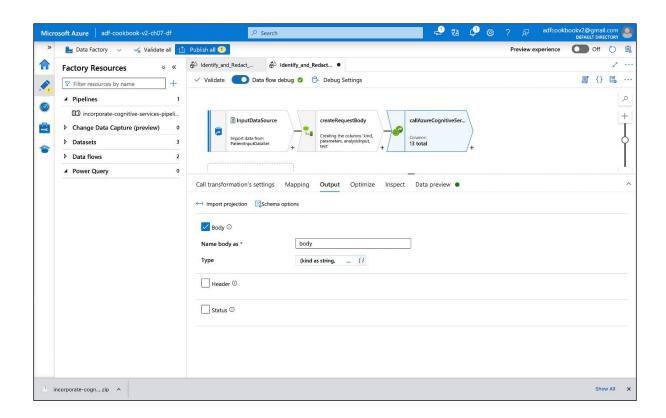


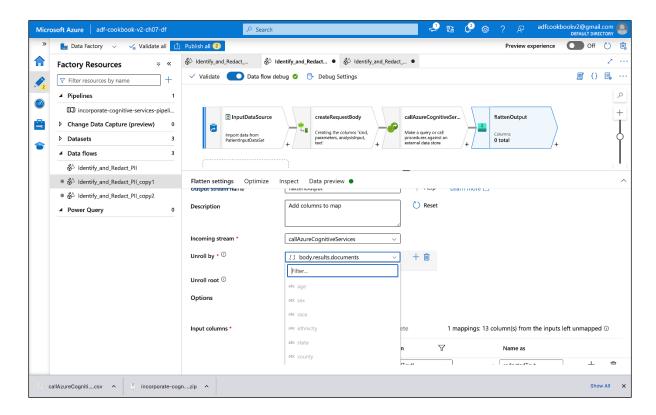


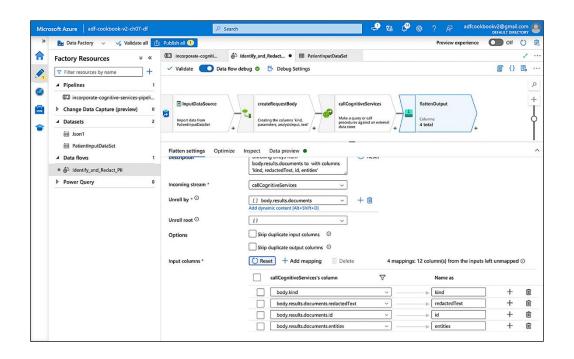


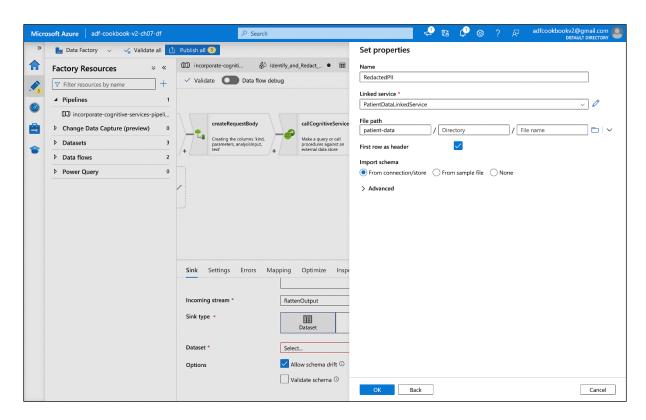


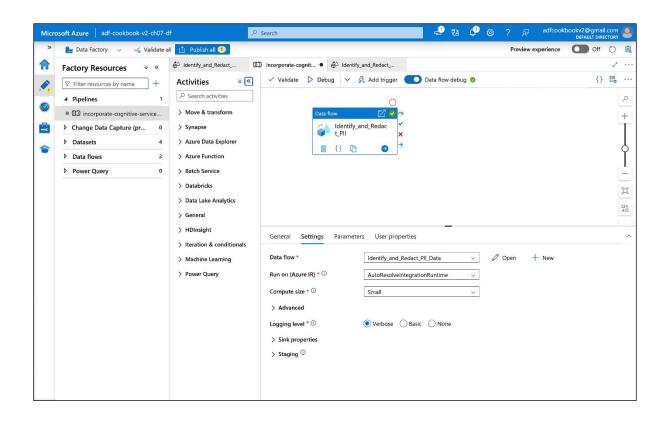


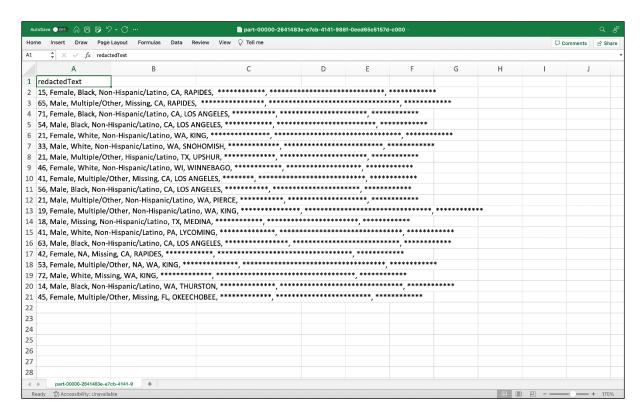




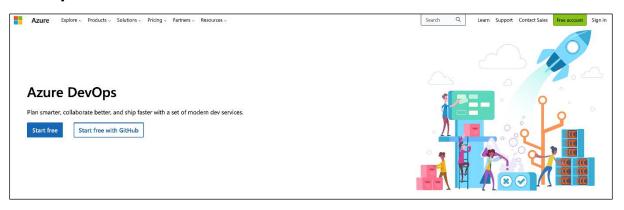


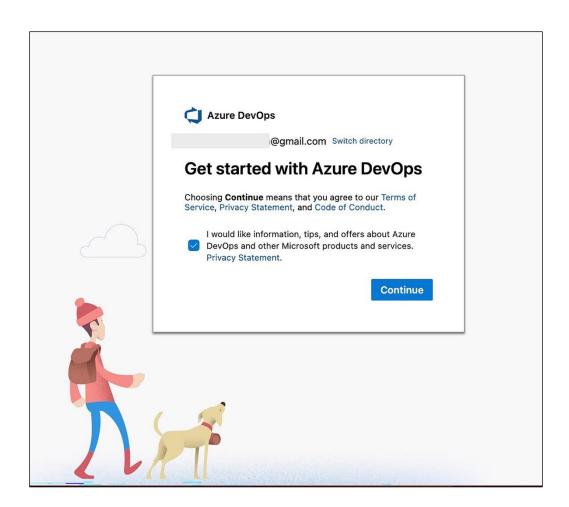


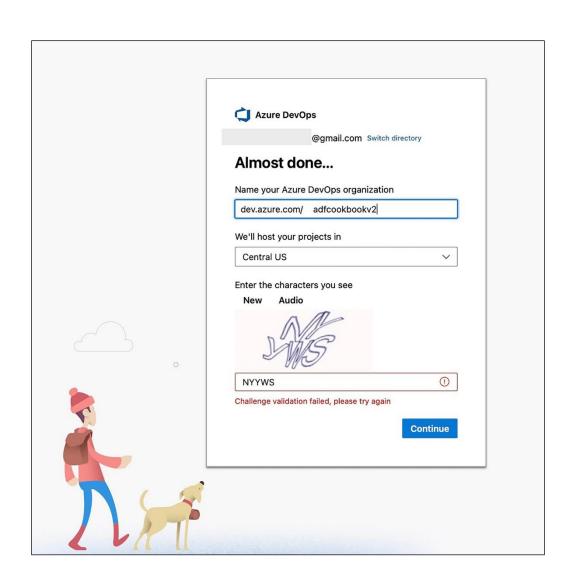


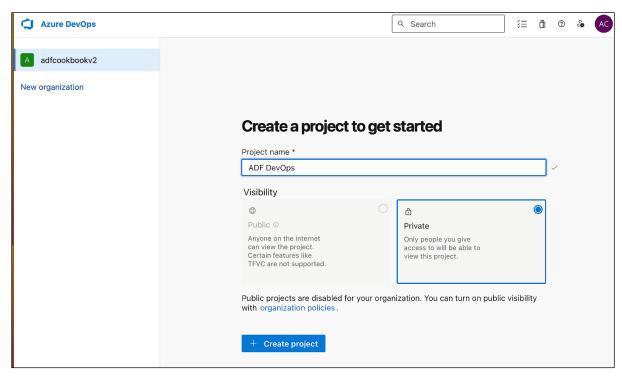


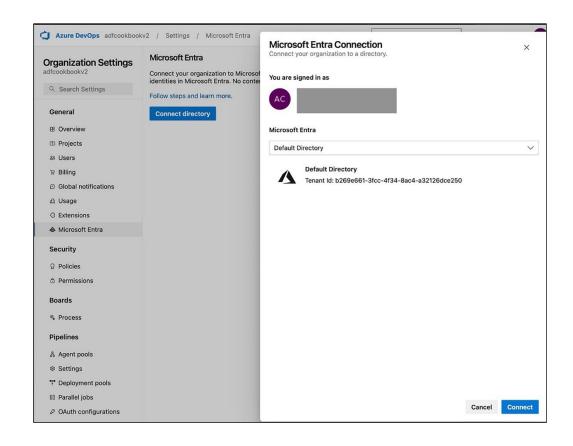
Chapter 9: Managing Deployment Processes with Azure DevOps

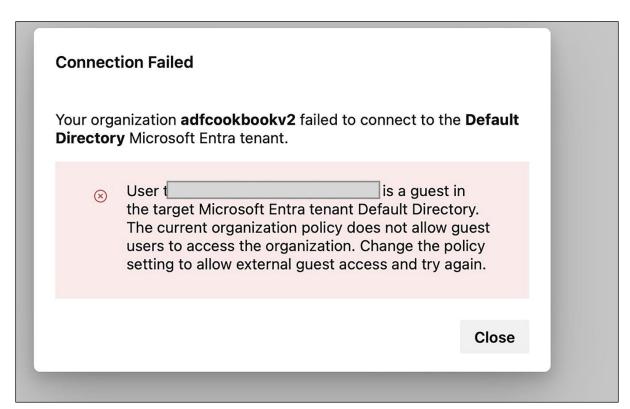


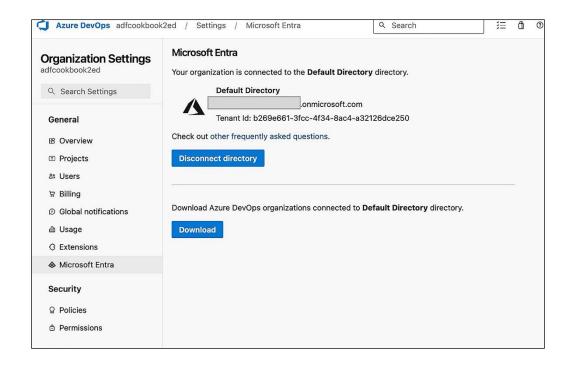


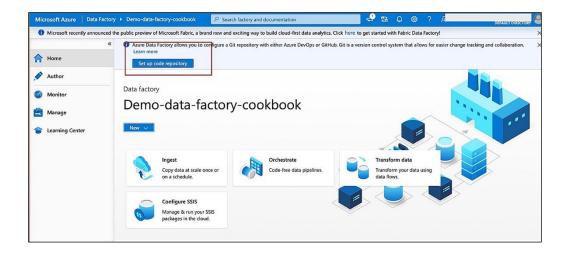


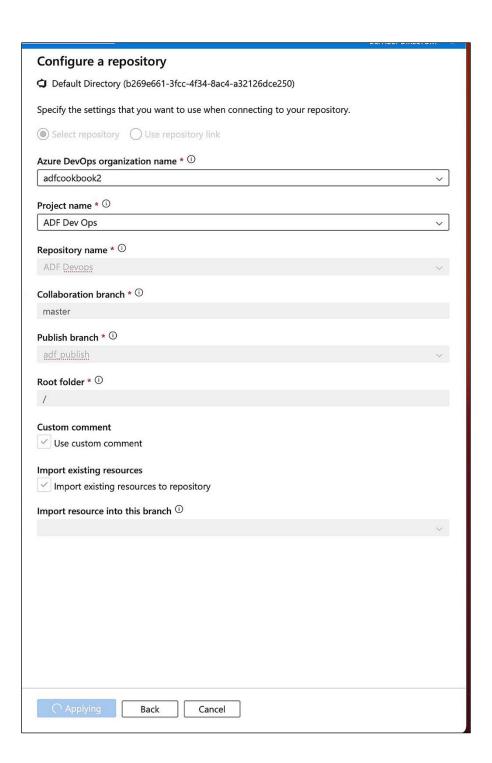


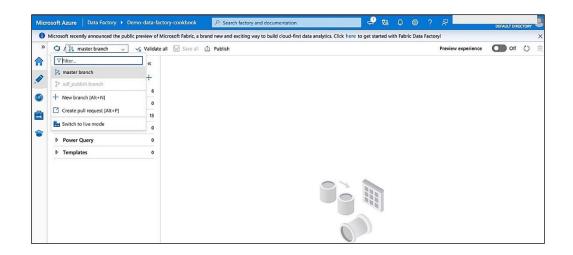


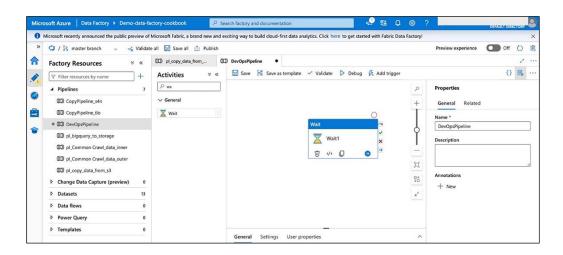


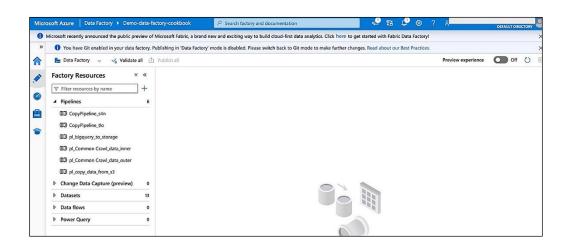


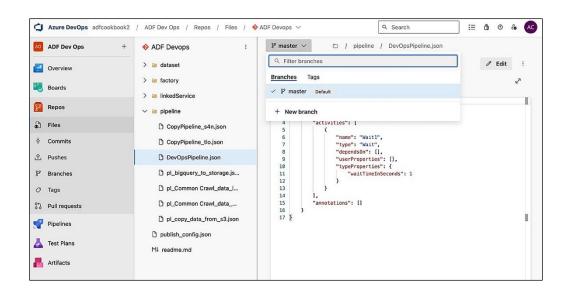


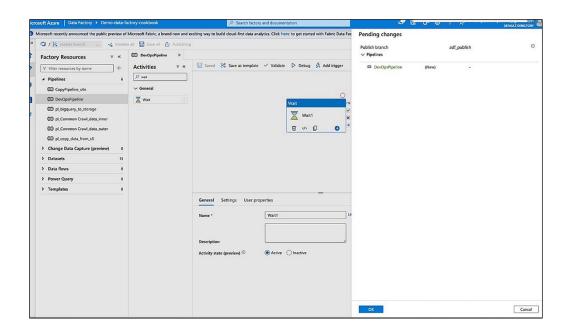


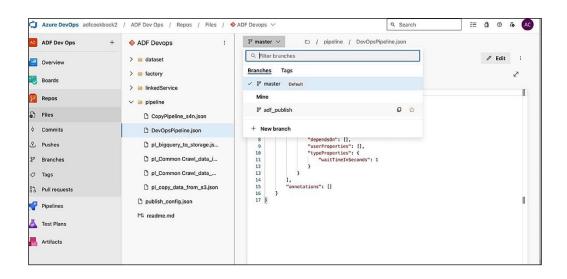


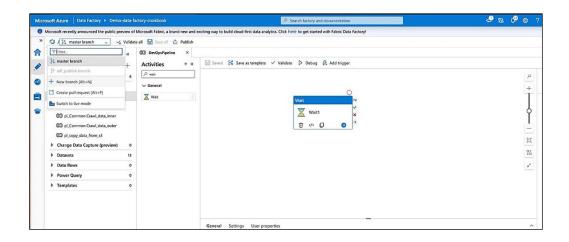


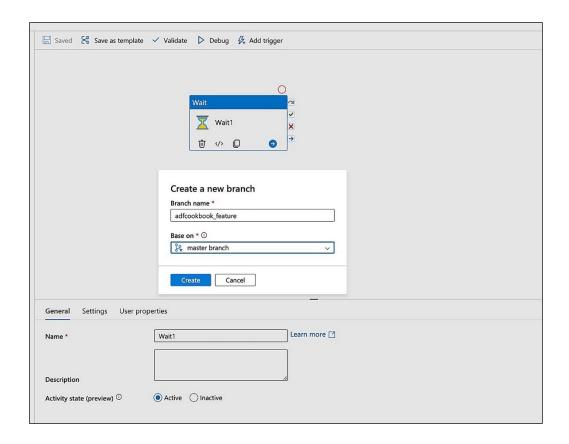


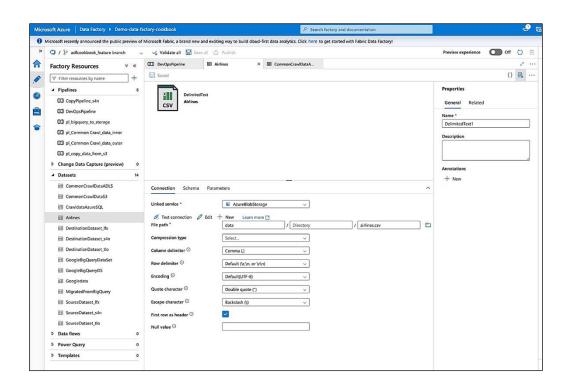


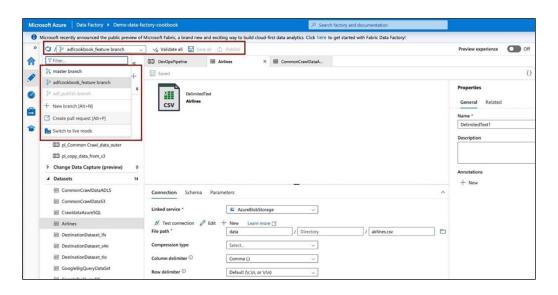


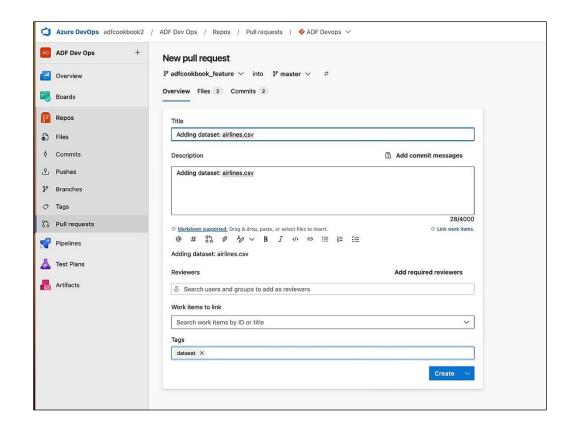


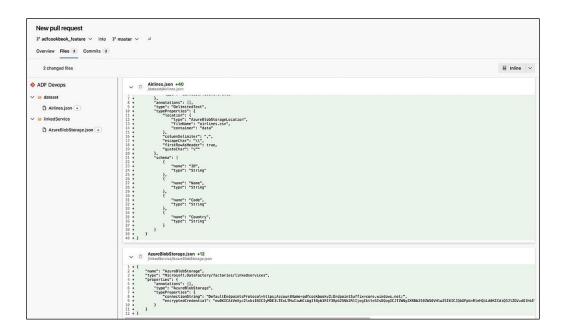


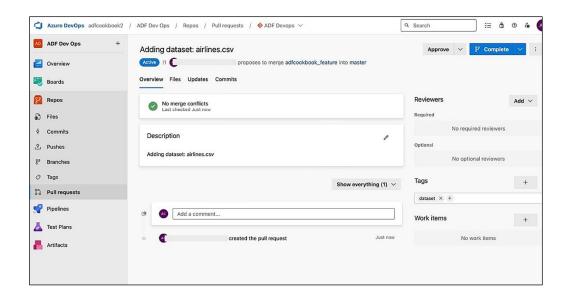


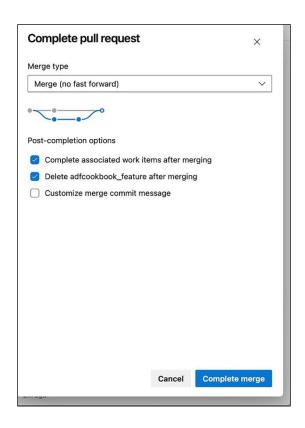


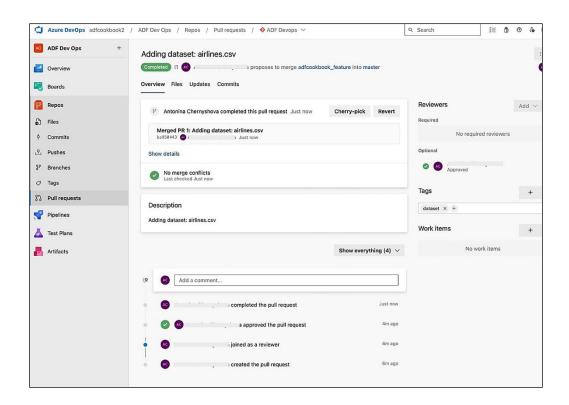


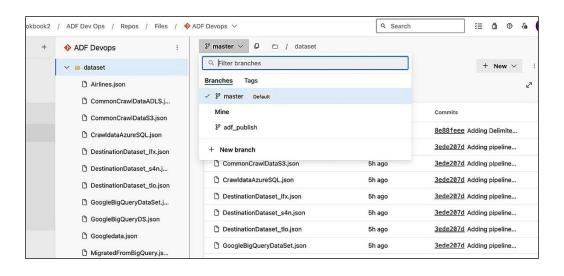


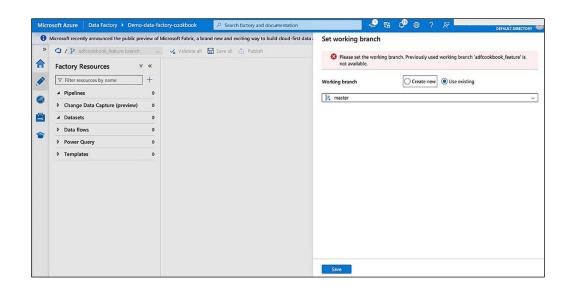


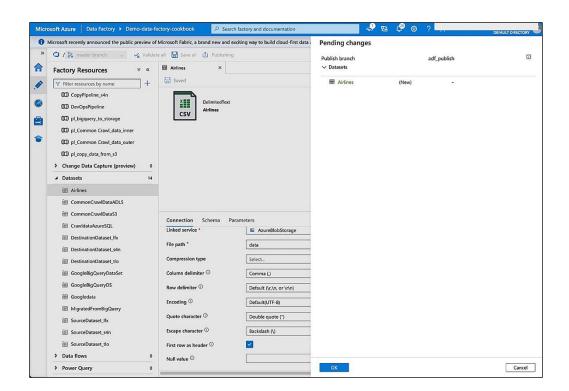


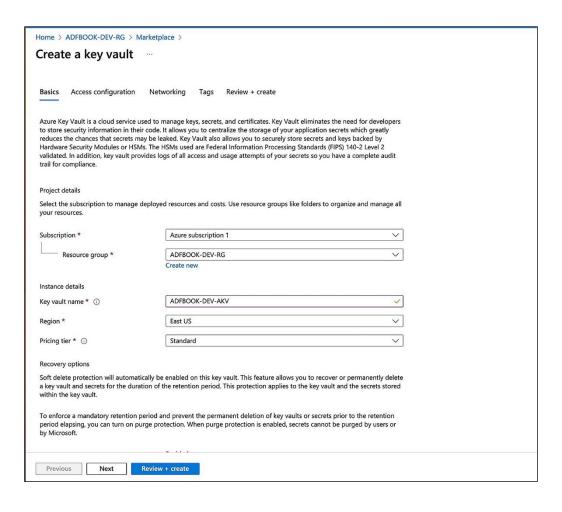


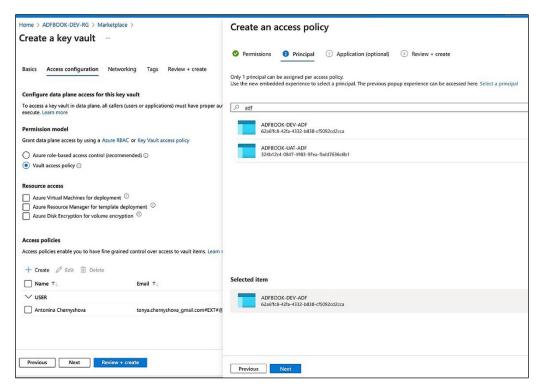


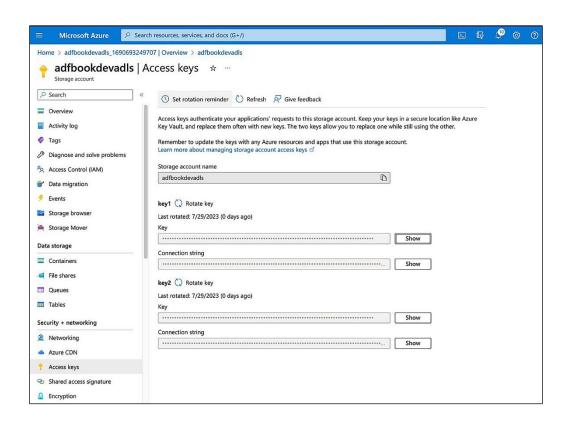


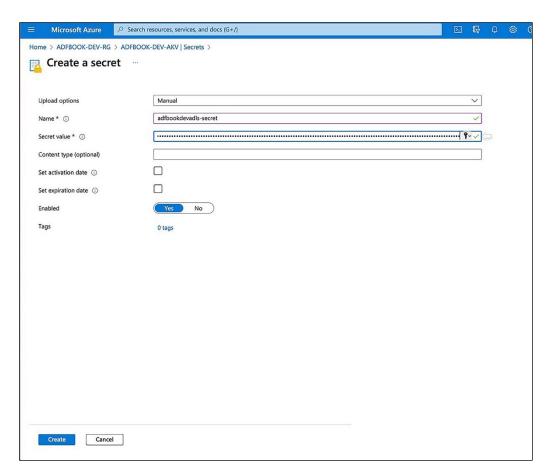


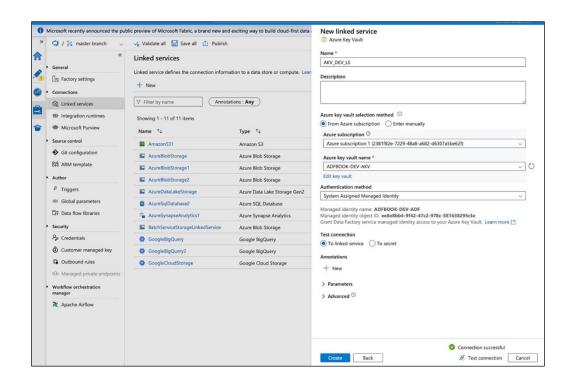


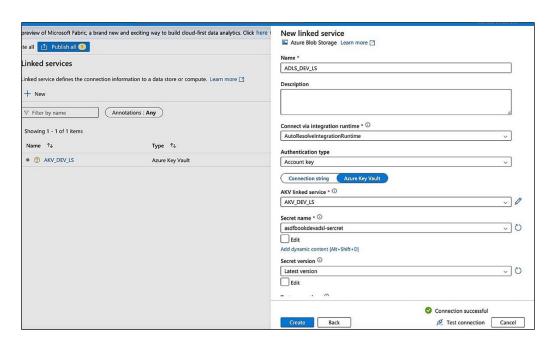


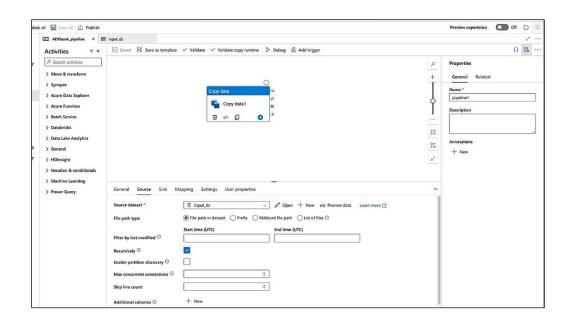


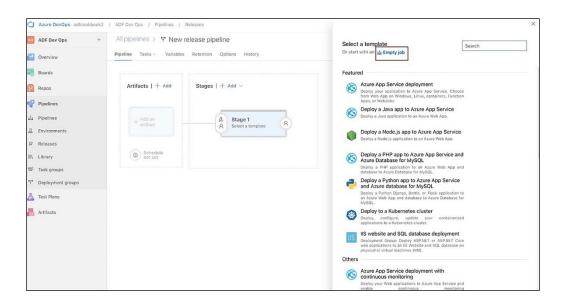


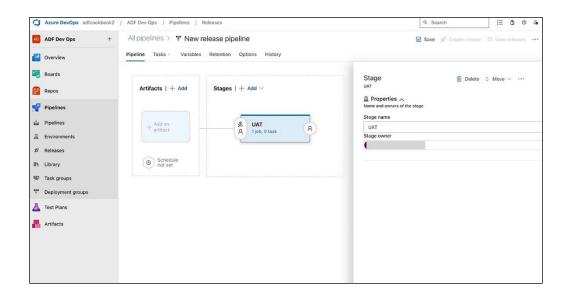


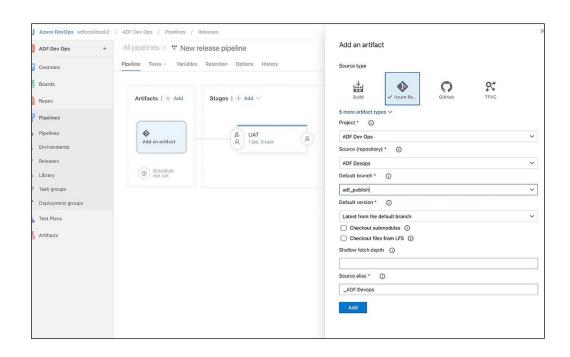


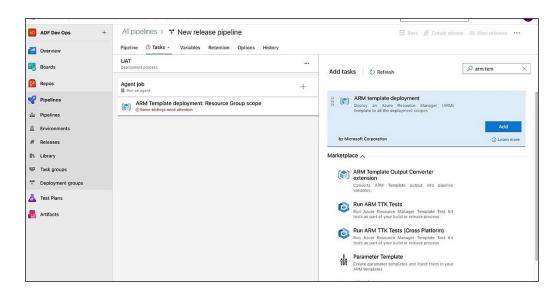


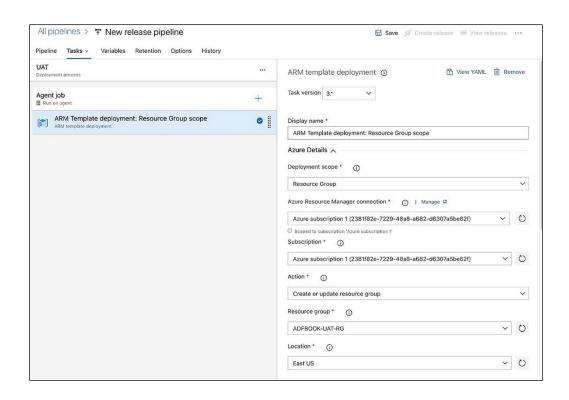


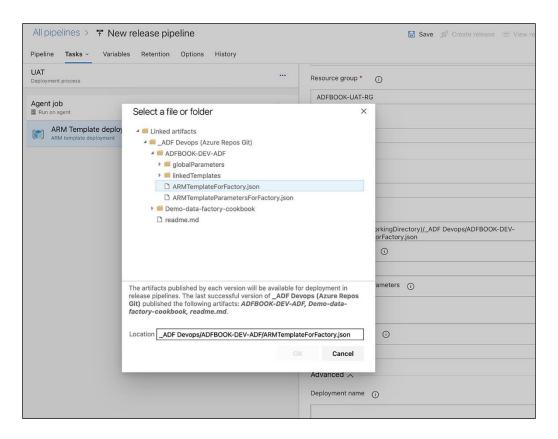


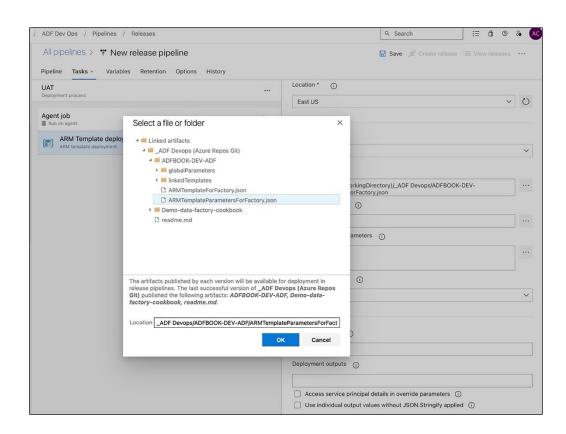


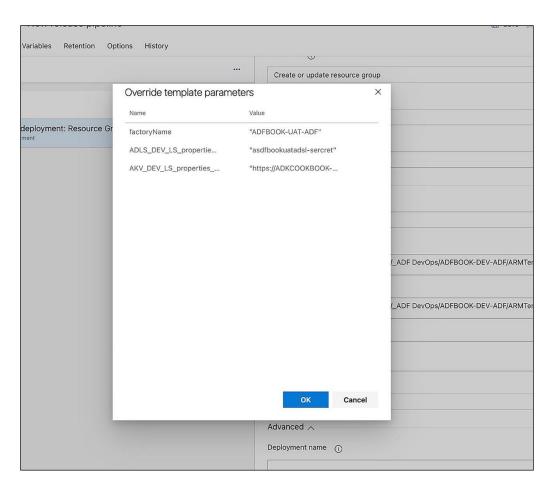


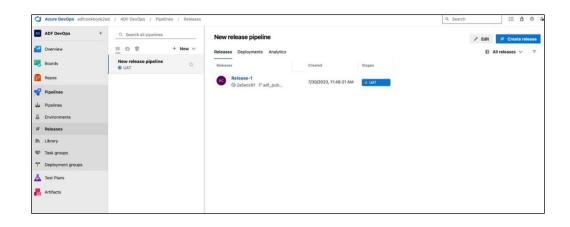


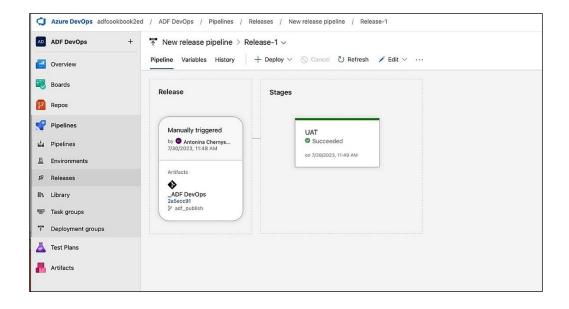


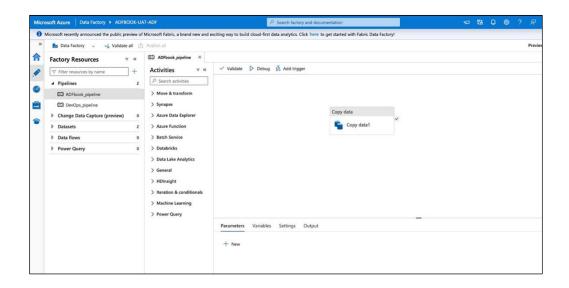


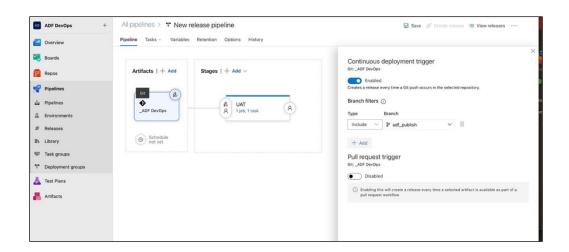


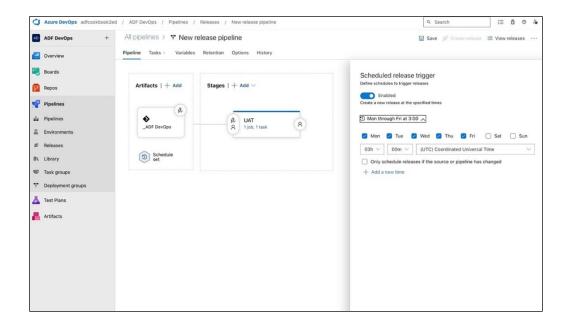


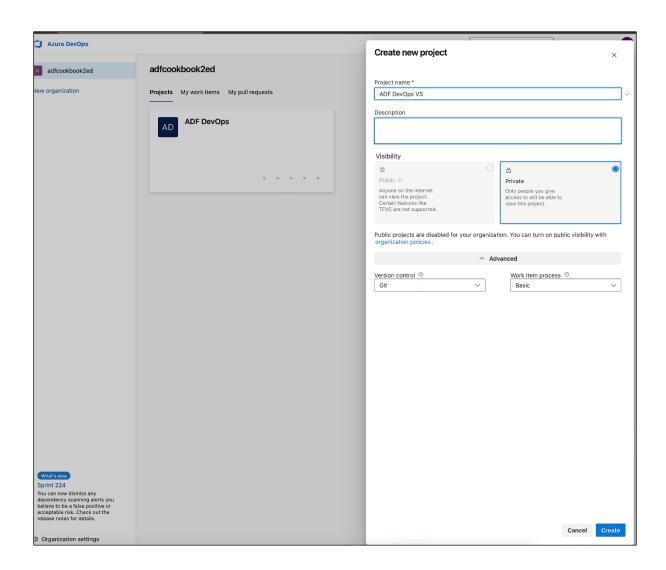


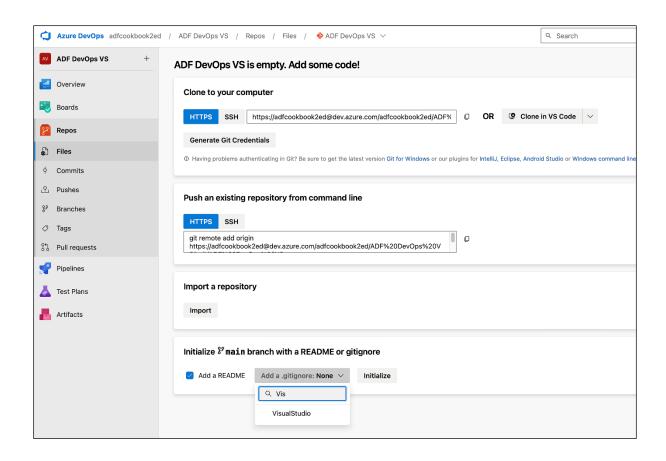


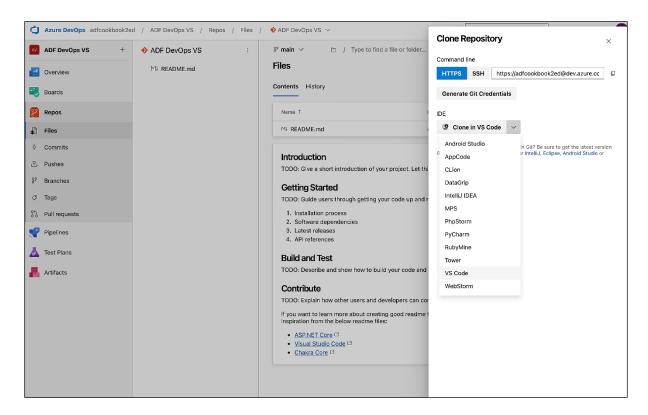


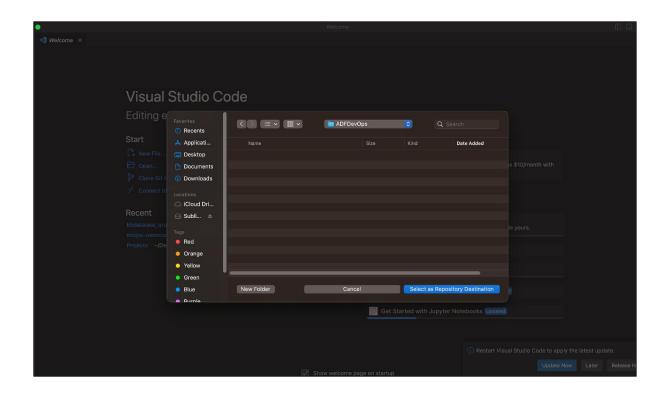


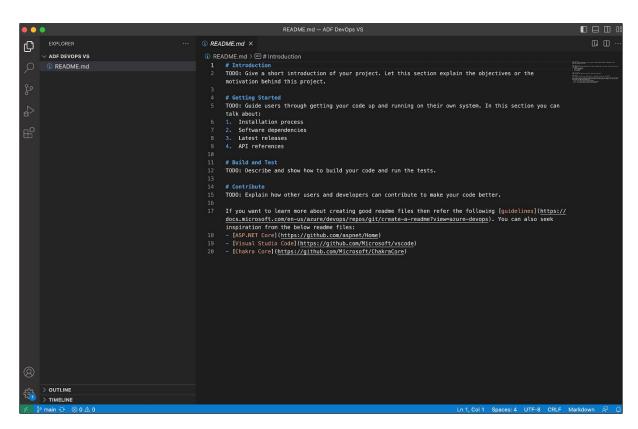








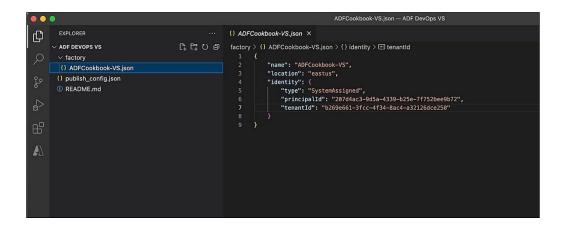




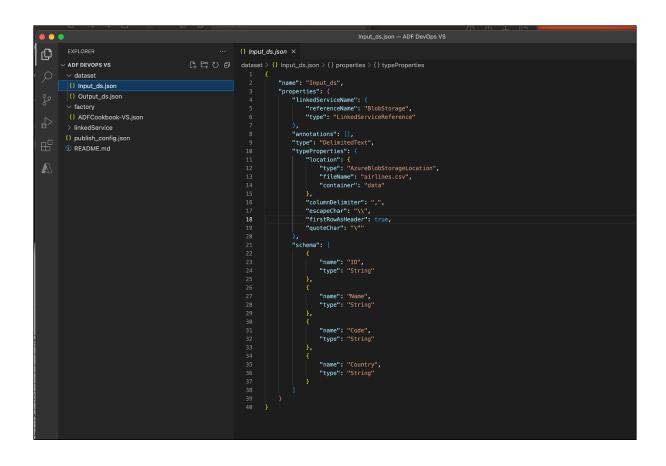
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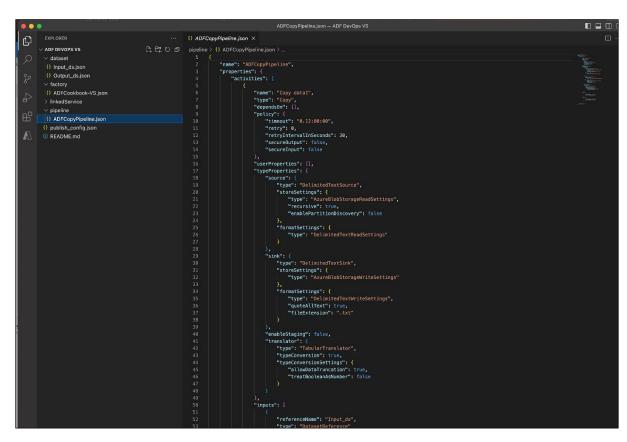
A web browser has been opened at https://login.microsoftonline.com/organizations/oauth2/v2.0/authorize. Please continue the login in the web browser. If no web b rowser is available or if the web browser falls to open, use device code flow with "az login —use-device-code".

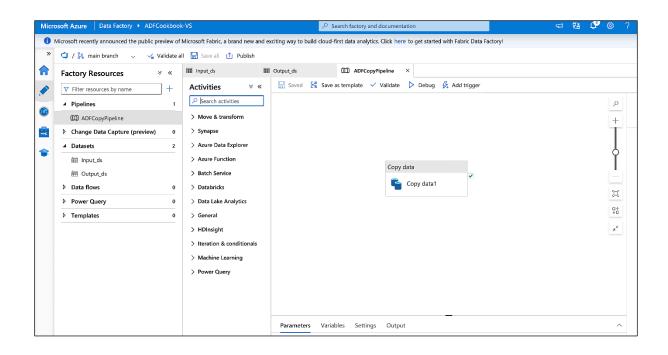
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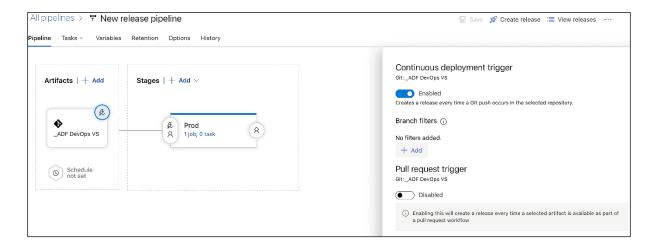


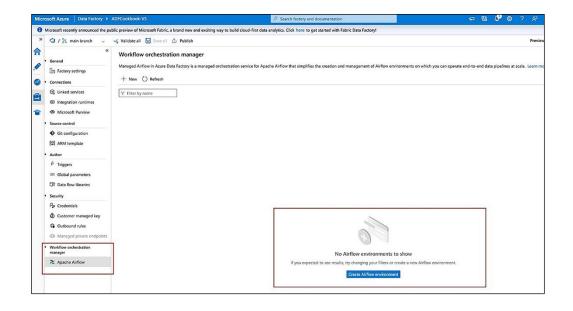


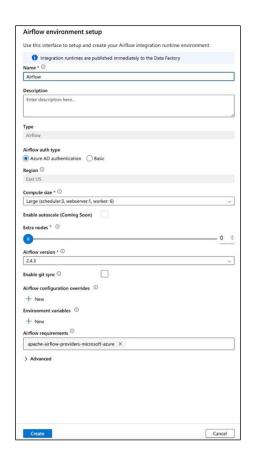


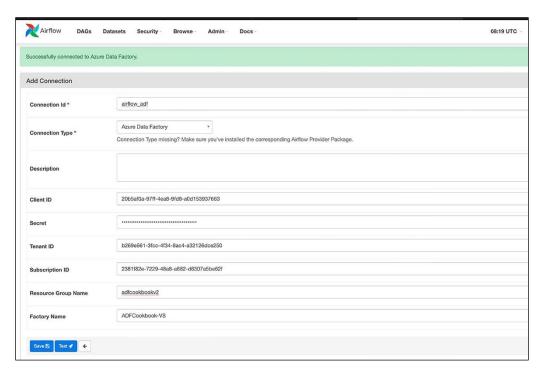


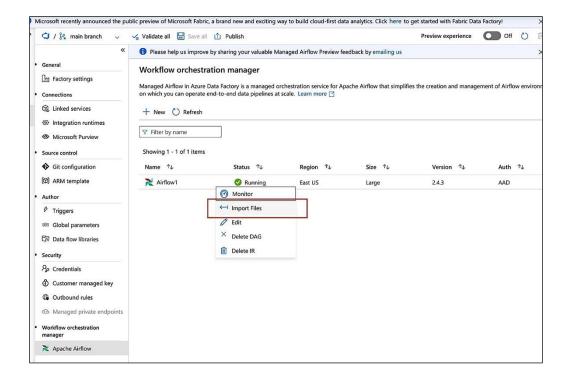


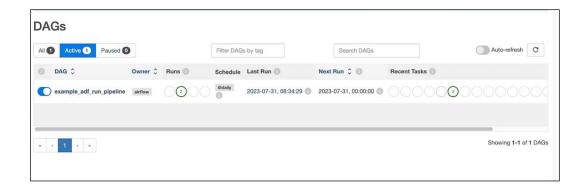




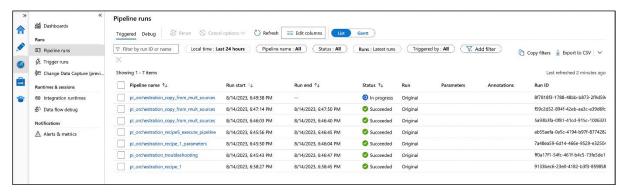


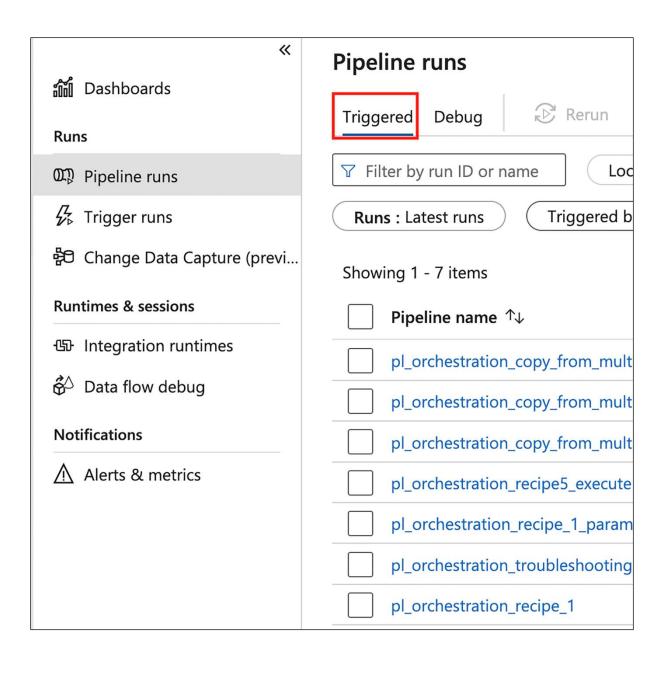


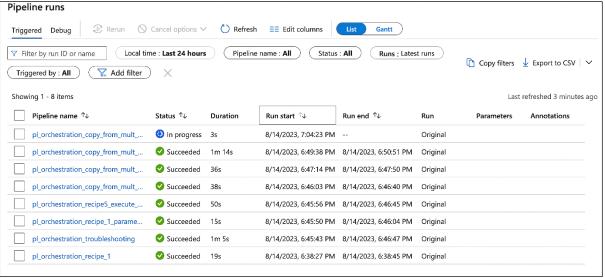




Chapter 10: Monitoring and Troubleshooting Data Pipelines



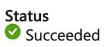




Pipeline name ↑↓	Status ↑↓	Duration	Run start ↑↓
pl_orchestration_copy_from_mult_sources	(i) In progress	3s	8/14/2023, 7:04:23 PM
pl_orchestration_copy_from_mult 😂 🗏	Succeeded	1m 14s	8/14/2023, 6:49:38 PM
pl_orchestration_copy_from_mult_sources	Succeeded	36s	8/14/2023, 6:47:14 PM
pl_orchestration_copy_from_mult_sources	Succeeded	38s	8/14/2023, 6:46:03 PM
pl_orchestration_recipe5_execute_pipeline	⊘ Succeeded	50s	8/14/2023, 6:45:56 PM

Pipeline run consumption

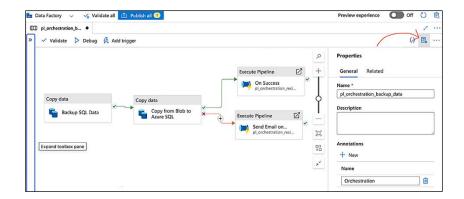
pl_orchestration_copy_from_mult_sources

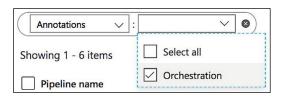


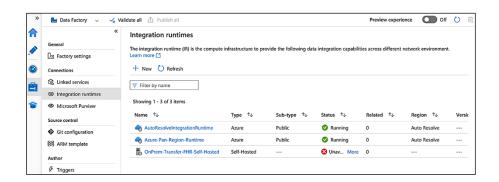
Run ID

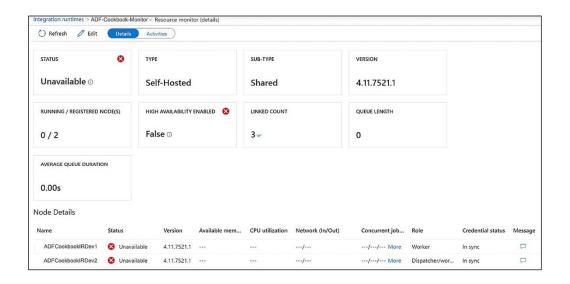
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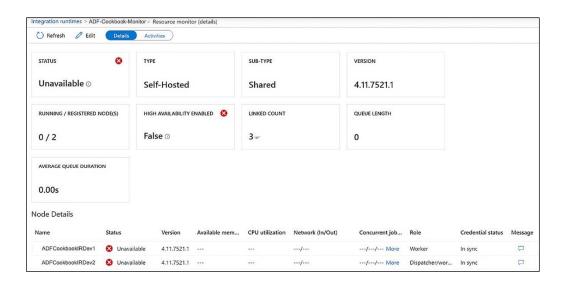
	Quantity	Unit
Pipeline orchestration		
Activity runs	2	Activity runs
Pipeline execution		
Azure integration runtime		
Data movement activities	0.0667	DIU-hour
Learn more ☐		
Pricing calculator ☐		

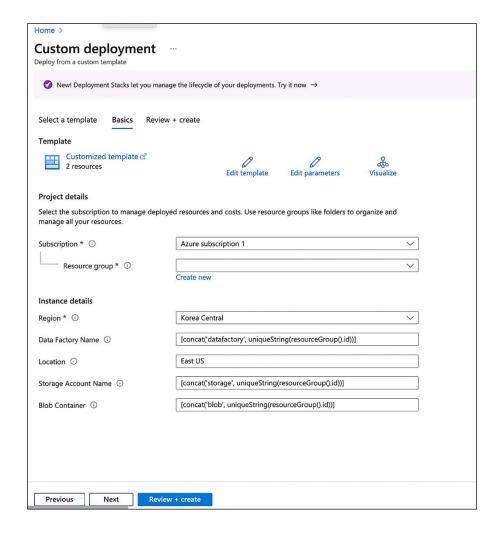


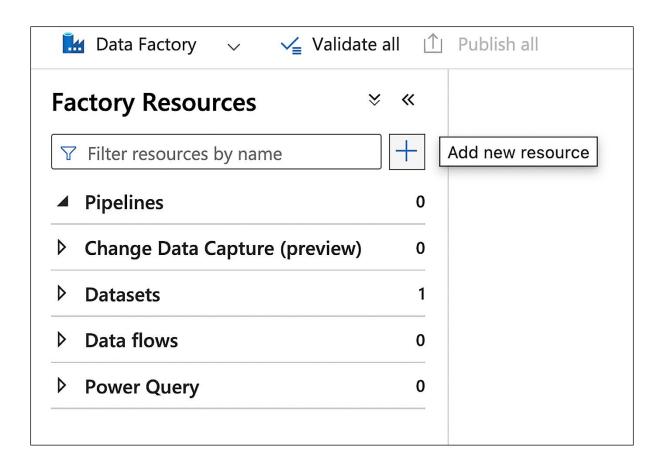


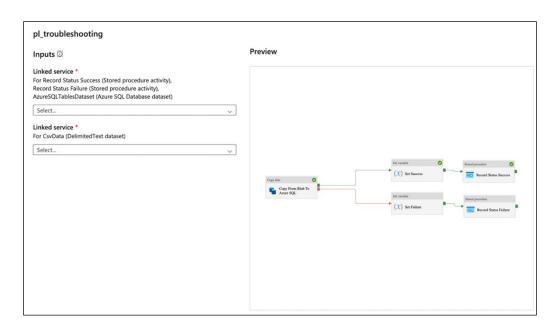


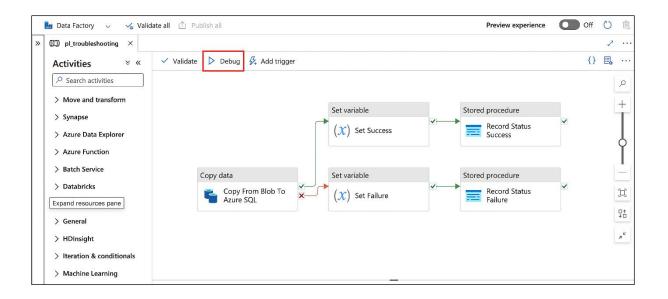


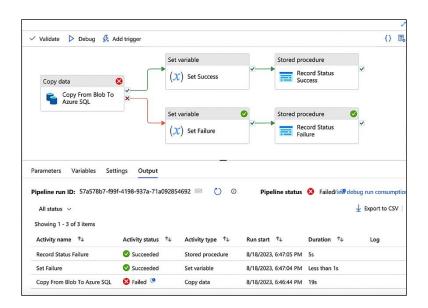


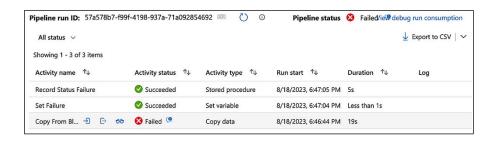


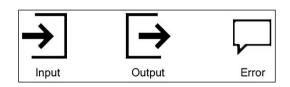


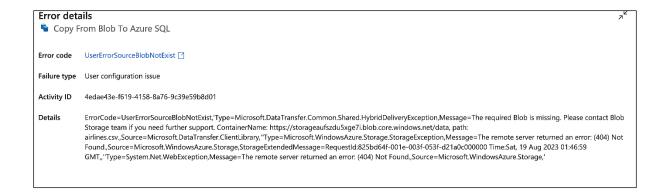


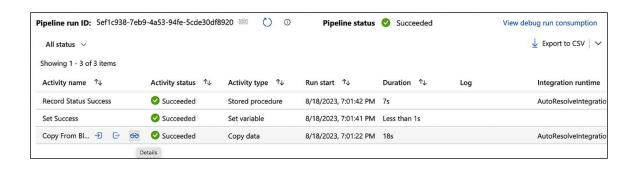


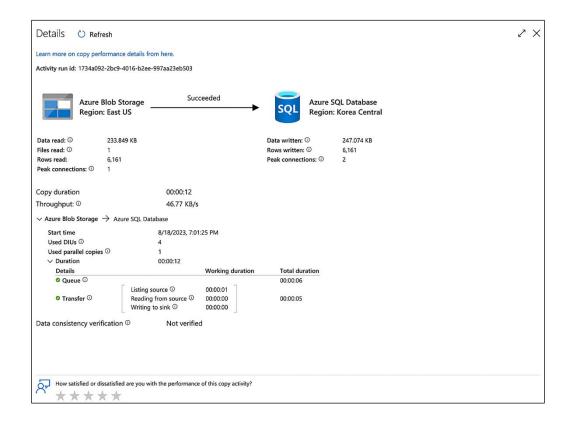


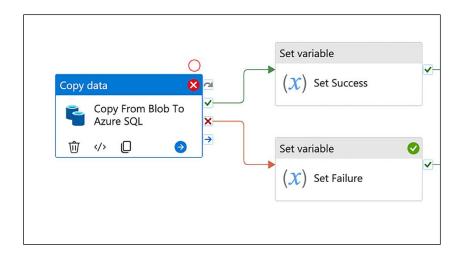


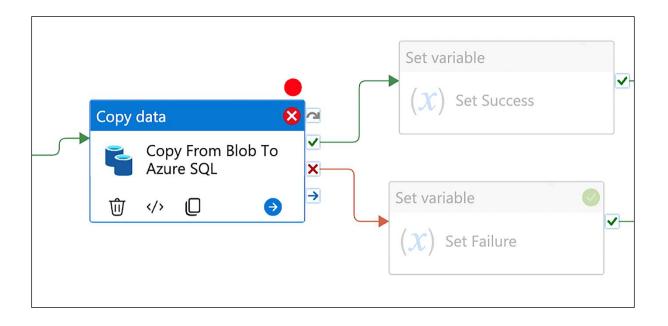


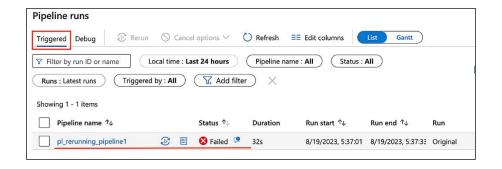


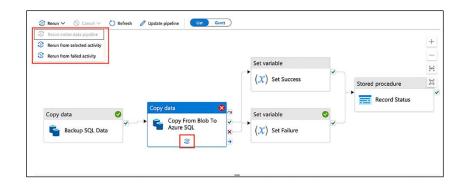


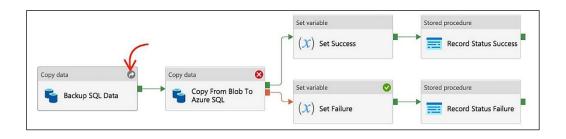


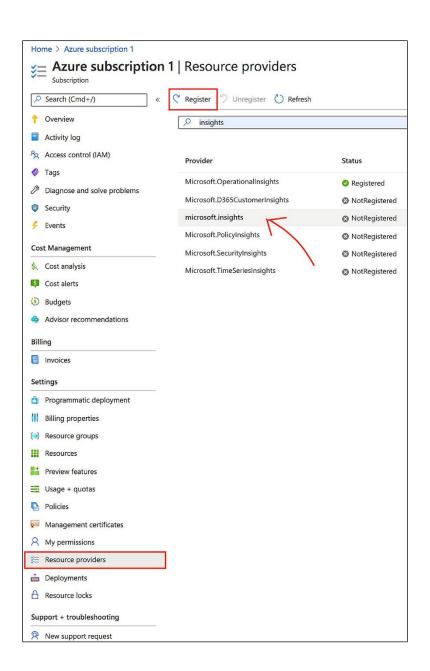


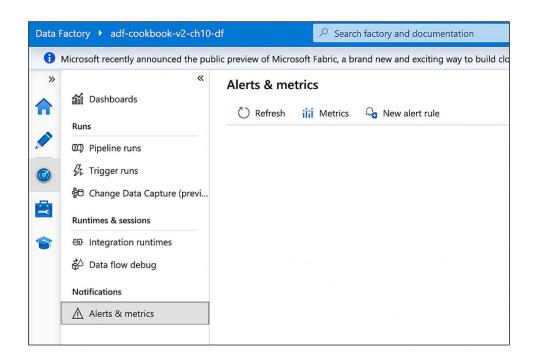




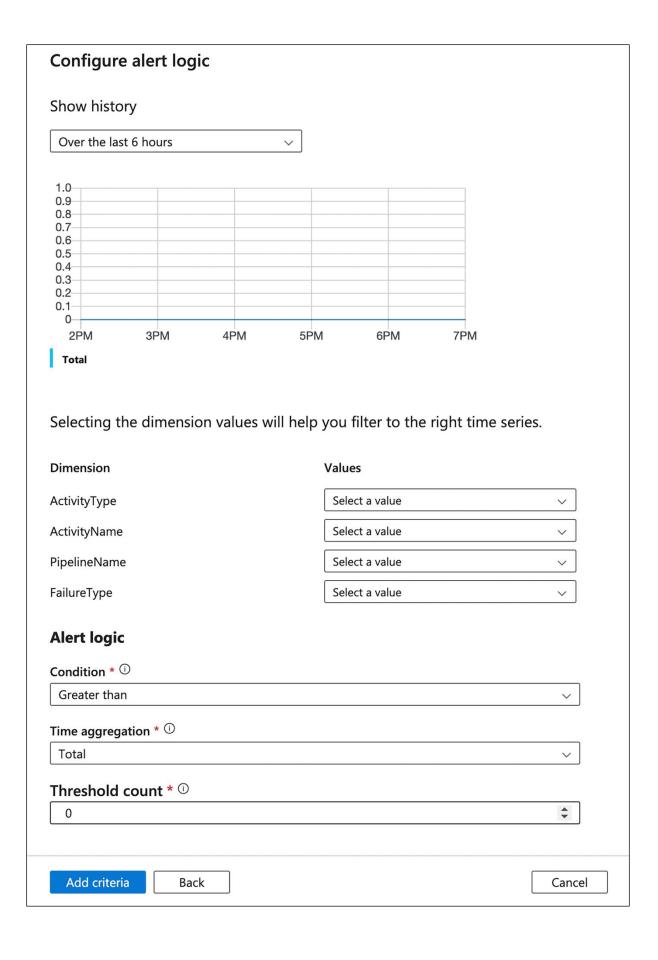




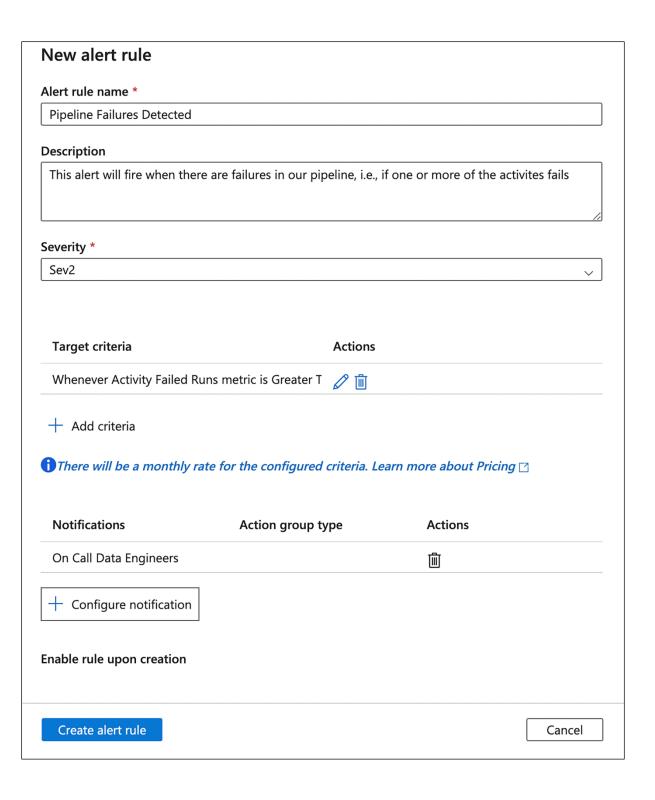




Add criteria Select one metric to set up the alert condition. Metrics ↑↓ External available capacity percentage of MVNet integration runtime External capacity utilization of MVNet integration runtime External waiting queue length of MVNet integration runtime Failed activity runs metrics Failed pipeline runs metrics Failed SSIS integration runtime start metrics Failed SSIS package execution metrics Failed trigger runs metrics Integration runtime available memory Integration runtime available node count Integration runtime CPU utilization Integration runtime queue duration Integration runtime queue length Maximum allowed entities count Maximum allowed factory size (GB unit) Pipeline available capacity percentage of MVNet integration runtime Pipeline capacity utilization of MVNet integration runtime Pipeline waiting queue length of MVNet integration runtime Stuck SSIS integration runtime stop metrics Succeeded activity runs metrics Continue Cancel



tion name *	ng ☑ and Privacy statement. ☑
lotify On Call Data En	ngineers
on can bata in	iginice:5
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Email	otimeations you a fine to receive
	ers@my-company.com
	are ny tany ara-
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	d to log into your Azure account. Learn about connecting to your Azure
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Enter your email used resources using the A	d to log into your Azure account. Learn about connecting to your Azure Azure app. Phone number *
Enter your email used resources using the A email@example.com	d to log into your Azure account. Learn about connecting to your Azure Azure app. m
Enter your email used resources using the A email@example.com	d to log into your Azure account. Learn about connecting to your Azure Azure app. Phone number *







You've been added to an Azure Monitor action group

You are now in the DE on call action group and will receive notifications sent to the group.

View details on Azure Monitor action groups >

Account information

Subscription ID:

Resource group name: adf-cookbook-v2-ch10-rg

Action group name: Data Engineer On Call

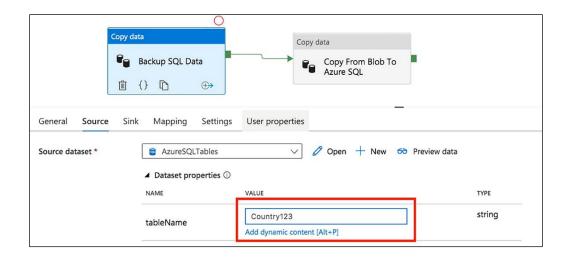
To unsubscribe from this action group, click here.

f in

Privacy Statement

Microsoft Corporation, One Microsoft Way, Redmond, WA 98052

Microsoft



A Your Azure Monitor alert was triggered

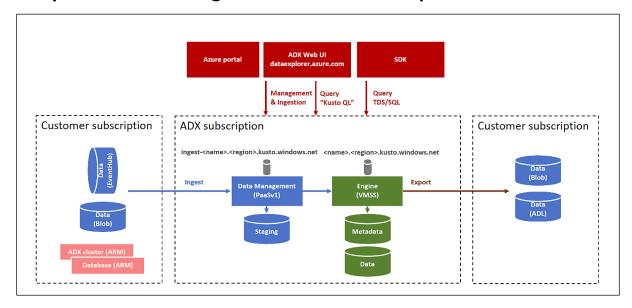
Azure monitor alert rule Pipeline Failures Detected was triggered for adf-cookbookv2-ch10-df at August 25, 2023 3:06 UTC.

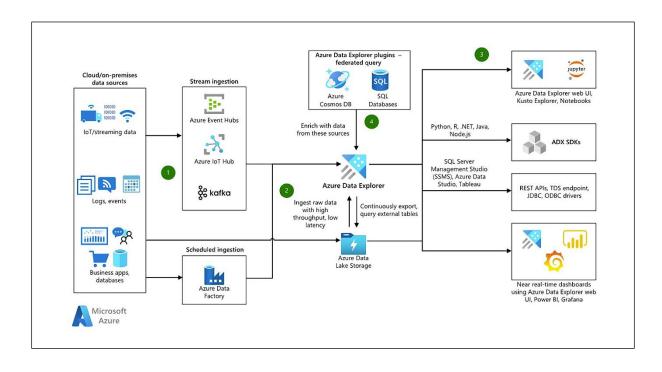
Rule ID	/subscriptions/Learners descriptions/Learners descriptions/Learners descriptions/Learners descriptions/Learners descriptions/English descriptions/Learners
Resource ID	/subscriptions/Learning deficiency/subscriptions/Learning deficiency/subscriptions/learning/subscriptions/subscr

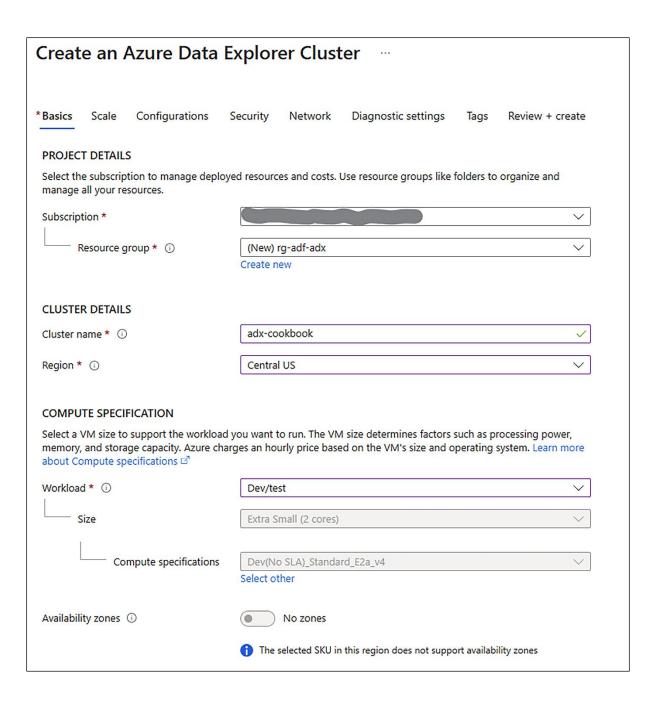
Alert Activated Because:

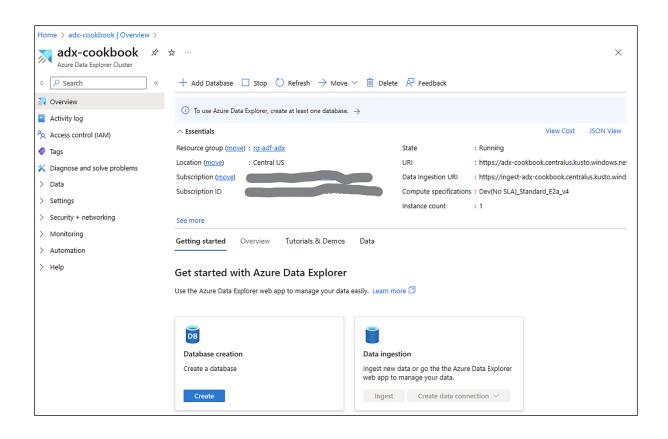
Metric name	ActivityFailedRuns
Metric namespace	factories/adf-cookbook-v2-ch10-df
Dimensions	ResourceId = /SUBSCRIPTIONS/
	E/RESOURCEGROUPS/ADF-COOKB
	OOK-V2-CH10-RG/PROVIDERS/MICROSOFT.DATAFACT
	ORY/FACTORIES/ADF-COOKBOOK-V2-CH10-DF
Time Aggregation	Total
Period	Over the last 1 mins
Value	2
Operator	GreaterThan
Threshold	0
IIIICSIIUIU	0
Criterion Type	StaticThresholdCriterion

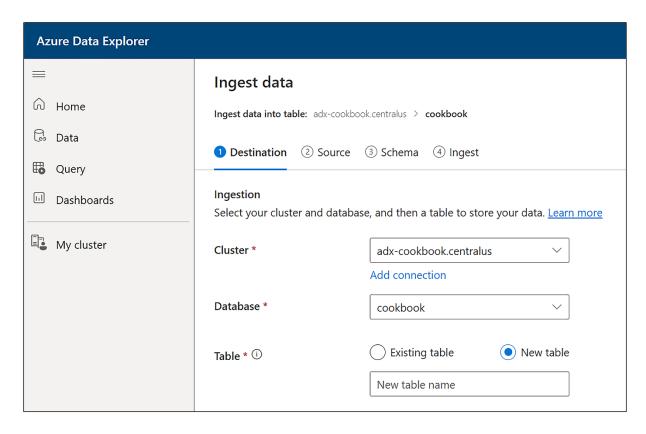
Chapter 11: Working with Azure Data Explorer

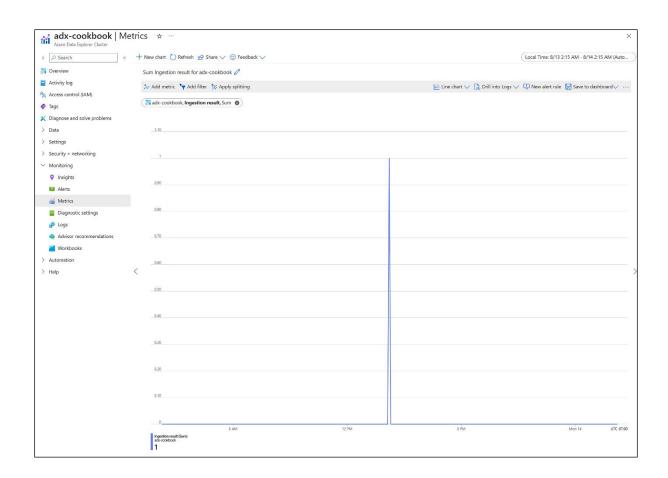


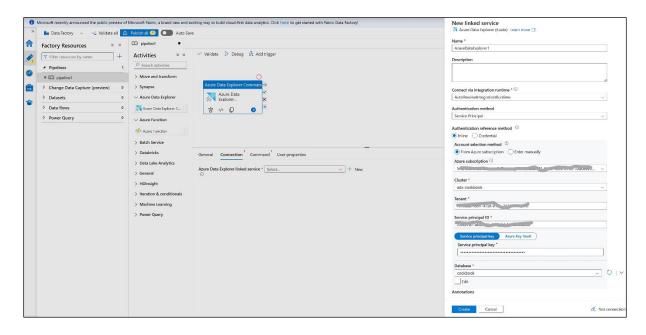




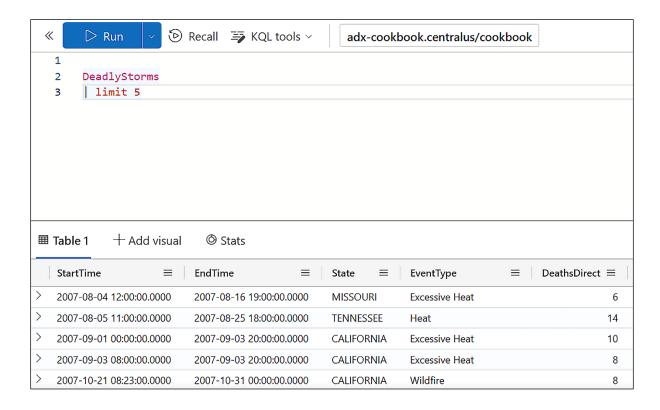


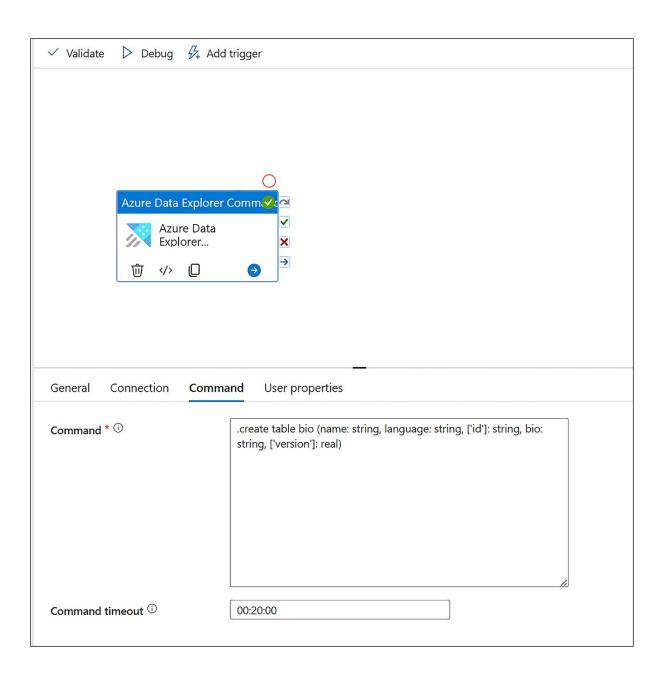


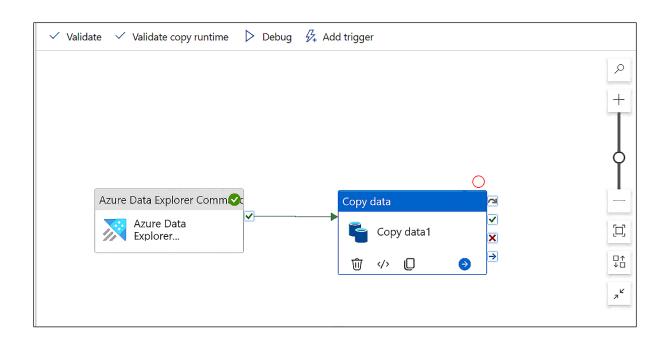










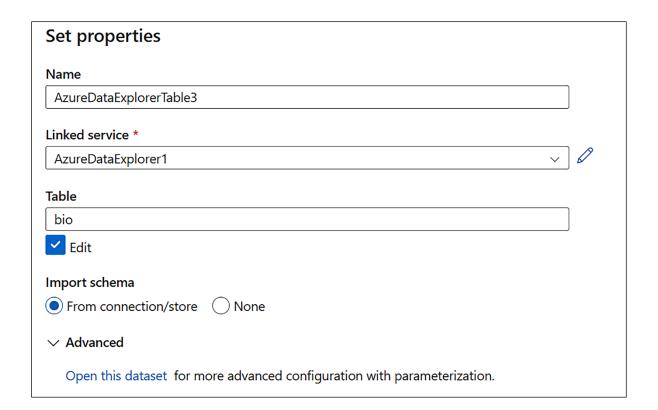


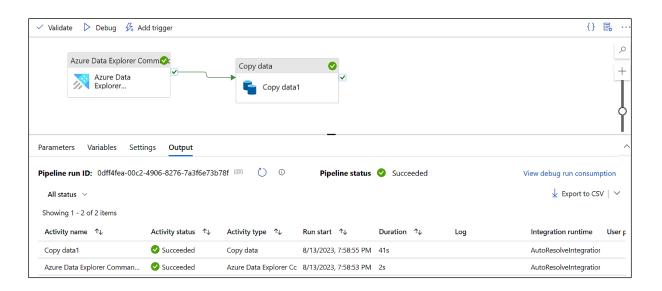
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Preview data

Linked service: AzureBlobStorage1

Object: samplejson

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    "language": "Sindhi",
    "id": "VS90F92YF627HFV9",
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    "version": 6.1
    },
    {
        "name": "Afzal Ghaffar",
        "language": "Sindhi",
        "id": "ENTOCRISRSCLZ6KU",
        "bio": "Nalquam sollicitudin ante ligula, eget malesuada nibh efficitur et. Pellentesque massa sem,
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Chapter 12: The Best Practices of Working with ADF

