05/09/2023

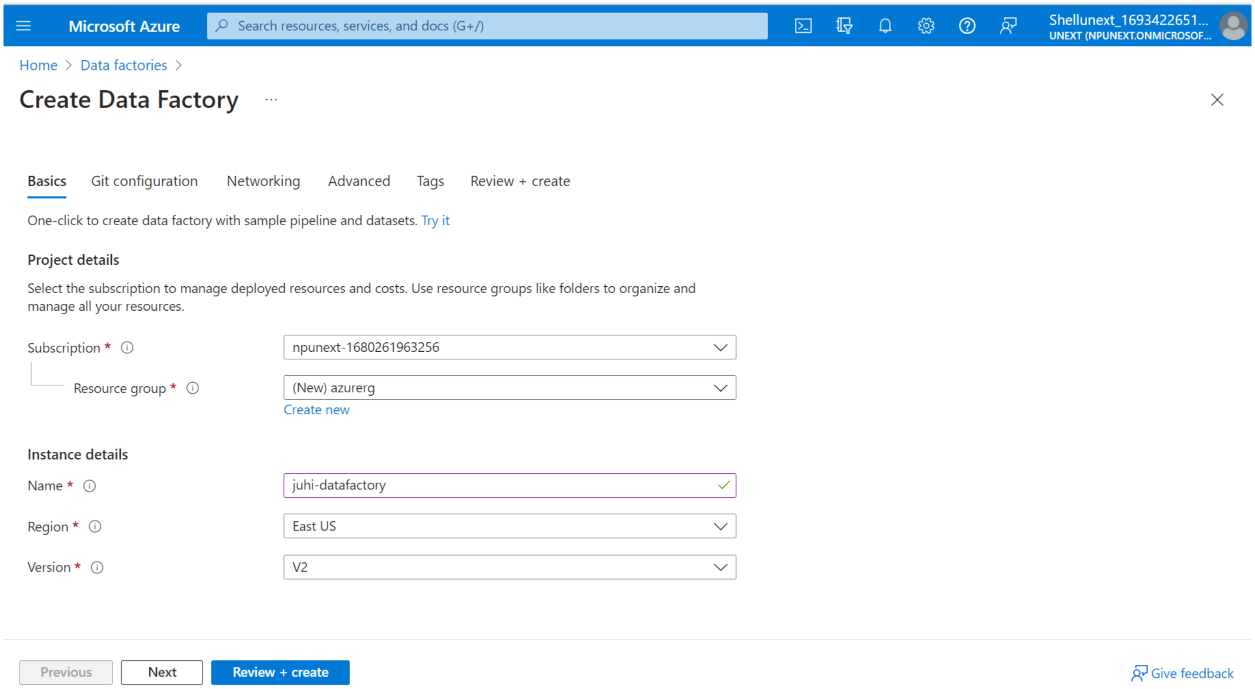
Azure Storage Types
Access and Authentication
Azure Active Directory (Azure AD) Integration, Shared Access Signatures (SAS)
Role-Based Access Control (RBAC), Access Control Lists (ACLs)
Virtual Network Service Endpoints, Private Endpoints (Preview)
Azure Data Factory
ETL v/s ELT
Datasets, Integration Runtime
Parameters, System Variables
Data Flows, Linked Services
Triggers, Activities, Debugging and Monitoring
Pipeline, Pipeline Chaining

Azure Active Directory Integration for authorizing access to blob, queue and table resources. Microsoft recommends using Azure AD credentials to authorize requests to data when possible for optimal security and ease of use.
We can use Azure role-based access control to manage a security principal permission to blob, queue and table resources in the storage account.

Access Keys and SAS (pdf)

ETL - Extract, Transforms, & Load
ELT - Extract, Load, & Transform

Azure Data Factory


Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422651...
UNEXT (NPUNEXT.ONMICROSOF...
Home > Data factories >
Basics
Git configuration
Networking
Advanced
Tags
Review + create
Previous
Next
Review + create
Give feedback

Create Data Factory

One-click to create data factory with sample pipeline and datasets. Try it

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * npunext-1680261963256

Resource group * (New) azurerg

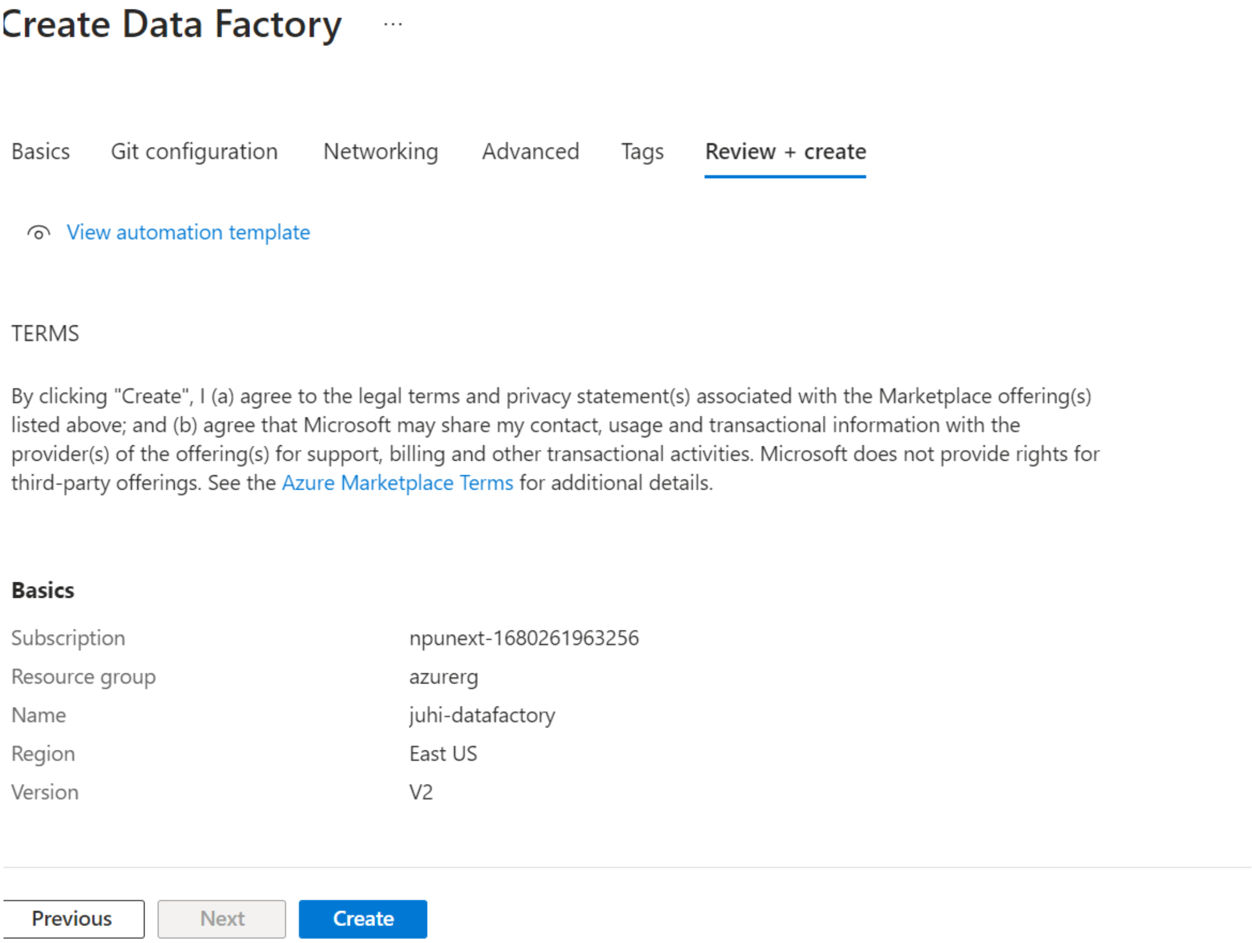
Create new

Instance details

Name * juhi-datafactory

Region * East US

Version * V2


Basics
Git configuration
Networking
Advanced
Tags
Review + create
View automation template
Previous
Next
Create

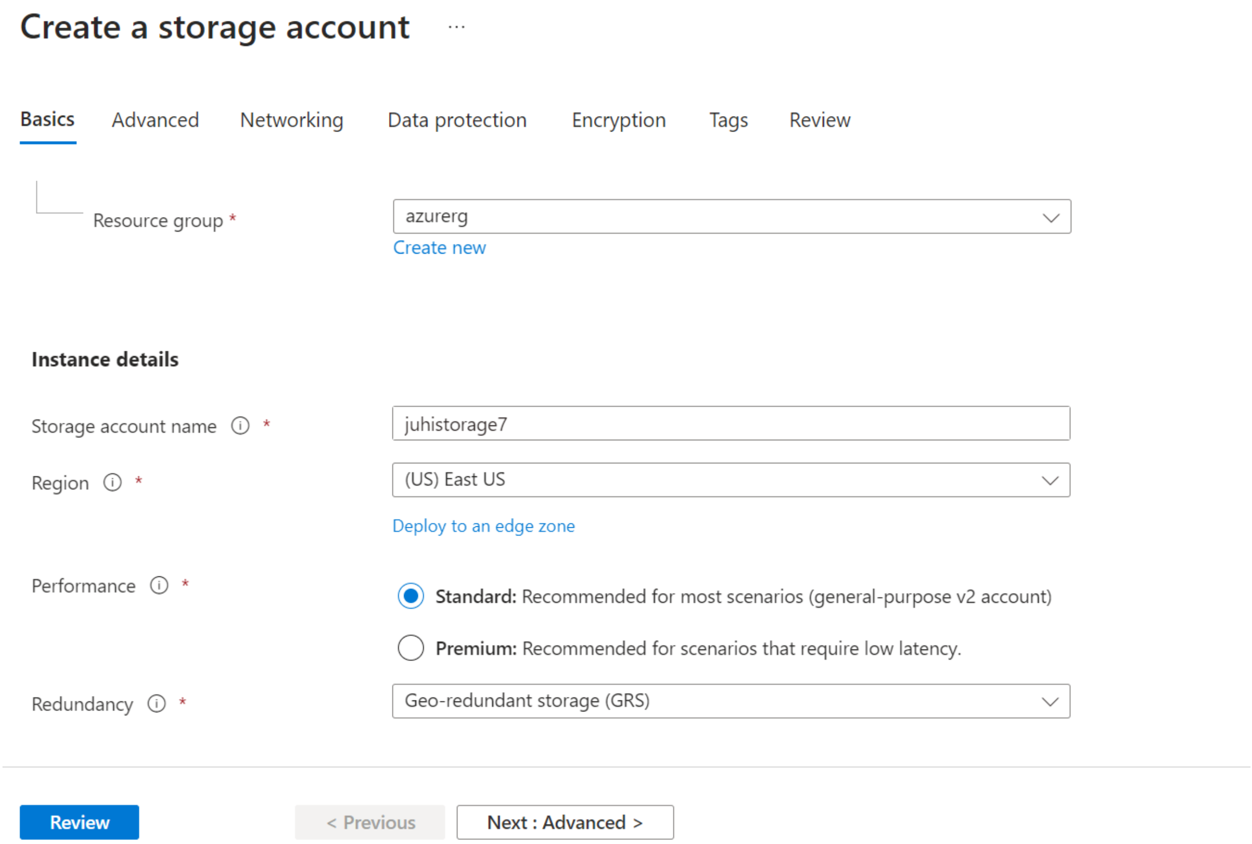
Create Data Factory

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; and (b) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

Basics

Subscription	npunext-1680261963256
Resource group	azurerg
Name	juhi-datafactory
Region	East US
Version	V2


Create a storage account ···
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review
Create new
Deploy to an edge zone
Review
< Previous
Next : Advanced >

Resource group * azurerg

Instance details

Storage account name ⓘ * juhistorage7

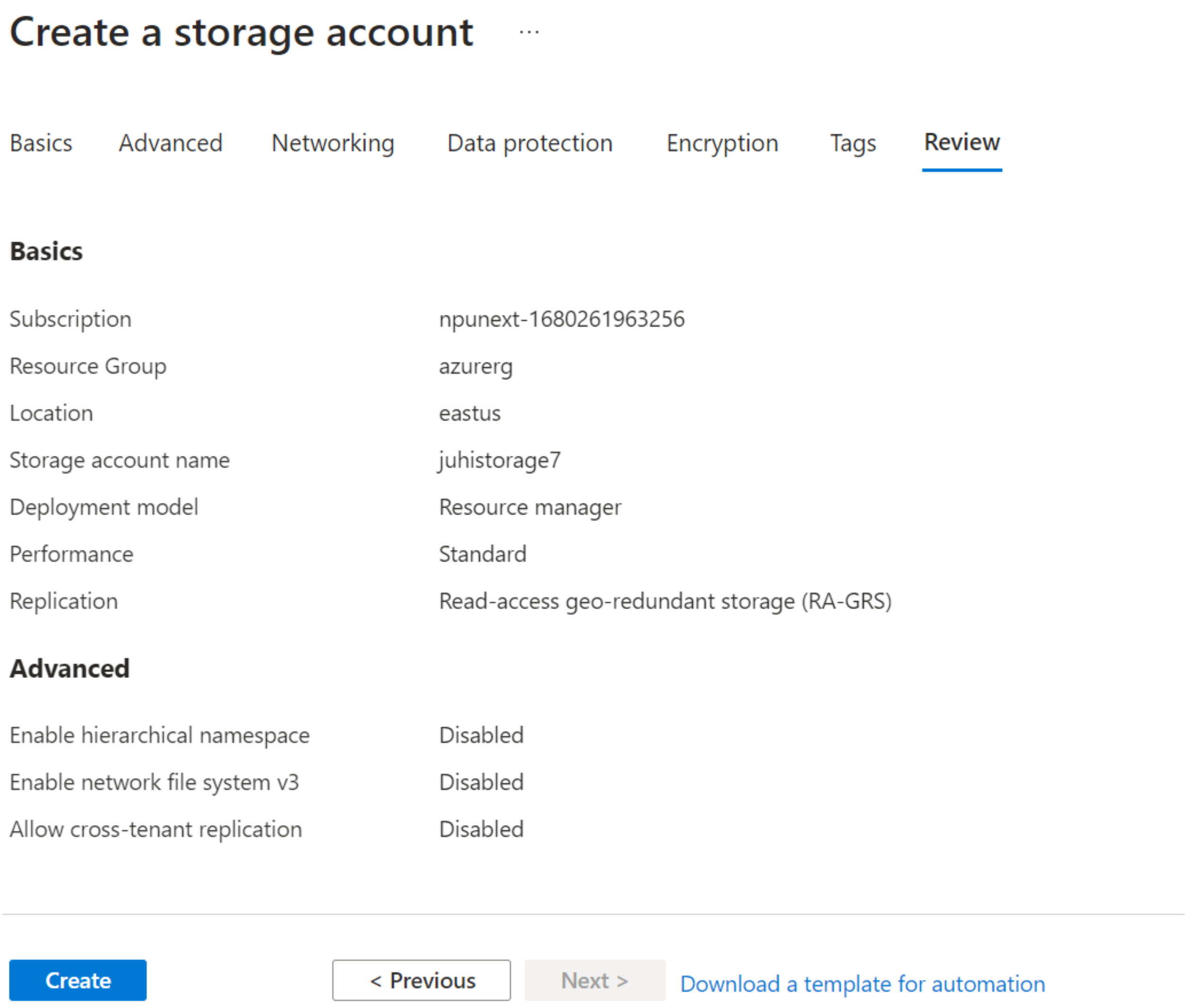
Region ⓘ * (US) East US

Performance ⓘ *

● **Standard:** Recommended for most scenarios (general-purpose v2 account)

○ **Premium:** Recommended for scenarios that require low latency.

Redundancy ⓘ * Geo-redundant storage (GRS)


···
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review

Create a storage account

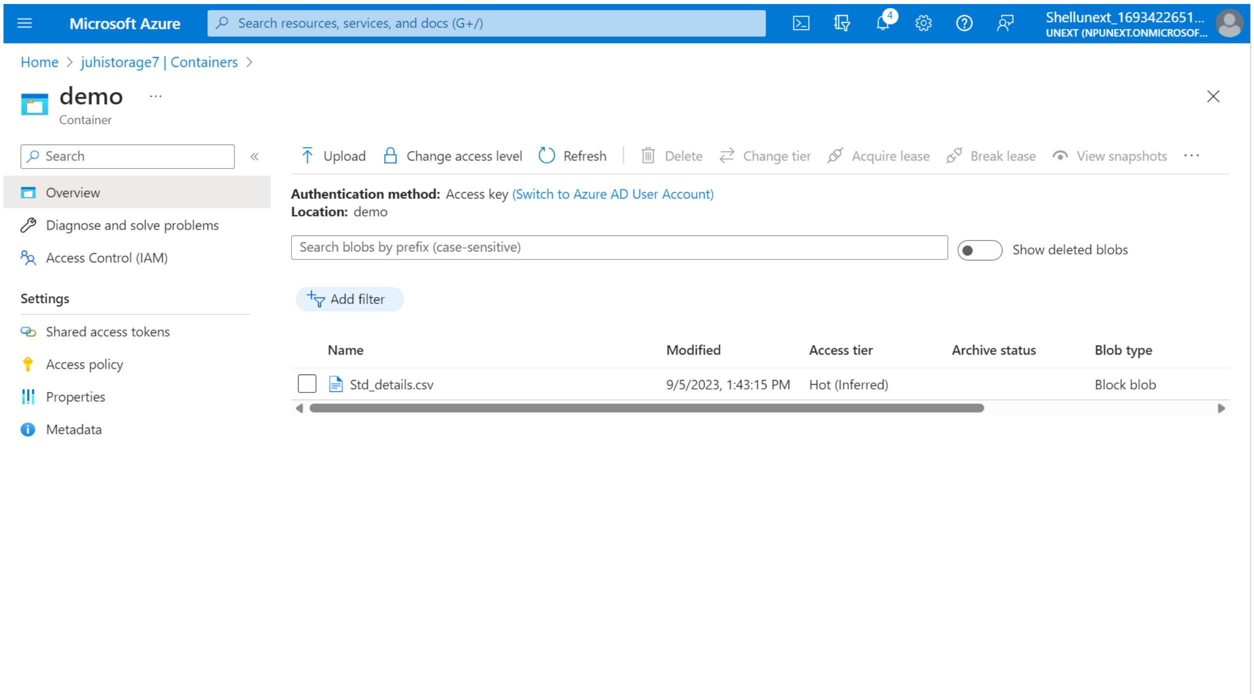
Basics

Subscription	npunext-1680261963256
Resource Group	azurerg
Location	eastus
Storage account name	juhistorage7
Deployment model	Resource manager
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled

Create
< Previous
Next >
Download a template for automation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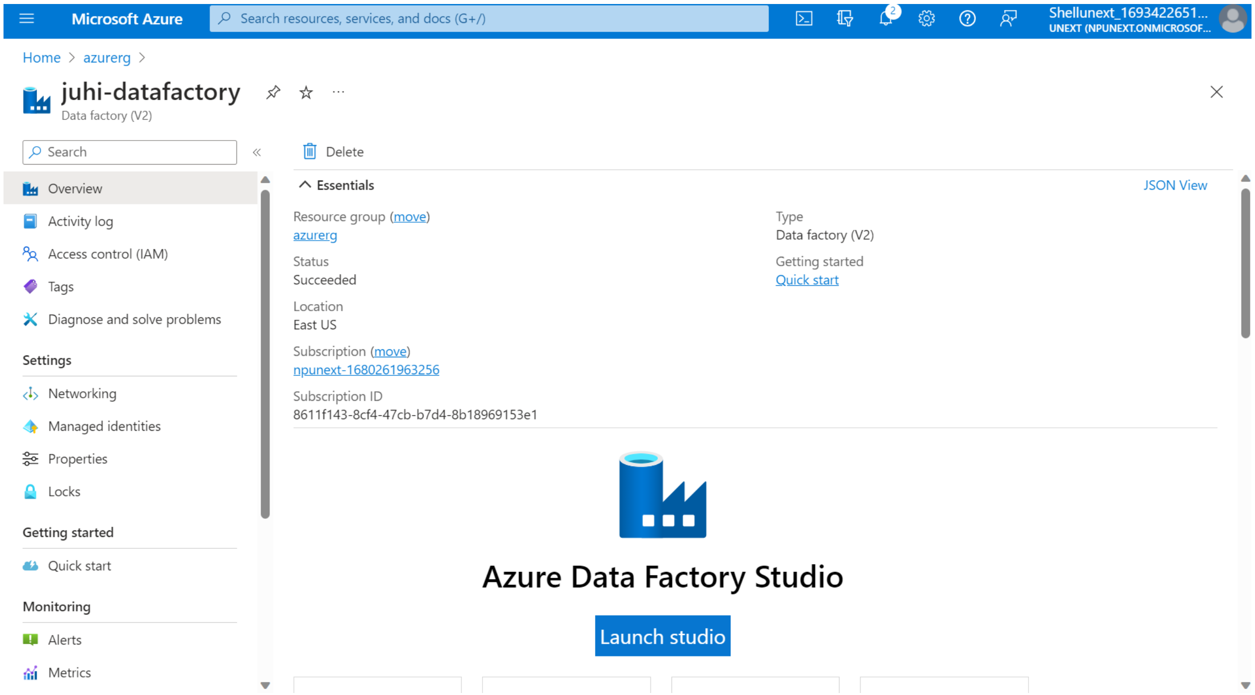
Search resources, services, and docs (G+/)
Shellunext_1693422651...
UNEXT (NPUNEXT.ONMICROSOF...
Home > juhistorage7 | Containers >
demo
Container
Search
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Shared access tokens
Access policy
Properties
Metadata
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapshots
Search blobs by prefix (case-sensitive)
Show deleted blobs
Add filter

Authentication method: Access key (Switch to Azure AD User Account)
Location: demo

Name	Modified	Access tier	Archive status	Blob type
☐ Std_details.csv	9/5/2023, 1:43:15 PM	Hot (Inferred)		Block blob


Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422651...
UNEXT (NPUNEXT.ONMICROSOF...
Home > azurerg >
juhi-datafactory
Data factory (V2)
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Networking
Managed identities
Properties
Locks
Getting started
Quick start
Monitoring
Alerts
Metrics
Delete
Essentials
JSON View
Azure Data Factory Studio
Launch studio

Resource group (move)
azurerg

Status
Succeeded

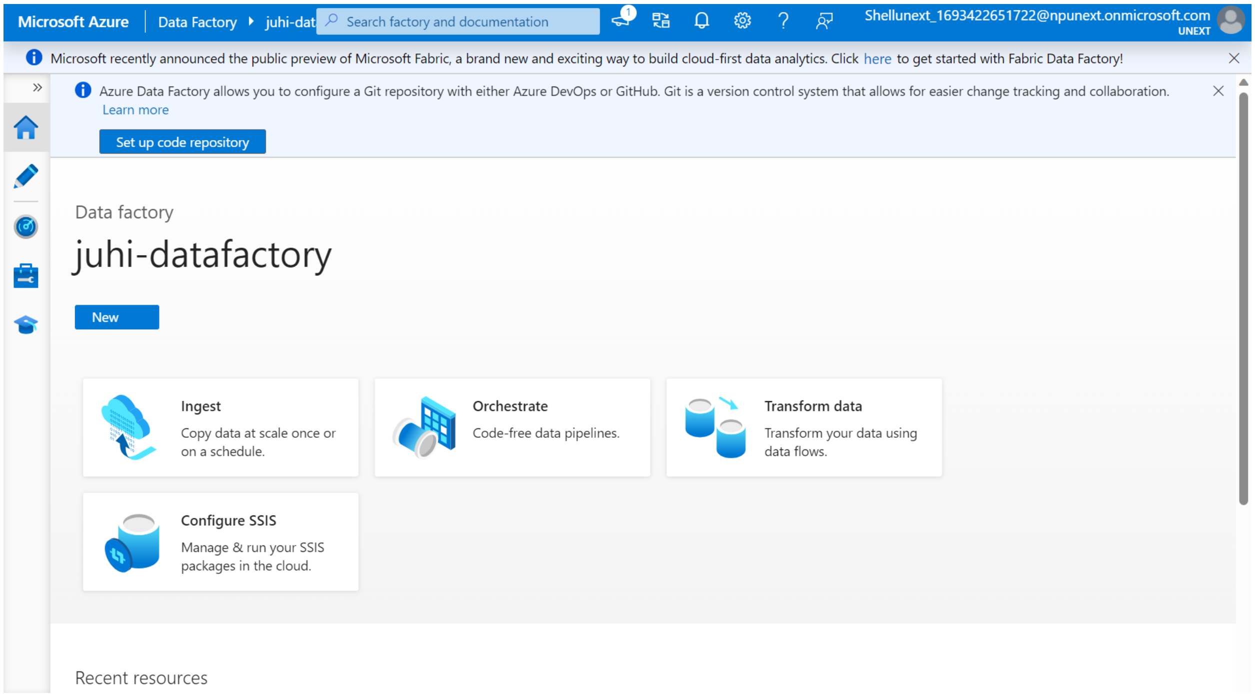
Location
East US

Subscription (move)
npunext-1680261963256

Subscription ID
8611f143-8cf4-47cb-b7d4-8b18969153e1

Type
Data factory (V2)

Getting started
Quick start


Microsoft Azure
Data Factory
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UNEXT

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!

Azure Data Factory allows you to configure a Git repository with either Azure DevOps or GitHub. Git is a version control system that allows for easier change tracking and collaboration. Learn more

Set up code repository
Data factory
juhi-datafactory
New

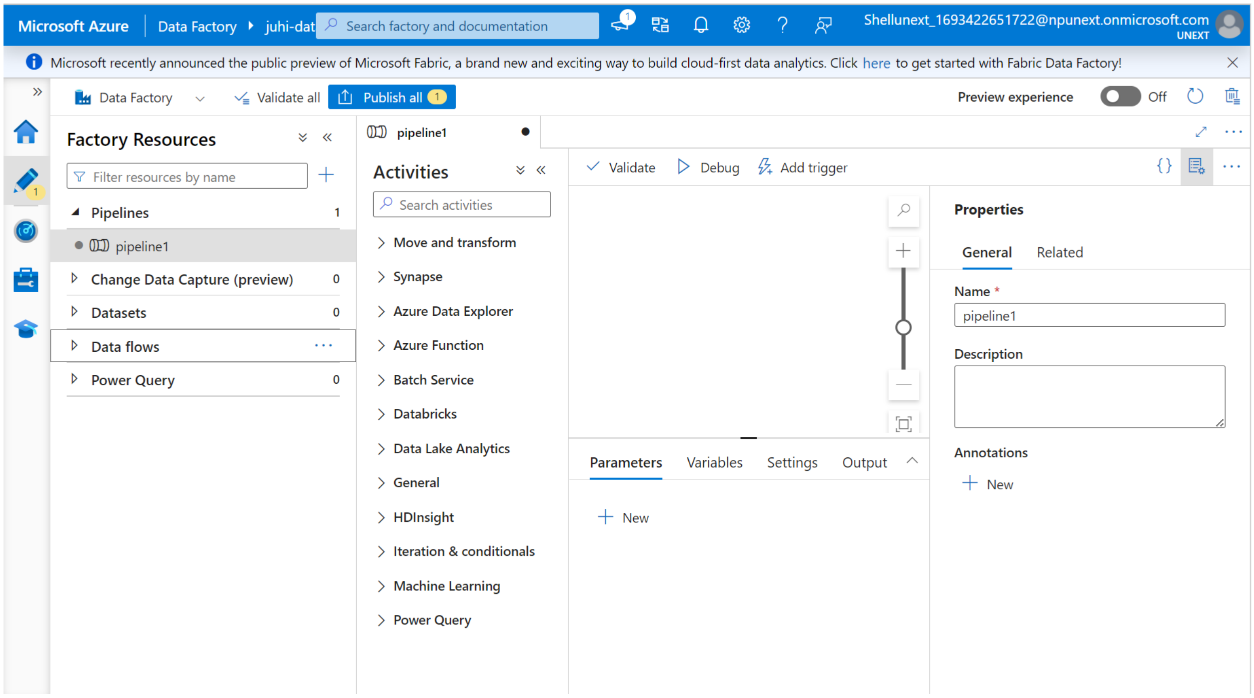
Ingest Copy data at scale once or on a schedule.

Orchestrate Code-free data pipelines.

Transform data Transform your data using data flows.

Configure SSIS Manage & run your SSIS packages in the cloud.

Recent resources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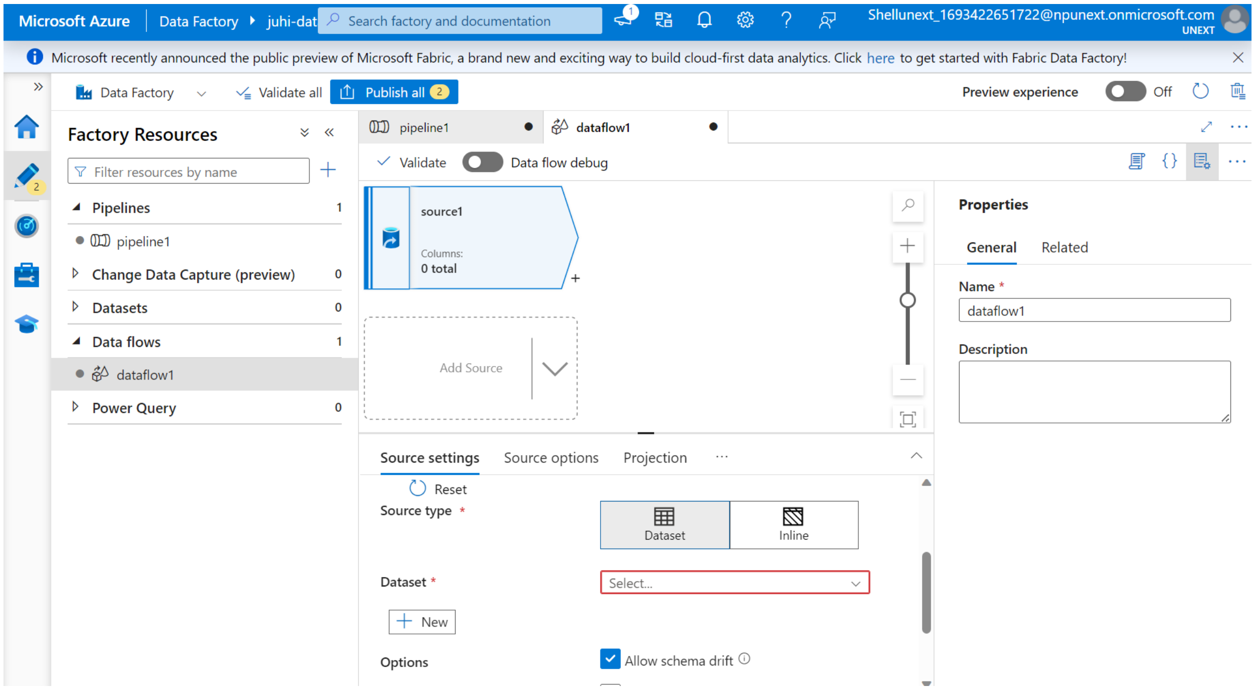
Data Factory
Validate all
Publish all 1
Preview experience
Off
Factory Resources
Filter resources by name
Pipelines 1
pipeline1
Change Data Capture (preview) 0
Datasets 0
Data flows
Power Query 0
pipeline1
Activities
Search activities
Move and transform
Synapse
Azure Data Explorer
Azure Function
Batch Service
Databricks
Data Lake Analytics
General
HDInsight
Iteration & conditionals
Machine Learning
Power Query
Validate
Debug
Add trigger
Parameters
Variables
Settings
Output
New
Properties
General
Related

Name * pipeline1

Description

Annotations
New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Data Factory
Validate all
Publish all 2
Preview experience
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Change Data Capture (preview) 0
Datasets 0
Data flows 1
dataflow1
Power Query 0
pipeline1
dataflow1
Validate
Data flow debug
source1
Columns:
0 total
Add Source
Properties
General
Related
Source settings
Source options
Projection
Reset
Dataset
Inline
New
Options

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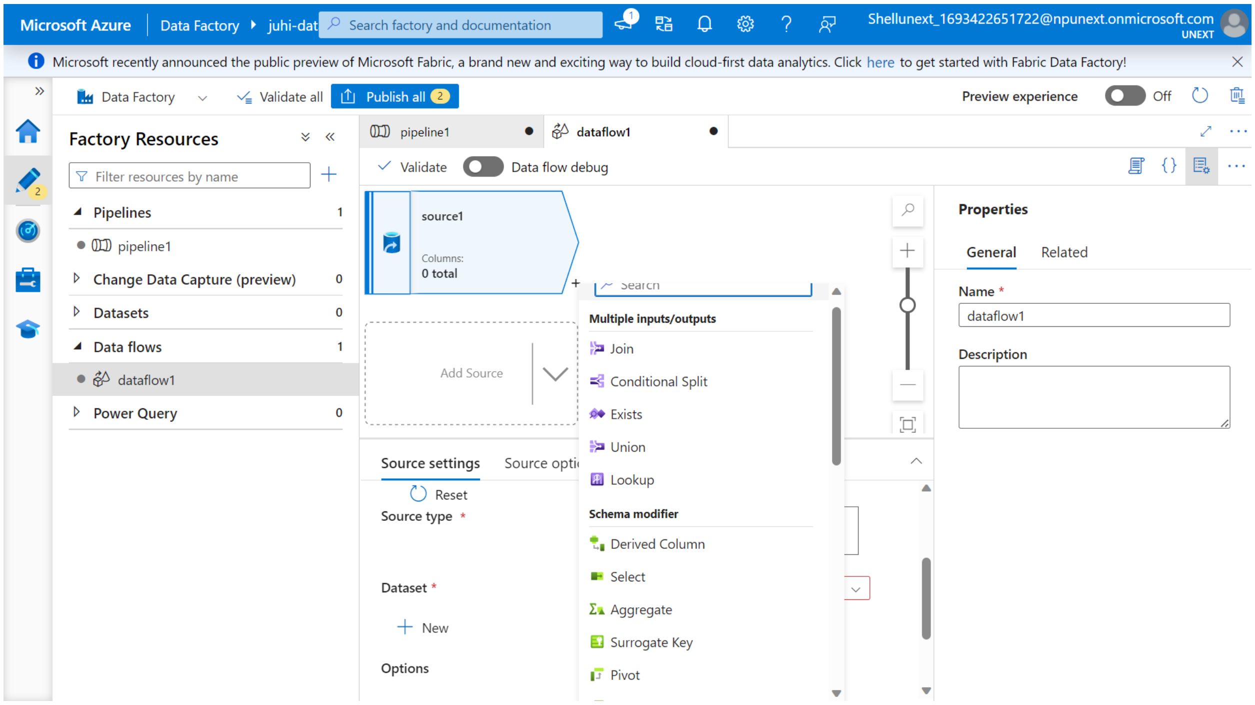
Name * dataflow1

Description

Source type * Dataset

Dataset * Select...

☑ Allow schema drift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Data Factory
Validate all
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pipeline1
Change Data Capture (preview) 0
Datasets 0
Data flows 1
dataflow1
Power Query 0
pipeline1
dataflow1
Validate
Data flow debug
source1
Columns:
0 total
Add Source
Search
Multiple inputs/outputs
Join
Conditional Split
Exists
Union
Lookup
Schema modifier
Derived Column
Select
Aggregate
Surrogate Key
Pivot
Properties
General
Related
Source settings
Source opti
Reset
Source type *
Dataset *
New
Options

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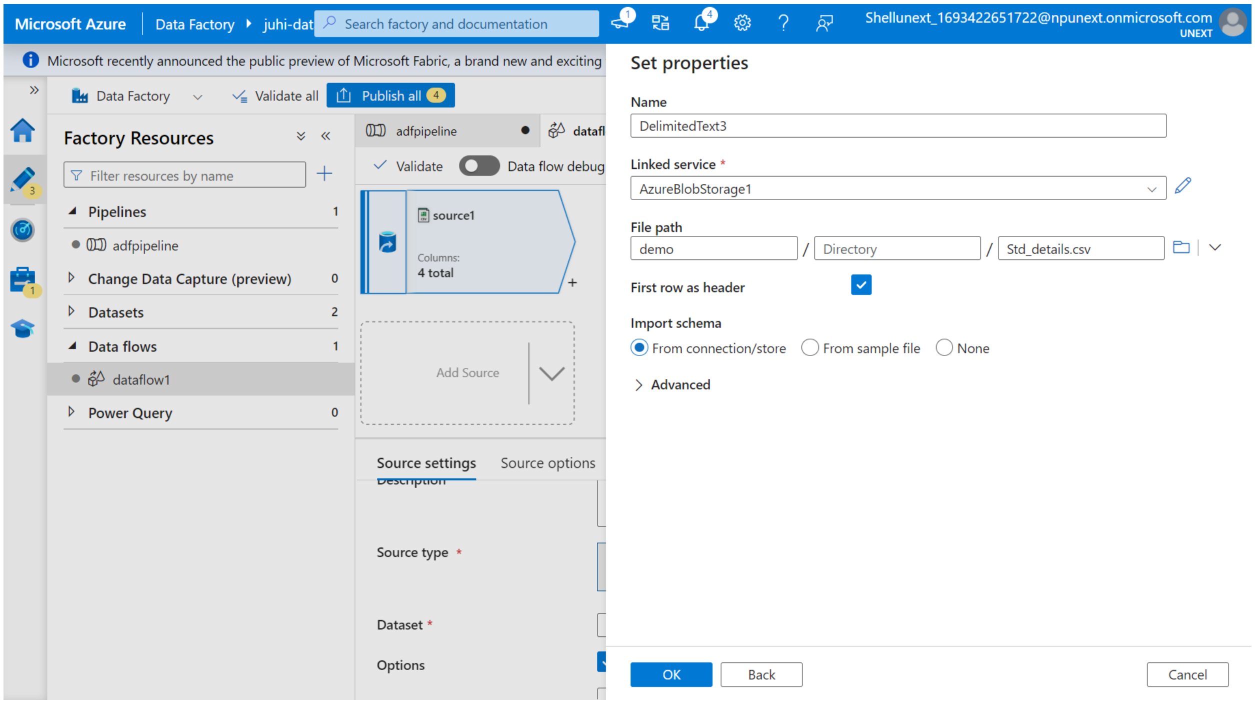
Name * dataflow1

Description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Data flows 1
dataflow1
Power Query 0
adfpipeline
datafl
Validate
Data flow debug
source1
Columns:
4 total
Add Source
Source settings
Source options
Description
Source type
Dataset
Options
OK
Back
Cancel

Set properties

Name: DelimitedText3

Linked service *: AzureBlobStorage1

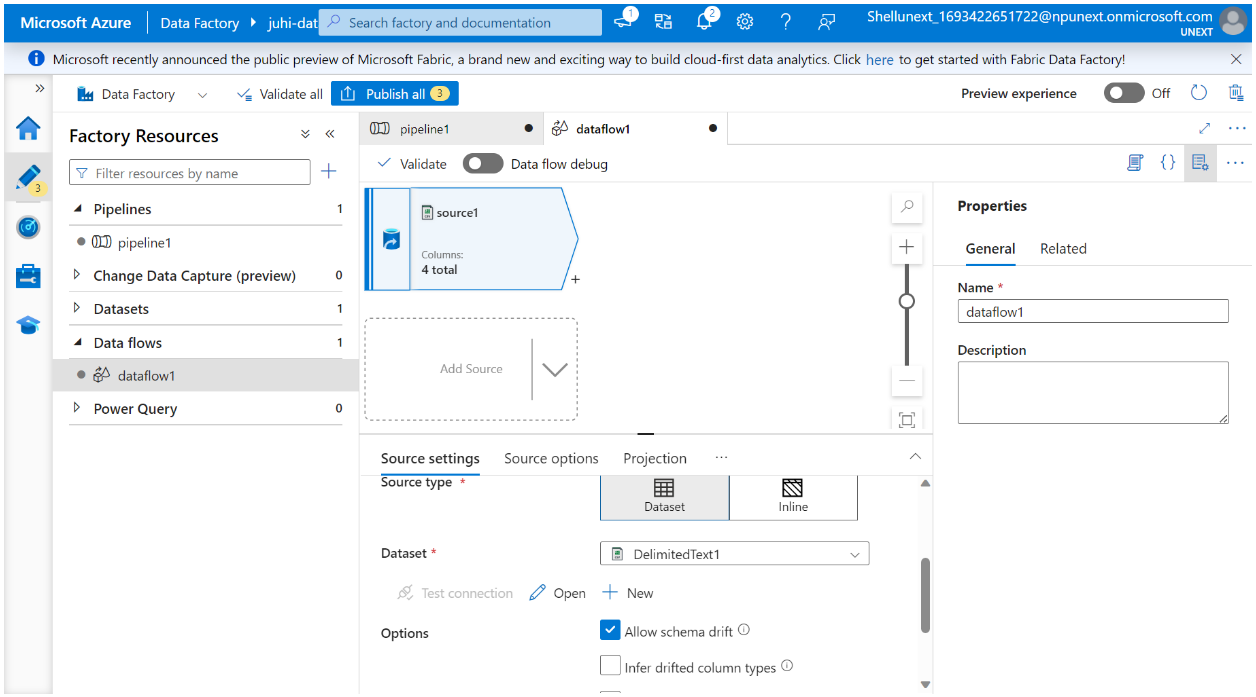
File path: demo / Directory / Std_details.csv

First row as header ☑

Import schema

● From connection/store ○ From sample file ○ None

Advanced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source1
Columns:
4 total
Add Source
Source settings
Source options
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Test connection
Open
New
Properties
General
Related
Description

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Name *: dataflow1

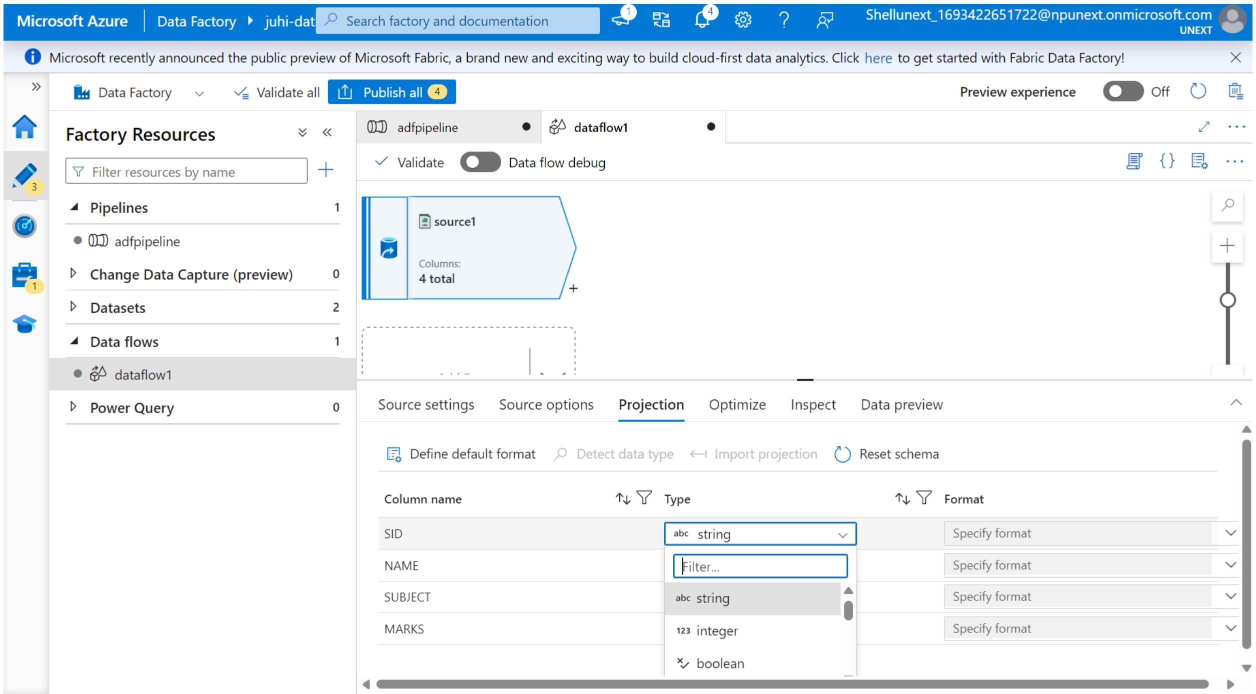
Source type *: Dataset | Inline

Dataset *: DelimitedText1

Options

☑ Allow schema drift

☐ Infer drifted column types



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Column name	Type	Format
SID	string	Specify format
NAME		Specify format
SUBJECT		Specify format
MARKS		Specify format

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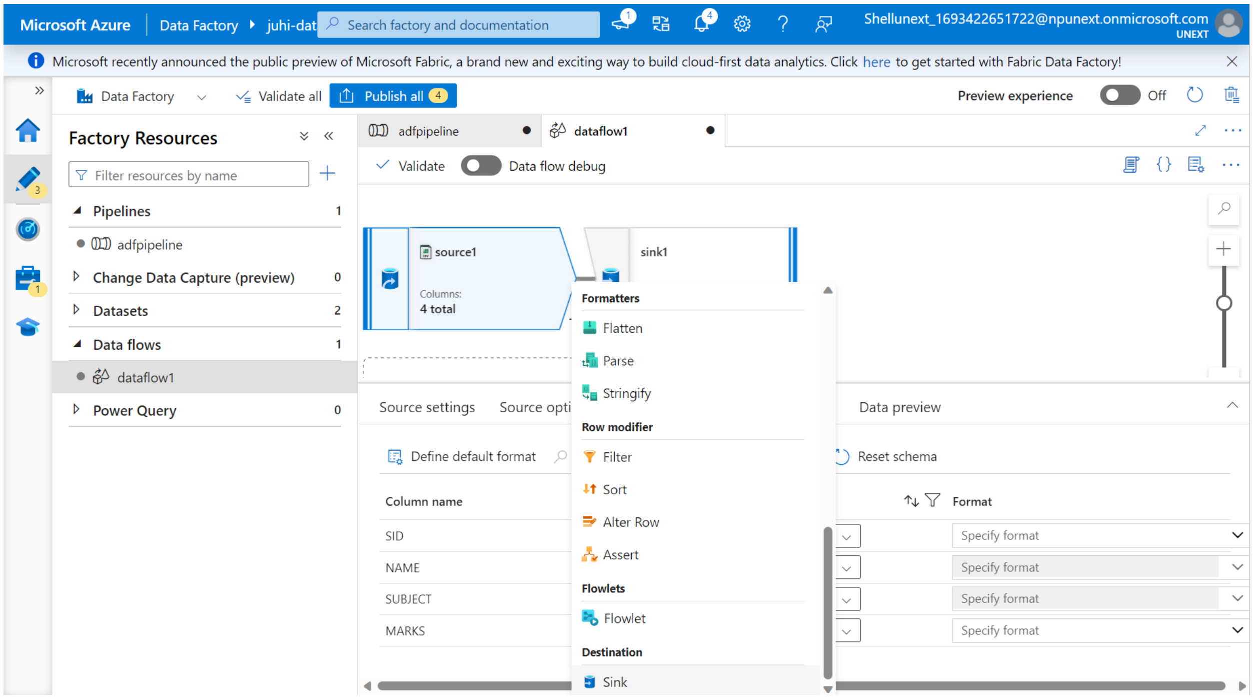
Columns:
4 total
Source settings
Source options
Projection
Optimize
Inspect
Data preview
Define default format
Detect data type
Import projection
Reset schema
Filter...
string
integer
boolean



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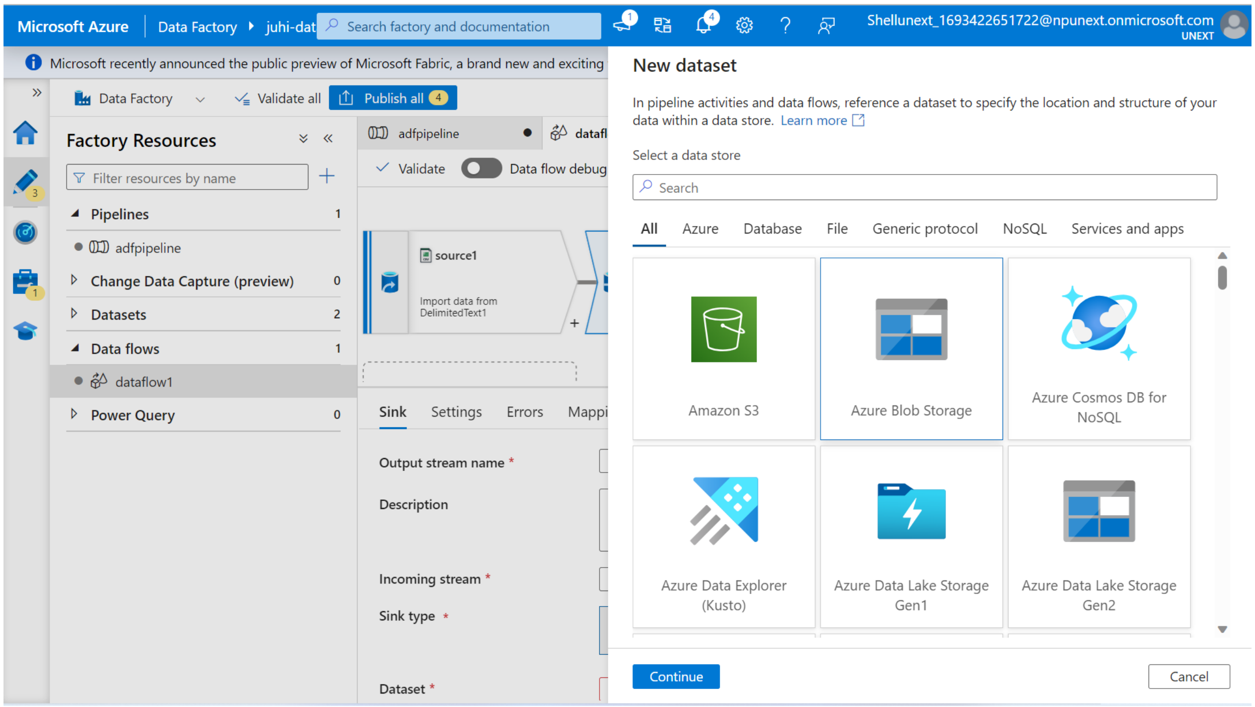
4 total
sink1
Formatters
Flatten
Parse
Stringify
Row modifier
Filter
Sort
Alter Row
Assert
Flowlets
Flowlet
Destination
Sink
Source settings
Source opti
Data preview
Define default format
Reset schema
Column name
Format
SID
NAME
SUBJECT
MARKS
Specify format
Specify format
Specify format
Specify format



Microsoft Azure | Data Factory ▸ juhi-dat

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UNEXT

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New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. Learn more

Select a data store

Search factory and documentation
Data Factory
Validate all
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Filter resources by name
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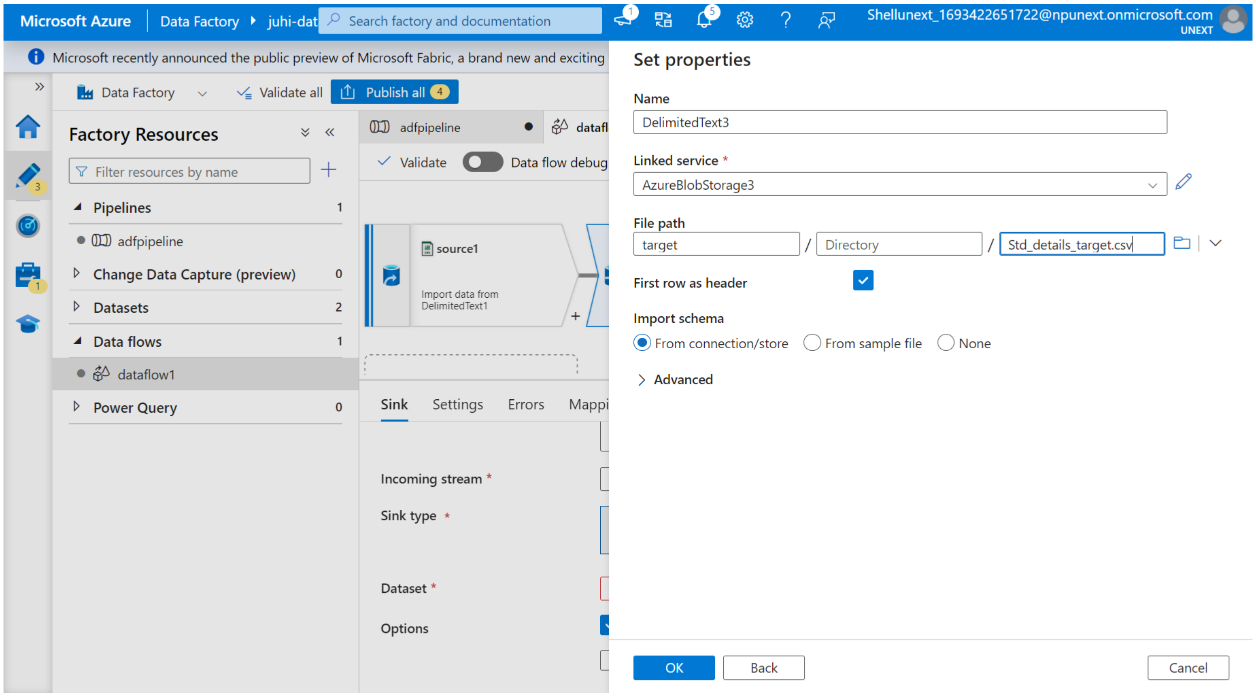
Data flow debug
source1
Import data from DelimitedText1
Sink
Settings
Errors
Mappi
Output stream name *
Description
Incoming stream *
Sink type *
Dataset *
Search
All
Azure
Database
File
Generic protocol
NoSQL
Services and apps
Amazon S3
Azure Blob Storage
Azure Cosmos DB for NoSQL
Azure Data Explorer (Kusto)
Azure Data Lake Storage Gen1
Azure Data Lake Storage Gen2
Continue
Cancel



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UNEXT

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Set properties

Name: DelimitedText3

Linked service *: AzureBlobStorage3

File path: target / Directory / Std_details_target.csv

First row as header ☑

Import schema: ● From connection/store ○ From sample file ○ None

Advanced

Search factory and documentation
Data Factory
Validate all
Publish all 4
Factory Resources
Filter resources by name
Pipelines 1
adfpipeline
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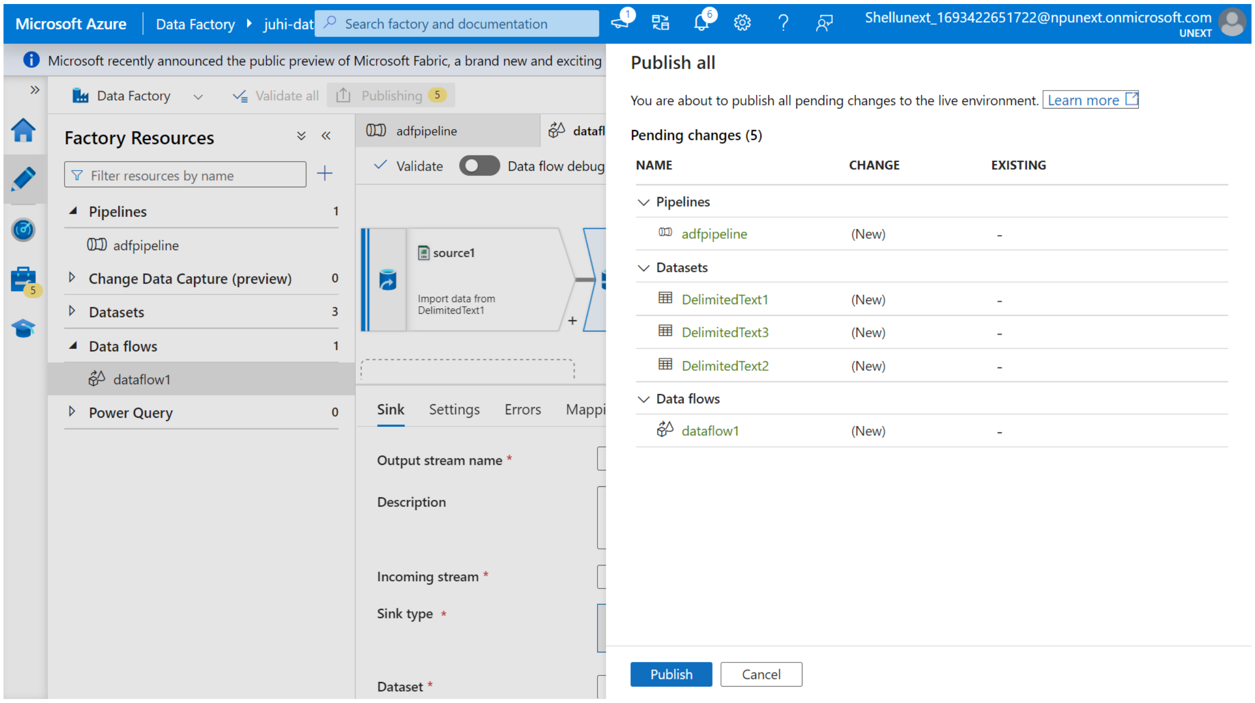
Datasets 2
Data flows 1
dataflow1
Power Query 0
adfpipeline
dataf
Validate
Data flow debug
source1
Import data from DelimitedText1
Sink
Settings
Errors
Mappi
Incoming stream *
Sink type *
Dataset *
Options
OK
Back
Cancel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Data Factory
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Search factory and documentation
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UNEXT
Data Factory
Validate all
Publishing 5
Factory Resources
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Power Query 0
adfpipeline
datafl
Validate
Data flow debug
source1
Import data from DelimitedText1
Sink
Settings
Errors
Mappi
Output stream name *
Description
Incoming stream *
Sink type *
Dataset *
Publish
Cancel

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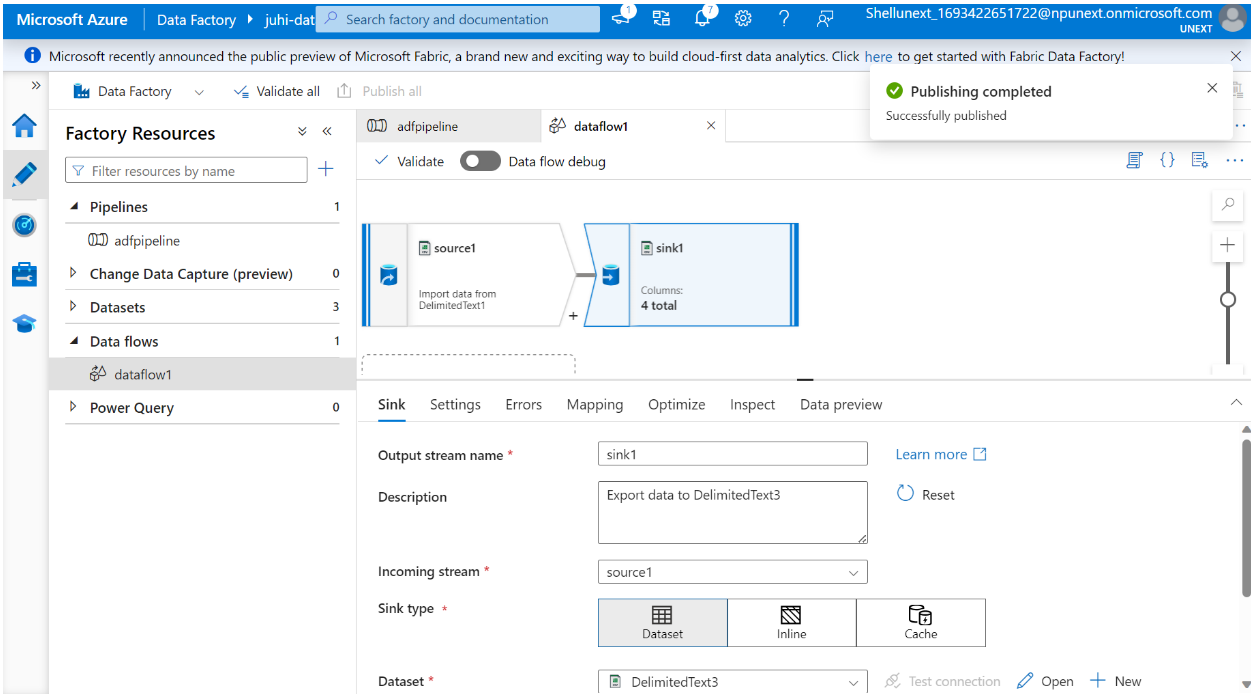
Publish all

You are about to publish all pending changes to the live environment. Learn more

Pending changes (5)

NAME	CHANGE	EXISTING
Pipelines		
adfpipeline	(New)	-
Datasets		
DelimitedText1	(New)	-
DelimitedText3	(New)	-
DelimitedText2	(New)	-
Data flows		
dataflow1	(New)	-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Data Factory
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sink1
Columns:
4 total
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Settings
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Inspect
Data preview
Learn more
Reset
Inline
Cache
Test connection
Open
New

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Publishing completed

Successfully published

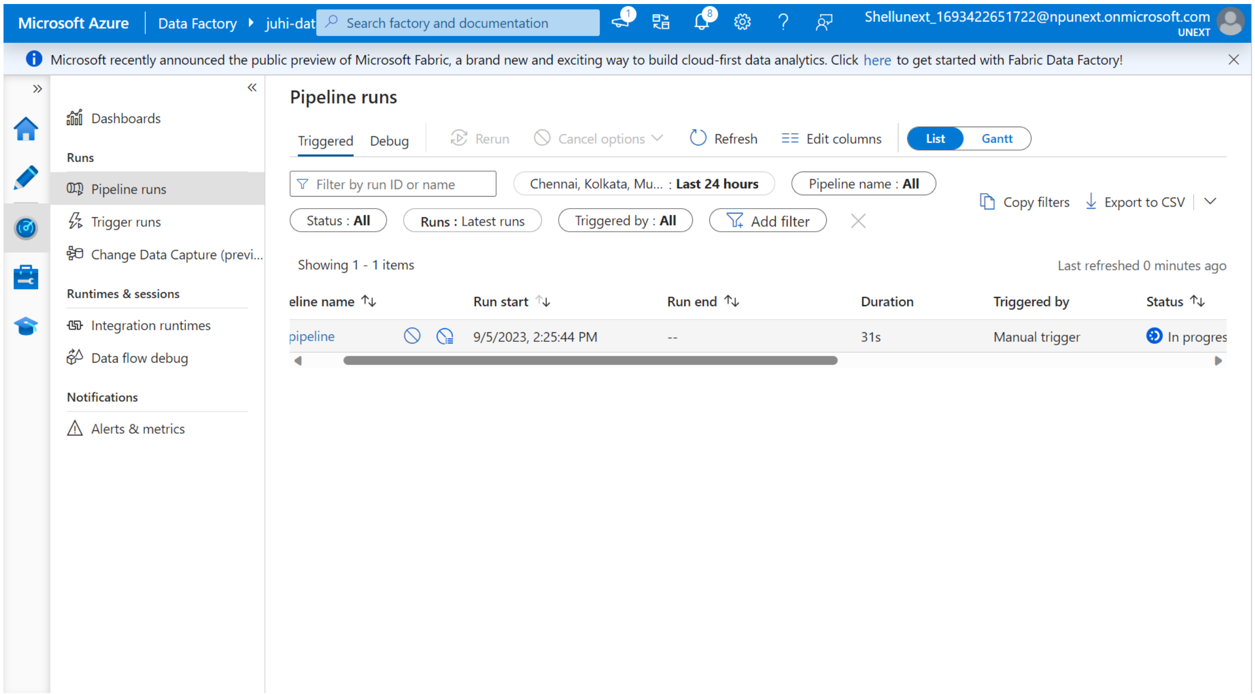
Output stream name *: sink1

Description: Export data to DelimitedText3

Incoming stream *: source1

Sink type *: Dataset

Dataset *: DelimitedText3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Dashboards
Runs
Pipeline runs
Trigger runs
Change Data Capture (previ...
Runtimes & sessions
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Debug
Rerun
Cancel options
Refresh
Edit columns
List
Gantt
Filter by run ID or name
Chennai, Kolkata, Mu... : Last 24 hours
Pipeline name : All
Status : All
Runs : Latest runs
Triggered by : All
Add filter
Copy filters
Export to CSV

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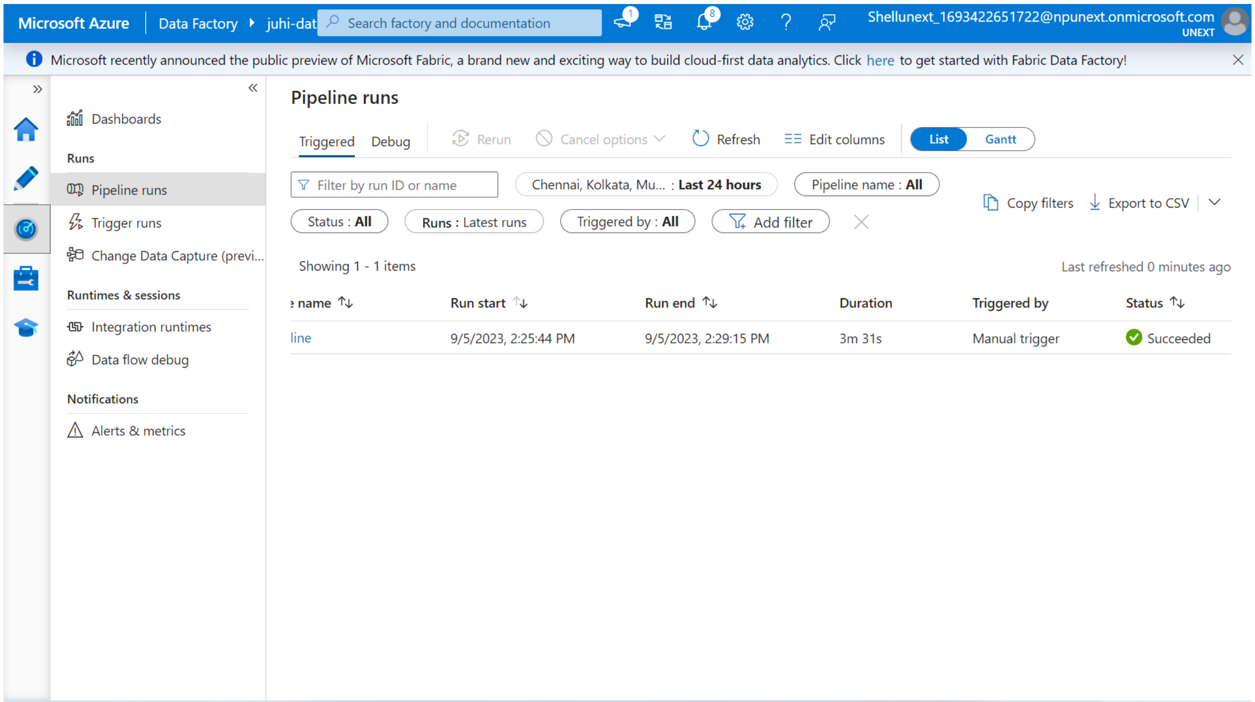
Pipeline runs

Showing 1 - 1 items

Last refreshed 0 minutes ago

eline name	Run start	Run end	Duration	Triggered by	Status
pipeline	9/5/2023, 2:25:44 PM	--	31s	Manual trigger	In progres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Dashboards
Runs
Pipeline runs
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Change Data Capture (previ...
Runtimes & sessions
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Alerts & metrics
Triggered
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Rerun
Cancel options
Refresh
Edit columns
List
Gantt
Filter by run ID or name
Chennai, Kolkata, Mu... : Last 24 hours
Pipeline name : All
Status : All
Runs : Latest runs
Triggered by : All
Add filter
Copy filters
Export to CSV

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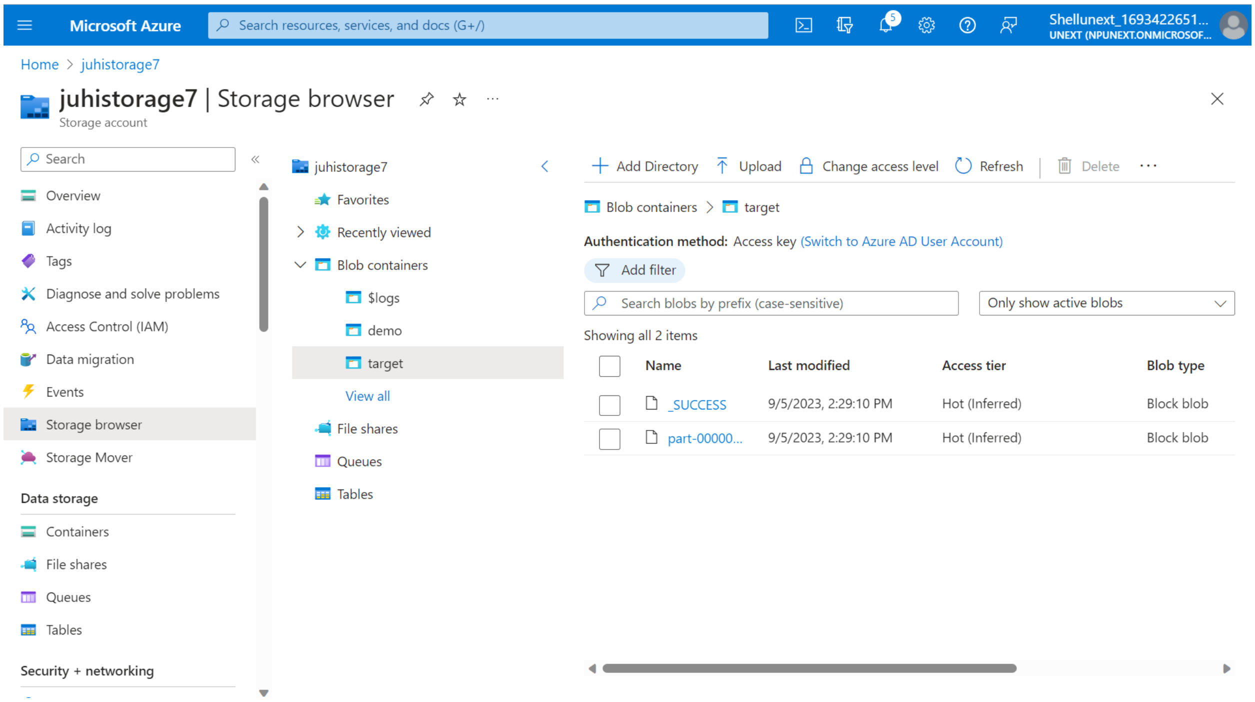
Pipeline runs

Showing 1 - 1 items

Last refreshed 0 minutes ago

e name	Run start	Run end	Duration	Triggered by	Status
line	9/5/2023, 2:25:44 PM	9/5/2023, 2:29:15 PM	3m 31s	Manual trigger	✓ Succeeded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UNEXT (NPUNEXT.ONMICROSOF...
Home > juhistorage7
juhistorage7 | Storage browser
Storage account
Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Data storage
Containers
File shares
Queues
Tables
Security + networking
juhistorage7
Favorites
Recently viewed
Blob containers
$logs
demo
target
View all
File shares
Queues
Tables
Add Directory
Upload
Change access level
Refresh
Delete
Blob containers > target
Add filter
Search blobs by prefix (case-sensitive)
Only show active blobs

Authentication method: Access key (Switch to Azure AD User Account)

Showing all 2 items

☐	Name	Last modified	Access tier	Blob type
☐	_SUCCESS	9/5/2023, 2:29:10 PM	Hot (Inferred)	Block blob
☐	part-00000...	9/5/2023, 2:29:10 PM	Hot (Inferred)	Block blob

Puzzle answer:

1. Data Integration
2. Complex
3. Pipeline
4. Dataset
5. Trigger
6. Parameters
7. System variables
8. ETL and ELT
9. Pipeline
10. Pipelines