

06/09/2023

Understanding ADF Components

Authoring Tools

Data Flow

Linked Services

Datasets

Pipelines

Activities

Triggers

Integration Runtimes

Debugging and Monitoring

Data Movement and Transformation Activities

Copy data flow activity in ADF

Control Flow Activity

Get Metadata Activity

Filter Activity

If Activity

Append Activity

Wait Activity

ForEach Loop Activity

Lookup Activity

1. If else activity

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The 'Basics' tab is selected. Under 'Resource group', 'azurergr' is chosen from a dropdown. In the 'Instance details' section, the 'Storage account name' is 'day7storage'. The 'Region' is set to '(US) East US'. Under 'Performance', 'Standard' is selected as the recommended option for most scenarios. Under 'Redundancy', 'Geo-redundant storage (GRS)' is chosen. At the bottom, there are 'Review' and 'Next : Advanced >' buttons.

The screenshot shows the 'Overview' page for a deployment named 'day7storage_1693976628284'. The deployment status is 'Deployment succeeded'. Deployment details include: Deployment name: day7storage_1693...; Start time: 9/6/2023, 10:34:01 AM; Subscription: npunext-1680261963256; Resource group: azurergr. There are tabs for 'Overview', 'Inputs', 'Outputs', and 'Template'. A 'Deployment details' section is expanded, showing 'Deployment name: day7storage_1693...', 'Start time: 9/6/2023, 10:34:01 AM', 'Subscription: npunext-1680261963256', and 'Resource group: azurergr'. A 'Next steps' section is collapsed. A 'Go to resource' button is present. On the right side, there are promotional cards for 'Cost Management', 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'.

Microsoft Azure Search resources, services, and docs (G+/-)

Home > day7storage

day7storage | Storage browser

Storage account

Search Add container Upload Refresh Delete Change access level ...

Overview Favorites Recently viewed Blob containers

Activity log Search containers by prefix Only show active containers

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Blob containers

\$logs

demo

View all

File shares

Queues

Tables

Name Last modified Anonymous access level Lease state

\$logs	9/6/2023, 10:34:37 AM	Private	Available
demo	9/6/2023, 11:12:03 AM	Container	Available

Microsoft Azure Search resources, services, and docs (G+/-)

Home > day7storage

day7storage | Storage browser

Storage account

Search Add Directory Upload Change access level Refresh Delete ...

Overview Favorites Recently viewed Blob containers > demo

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Blob containers

\$logs

demo

View all

File shares

Queues

Tables

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

Add filter

Search blobs by prefix (case-sensitive) Only show active blobs

Name Last modified Access tier Blob type

Query 1.csv	9/6/2023, 11:12:59 AM	Hot (Inferred)	Block blob
-------------	-----------------------	----------------	------------

Microsoft Azure | Data Factory > juhi-datafactory Search factory and documentation

Data factory
juhi-datafactory

New <

Ingest: Copy data at scale once or on a schedule.

Orchestrate: Code-free data pipelines.

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

Transform data: Transform your data using data flows.

Recent resources

Name	Type	Last opened by you
dataflow3	Data flow	Yesterday at 4:25 PM
ptocsv	Pipeline	Yesterday at 3:37 PM

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Data Factory < Validate all Publish all

General
Factory settings
Connections
Linked services
Integration runtimes
Microsoft Purview
Source control
Git configuration
ARM template
Author
Triggers
Global parameters
Data flow libraries
Security
Credentials
Customer managed key
Outbound rules

Linked services

Linked service defines the connection information to a data store.

+ New

Filter by name Annotations

Showing 1 - 5 of 5 items

Name	Type
AzureBlobStorage1	Azure Blob Storage
AzureBlobStorage2	Azure Blob Storage
AzureBlobStorage3	Azure Blob Storage
AzureBlobStorage4	Azure Blob Storage
AzureBlobStorage5	Azure Blob Storage

New linked service

Azure Blob Storage Learn more

Connect via integration runtime *

Authentication type

Connection string Azure Key Vault

Account selection method From Azure subscription Enter manually

Azure subscription

Storage account name *

Additional connection properties + New

Test connection To linked service To file path

Annotations

Creating... Back Test connection Cancel

Microsoft Azure | Data Factory | juhi-data | Search factory and documentation

Validate all Publish all

Factory Resources

- Pipelines 3
- Change Data Capture (preview) 0
- Datasets 8
- Data flows 3
- Power Query 0

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

All Azure Database File Generic protocol NoSQL Services and apps

Azure Blob Storage	Azure Cosmos DB for MongoDB	Azure Cosmos DB for NoSQL
Azure Data Explorer (Kusto)	Azure Data Lake Storage Gen1	Azure Data Lake Storage Gen2

Continue Cancel

Microsoft Azure | Data Factory | juhi-data | Search factory and documentation

Validate all Publish all

Factory Resources

- Pipelines 3
- Change Data Capture (preview) 0
- Datasets 8
- Data flows 3
- Power Query 0

Select format

Choose the format type of your data

Avro	Binary	DelimitedText
Excel	JSON	ORC
XML		

Continue Back Cancel

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Validate all Publish all

Factory Resources

- Pipelines 3
- Change Data Capture (preview) 0
- Datasets 8
- Data flows 3
- Power Query 0

Set properties

Name: Query1

Linked service *: day7_LS

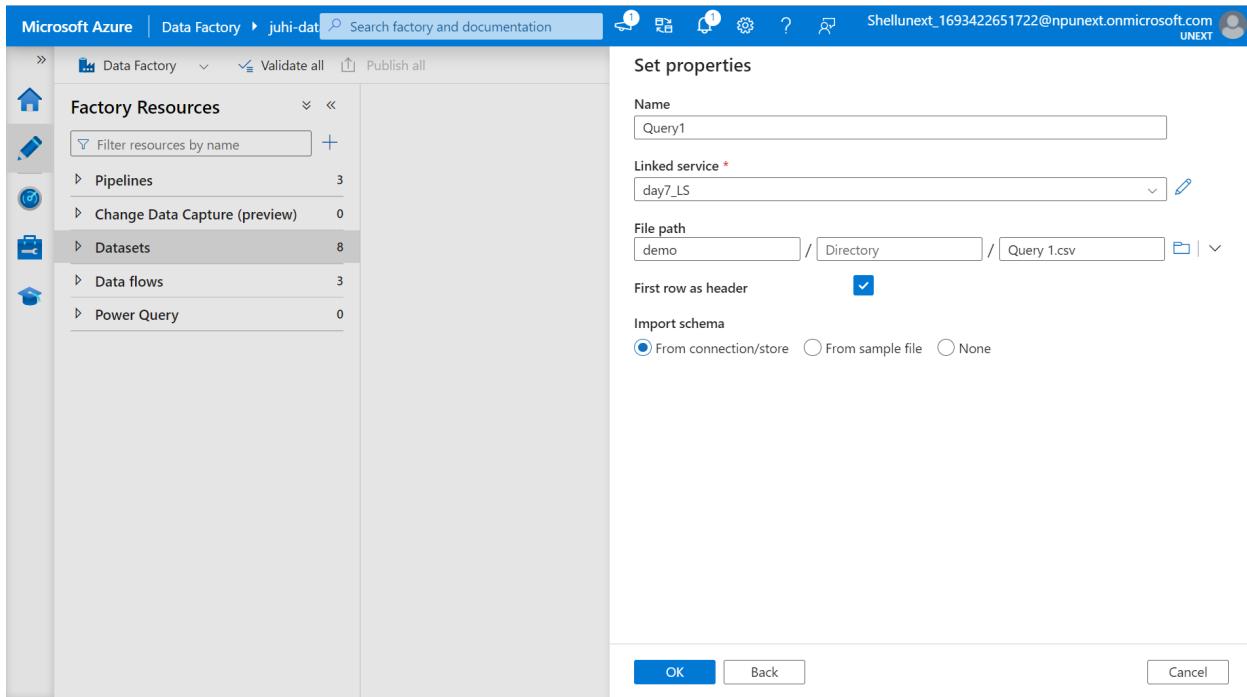
File path: demo / Directory / Query 1.csv

First row as header:

Import schema:

From connection/store From sample file None

OK Back Cancel



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Validate all Publish all

Factory Resources

- Pipelines 4
 - adfpipeline
 - pipeline2
 - day7_pipeline
 - ptocsv
- Change Data Capture (preview) 0
- Datasets 9
 - DelimitedText1
 - DelimitedText2
 - DelimitedText3
 - Json1
 - Json2
 - Json3
 - Parquet1
 - Parquet2
 - Query1

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Properties

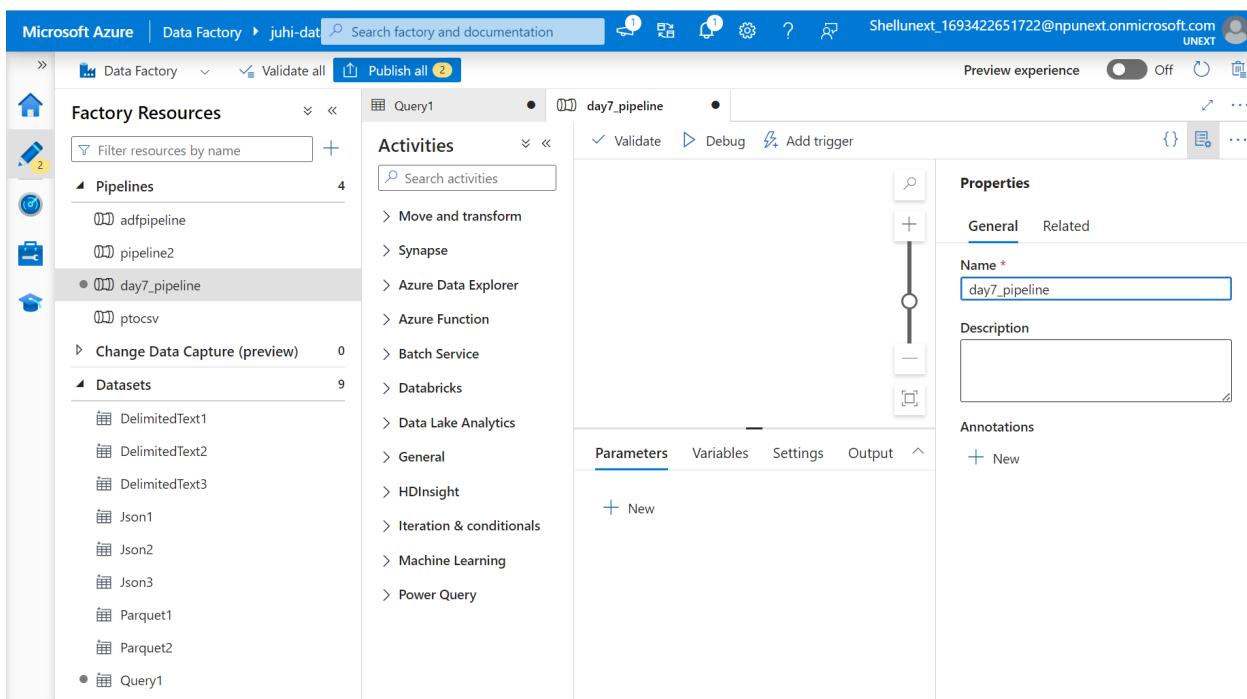
General Related

Name *: day7_pipeline

Description

Annotations

Parameters Variables Settings Output



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Validate all Publish all 2

Preview experience Off

Factory Resources

Pipelines (4)

- adfpipeline
- pipeline2
- day7_pipeline
- ptocsv

Change Data Capture (preview) (0)

Datasets (9)

- DelimitedText1
- DelimitedText2
- DelimitedText3
- Json1
- Json2
- Json3
- Parquet1
- Parquet2
- Query1

Activities

Query1 day7_pipeline

Validate Debug Add trigger

Parameters Variables Settings Output

New Delete

Name	Type	Default value
copytoOutput1	String	true
Output1Folder	String	Output1
Output2Folder	String	Output2

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Validate all Publish all 2

Shellunext_1693422651722@npunext.onmicrosoft.com UNEXT

Factory Resources

Pipelines (4)

- adfpipeline
- pipeline2
- day7_pipeline
- ptocsv

Change Data Capture (preview) (0)

Datasets (9)

- DelimitedText1
- DelimitedText2
- DelimitedText3
- Json1
- Json2
- Json3
- Parquet1
- Parquet2
- Query1

Activities

Query1 day7_pipeline

Set properties

Name: If_condition_dataset

Linked service: day7_LS

File path: target / Directory / File name

First row as header:

Import schema:

From connection/store From sample file None

OK Back Cancel

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Publish all 3 Preview experience Off

Factory Resources

Filter resources by name

Pipelines

- adfpipeline
- pipeline2
- day7_pipeline
- ptocs

Change Data Capture (preview) 0

Datasets

- DelimitedText1
- DelimitedText2
- DelimitedText3
- If_condition_dataset
- Json1
- Json2
- Json3
- Parquet1
- Parquet2

Properties

General Related

Name * If_condition_dataset

Description

Annotations

CSV

DelimitedText If_condition_dataset

Connection Schema Parameters

New Delete

Name	Type	Default value
OutputFolder	String	Value

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Publish all 3 Preview experience Off

Factory Resources

Filter resources by name

Pipelines

- adfpipeline
- pipeline2
- day7_pipeline
- ptocs

Change Data Capture (preview) 0

Datasets

- DelimitedText1
- DelimitedText2
- DelimitedText3
- If_condition_dataset
- Json1
- Json2
- Json3
- Parquet1
- Parquet2

Connection Schema Parameters

Linked service * day7_LS

Test connection Edit New Learn more

File path * target / directory / File name Browse

Add dynamic content [Alt+Shift+D]

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (\r,\n, or \v\n)

Encoding Default(UTF-8)

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Validate all Publish all

Factory Resources

Pipelines: adfpipeline, pipeline2, day7_pipeline, ptocsv

Change Data Capture (preview): 0

Datasets:

- DelimitedText1, DelimitedText2, DelimitedText3
- If_condition_dataset (selected)
- Json1, Json2, Json3
- Parquet1, Parquet2

Query1 - day7_pipeline - If_condition_dataset

Connection Schema Parameters

Linked service: day7_LS

File path: target / @dataset().OutputFolder / File name

Compression type: Select...

Column delimiter: Comma (,)

Row delimiter: Default (\r\n, or \n)

Encoding: Default(UTF-8)

Quote character: Double quote ("")

Preview experience: Off

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Validate all Publish all

Factory Resources

Pipelines: adfpipeline, pipeline2, day7_if_pipeline, ptocsv

Change Data Capture (preview): 0

Datasets:

- DelimitedText1, DelimitedText2, DelimitedText3
- If_condition_dataset (selected)
- Json1, Json2, Json3
- Parquet1, Parquet2

Query1 - day7_if_pipeline - If_condition_dataset

Activities

Validate, Debug, Add trigger

If Condition

True: No activities

False

General Activities (0) User properties

Name: If Condition1

Description

Activity state (preview): Active (radio button selected)

Microsoft Azure | Data Factory > juhi-dat Search factory and documentation

Validate all Publish all

Query1 day7_if_pipeline If_condition_dataset

If Condition

If Condition1

True: No activities

False:

Activities (0)

Expression * ⓘ This property should be parameterized.

Add dynamic content [Alt+Shift+D]

Case	Activity
True	No activities
False	No activities

Parameters System variables Functions Variables

Search

Output1Folder
Output2Folder
copytoOutput1

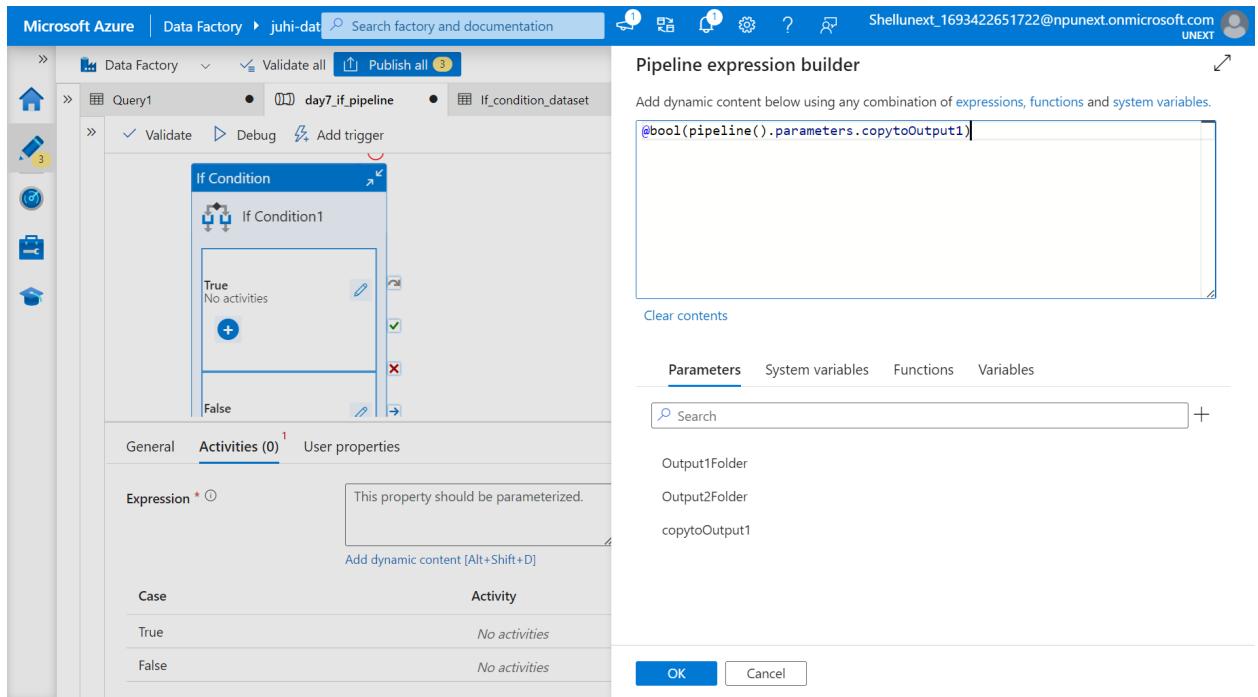
OK Cancel

Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables.

```
@bool(pipeLine().parameters.copytoOutput1)
```

Clear contents



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Validate all Publish all

Query1 day7_if_pipeline If_condition_dataset

Activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDIInsight

Iteration & conditionals

Filter

ForEach

day7_if_pipeline > If Condition1 > True activities

Copy data

Copy data1

General Source 1 Sink 1 Mapping Settings User properties

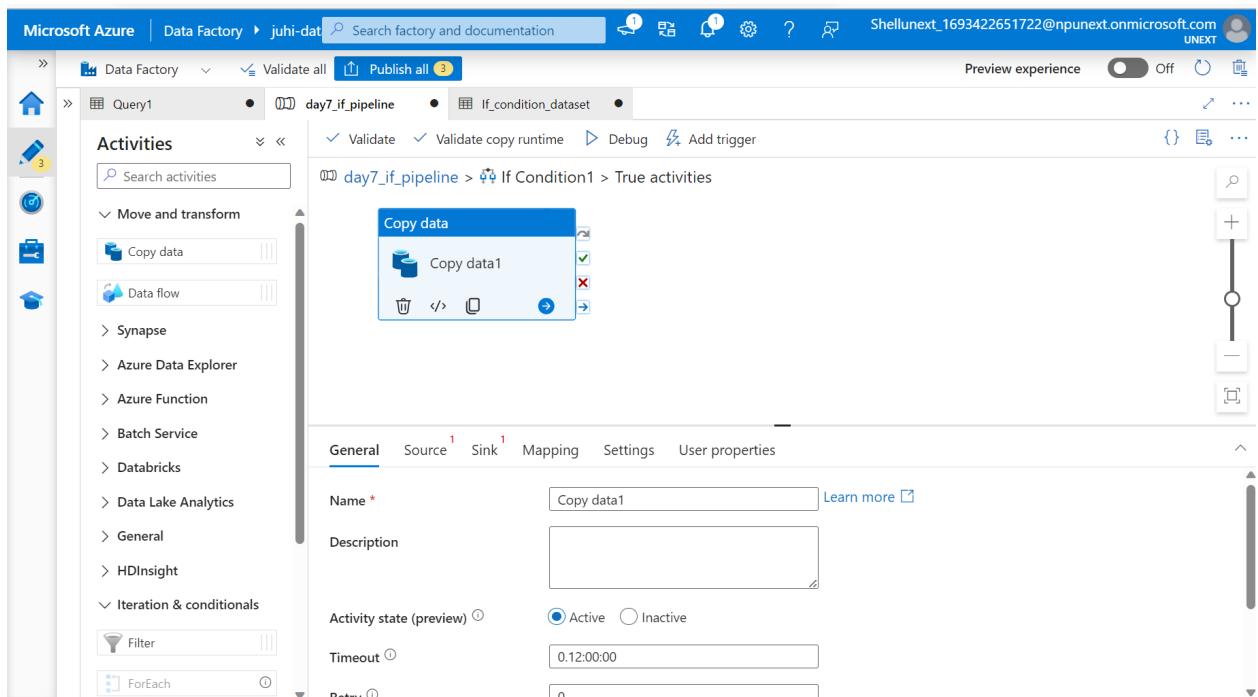
Name * Copy data1 Learn more ⓘ

Description

Activity state (preview) Ⓛ Active Inactive

Timeout ⓘ 0:12:00:00

Retry ⓘ 0



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Validate all Publish all 3

Preview experience Off

Data Factory Activities Query1 day7_if_pipeline If Condition1 > True activities

Copy data

Copy data1

Source dataset * Query1

File path type File path in dataset

Start time (UTC)

End time (UTC)

Filter Recursively

Enable partition discovery

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Validate all Publish all 3

Preview experience Off

Data Factory Activities Query1 day7_if_pipeline If Condition1 > True activities

Copy data

Copy data1

Sink dataset * If_condition_dataset

Dataset properties

Name	Type
OutputFolder	string

Copy behavior Select...

Max concurrent connections

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Validate all Publish all 3 Preview experience Off

Activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Filter

ForEach

day7_if_pipeline If Condition1 > False activities

Copy data

Copy data2

General Source Sink Mapping Settings User properties

Sink dataset * If_condition_dataset Open + New Learn more

Dataset properties

Name	Type
OutputFolder	string

Copy behavior Select...

Max concurrent connections

This screenshot shows the Azure Data Factory pipeline editor. A 'Copy data' activity named 'Copy data2' is selected within a 'day7_if_pipeline' pipeline. The 'Sink' tab is active, showing a 'Sink dataset' of 'If_condition_dataset'. The 'Value' field for 'OutputFolder' is set to '@pipeline().parameters.Output2Folder'. Below this, 'Copy behavior' and 'Max concurrent connections' settings are visible.

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Validate all Publishing 3

Activities

Move and transform

Copy data

Data flow

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Filter

ForEach

day7_if_pipeline If Condition1

Validate Debug Add trigger

Publish all

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

Pending changes (3)

NAME	CHANGE	EXISTING
day7_if_pipeline	(New)	-
Query1	(New)	-
If_condition_dataset	(New)	-

General Activities (2) User properties

Expression @bool(pi

Case

True

False

Publish Cancel

This screenshot shows the 'Publish all' dialog in the Azure Data Factory pipeline editor. It lists pending changes: 'day7_if_pipeline' (New), 'Query1' (New), and 'If_condition_dataset' (New). The 'Publish' button is highlighted at the bottom.

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Publishing 1

Preview experience Off

Factory Resources

- Pipelines** 4
 - adfpipeline
 - pipeline2
 - day7_if_pipeline
 - ptocsv
- Change Data Capture (preview)** 0
- Datasets** 10
 - DelimitedText1
 - DelimitedText2
 - DelimitedText3
 - If_condition_dataset
 - Json1
 - Json2
 - Json3
 - Parquet1
 - Parquet2

Activities

- Query1
- day7_if_pipeline
- If_condition_dataset

Validate | Debug | Add trigger

Trigger now Trigger on-demand run of the last published pipeline

New/Edit

```

graph TD
    Start(( )) --> If{If}
    If -- True --> Copy1[Copy data1]
    Copy1 --> End(( ))
    If -- False --> End
  
```

True

False

Parameters | Variables | Settings | Output

Name	Type	Default value
copytoOutput1	String	false
Output1Folder	String	Output1
Output2Folder	String	Output2

Microsoft Azure | Data Factory > juhi-dat | Search factory and documentation

Shellunext_1693422651722@npunext.onmicrosoft.com UNEXT

Runs

- Pipeline runs**
- Triggered runs
- Change Data Capture (preview...)
- Runtimes & sessions
- Integration runtimes
- Data flow debug
- Notifications
- Alerts & metrics

Pipeline runs

Triggered | 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

Showing 1 - 8 items | Last refreshed 0 minutes ago

Pipeline name ↑↓	Run start ↑↓	Run end ↑↓	Duration	Triggered by	St
day7_if_pipeline	9/6/2023, 12:10:16 PM	9/6/2023, 12:10:31 PM	15s	Manual trigger	✓
day7_if_pipeline	9/6/2023, 12:08:00 PM	9/6/2023, 12:08:13 PM	13s	Manual trigger	✓
ptocsv	9/5/2023, 3:26:19 PM	9/5/2023, 3:30:34 PM	4m 16s	Manual trigger	✓
pipeline2	9/5/2023, 3:01:11 PM	9/5/2023, 3:15:51 PM	14m 40s	Manual trigger	✓
pipeline2	9/5/2023, 3:00:38 PM	9/5/2023, 3:04:15 PM	3m 38s	Manual trigger	✗
pipeline2	9/5/2023, 2:50:45 PM	9/5/2023, 2:53:54 PM	3m 10s	Manual trigger	✗
pipeline2	9/5/2023, 2:44:43 PM	9/5/2023, 2:48:17 PM	3m 34s	Manual trigger	✗
adfpipeline	9/5/2023, 2:25:44 PM	9/5/2023, 2:29:15 PM	3m 31s	Manual trigger	✓

2. For each

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (adfpipeline, day7_if_pipeline, pipeline2, forEach_Pipeline, ptocsv) and 'Datasets' (dataset, DelimitedText3, If_condition_dataset, Json1, Json2, Json3, Parquet1, Parquet2). The 'dataset' item under Datasets is selected. The main panel displays the 'dataset' configuration for the 'forEach_Pipeline'. The 'Parameters' tab is active, showing a single parameter: 'FolderName' of type 'String' with a default value of 'Value'. The 'Connection' and 'Schema' tabs are also visible.

This screenshot shows the same Microsoft Azure Data Factory interface as the previous one, but with different configuration details for the 'dataset'. The 'Parameters' tab is still active, but now the 'File path' field contains the expression '@dataset().FolderName'. The 'Connection' tab is selected, showing the 'day7_LS' linked service assigned to the dataset. Other settings like Compression type, Column delimiter, Row delimiter, Encoding, and Quote character are also visible.

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Validate all Publish all 5 Preview experience Off

Activities

ForEach

Activities No activities

Name * ForEach1

Description

Activity state (preview) Active

This screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'ForEach' activity is selected, named 'ForEach1'. The 'Activities' section of the editor shows a single 'No activities' entry. The 'General' tab is active, displaying the name 'ForEach1' and an 'Activity state (preview)' switch set to 'Active'. The left sidebar lists various activity types under 'Iteration & conditionals'.

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Validate all Publish all 5 Preview experience Off

Activities

ForEach

Activities No activities

Parameters

+ New Delete

Name	Type	Default value
OutputFolder	Array	["output_1", "output_2", "outp]

This screenshot shows the 'Parameters' tab for the 'ForEach' activity. It defines a parameter named 'OutputFolder' of type 'Array' with a default value of '["output_1", "output_2", "outp]'. The 'Parameters' tab is active, and the 'General' tab is visible above it. The left sidebar lists various activity types under 'Iteration & conditionals'.

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Validate all Publish all 5 Preview experience Off

Activities

ForEach

Activities No activities

General Settings Activities (0) User properties

Sequential

Batch count

Items @pipeline().parameters.OutputFolder

This screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'ForEach' activity is selected, which contains an empty 'Activities' section. The 'Settings' tab is active, showing options for Sequential execution, a Batch count input field, and an 'Items' input field containing the expression '@pipeline().parameters.OutputFolder'. The left sidebar lists various activity types under 'Iteration & conditionals'.

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Validate all Publish all 5 Preview experience Off

Activities

Copy data

Copy data1

General Source Sink Mapping Settings User properties

Sink dataset *

Dataset properties

Name	Type
FolderName	string

Copy behavior

Max concurrent connections

This screenshot shows the Microsoft Azure Data Factory pipeline editor. A 'Copy data' activity is selected, with its configuration pane open. The 'Sink' tab is active, showing a 'Sink dataset' dropdown set to 'dataset' and a 'Dataset properties' table with a single row for 'FolderName' with the value '@item()'. The left sidebar lists various move and transform activities like 'Copy data' and 'Data flow'.

The screenshot shows the Microsoft Azure Storage browser interface. On the left, there's a sidebar with navigation links like Home, Storage account, Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser (which is selected), Storage Mover, Data storage (Containers, File shares, Queues, Tables), and Security + networking. The main area shows a 'day7storage' storage account. Under 'Blob containers', 'target' is selected. It contains three items: 'output_1', 'output_2', and 'output_3'. There are buttons for Add Directory, Upload, Change access level, Refresh, Delete, and more.

3. filter

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists Pipelines (day7_if_pipeline, forEach_Pipeline, filter_pipeline), Datasets (dataset, DelimitedText3, Filter_dataset, If_condition_dataset, Query1), Data flows, and Power Query. The 'filter_pipeline' pipeline is selected. The main area shows the 'Activities' section with a list of available activities: Move and transform, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The 'filter_dataset' activity is currently selected. There are buttons for Validate, Debug, and Add trigger.

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Validate all Publish all

Preview experience Off

Factory Resources

- Pipelines
 - day7_if_pipeline
 - forEach_Pipeline
 - filter_pipeline
- Datasets
 - dataset
 - DelimitedText3
 - Filter_dataset
 - If_condition_dataset
 - Query1
- Data flows
- Power Query

Activities

- Execute SSIS package
- Fail
- Get Metadata
- Lookup
- Stored procedure
- Script
- (X) Set variable
- Validation
- Web
- WebHook
- Wait
- HDInsight

filter_pipeline

Get Metadata

Get Metadata1

Name: Get Metadata1

Description:

Activity state (preview): Active

Timeout: 0.12:00:00

Retries: 0

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Validate all Publish all

Preview experience Off

Factory Resources

- Pipelines
 - day7_if_pipeline
 - forEach_Pipeline
 - filter_pipeline
- Datasets
 - dataset
 - DelimitedText3
 - Filter_dataset
 - If_condition_dataset
 - Query1
- Data flows
- Power Query

Activities

- Execute SSIS package
- Fail
- Get Metadata
- Lookup
- Stored procedure
- Script
- (X) Set variable
- Validation
- Web
- WebHook
- Wait
- HDInsight

filter_pipeline

Get Metadata

Get Metadata1

Name: Get Metadata1

Description:

Activity state (preview): Active

Timeout: 0.12:00:00

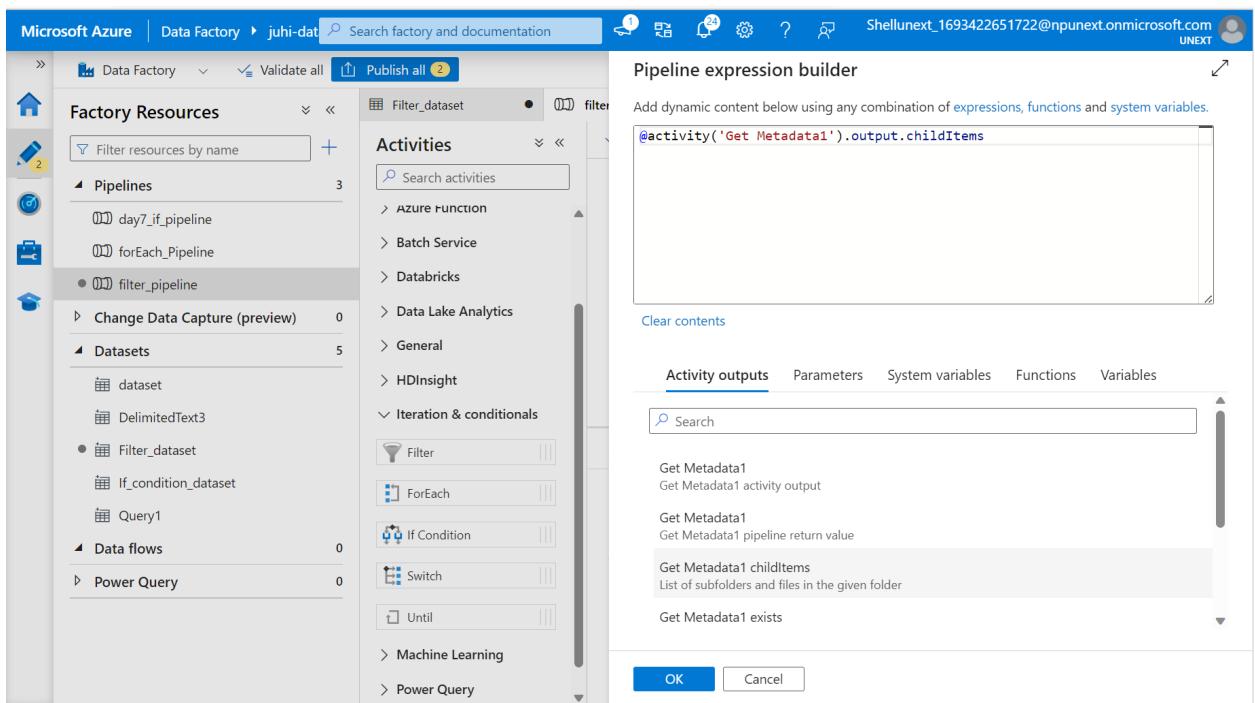
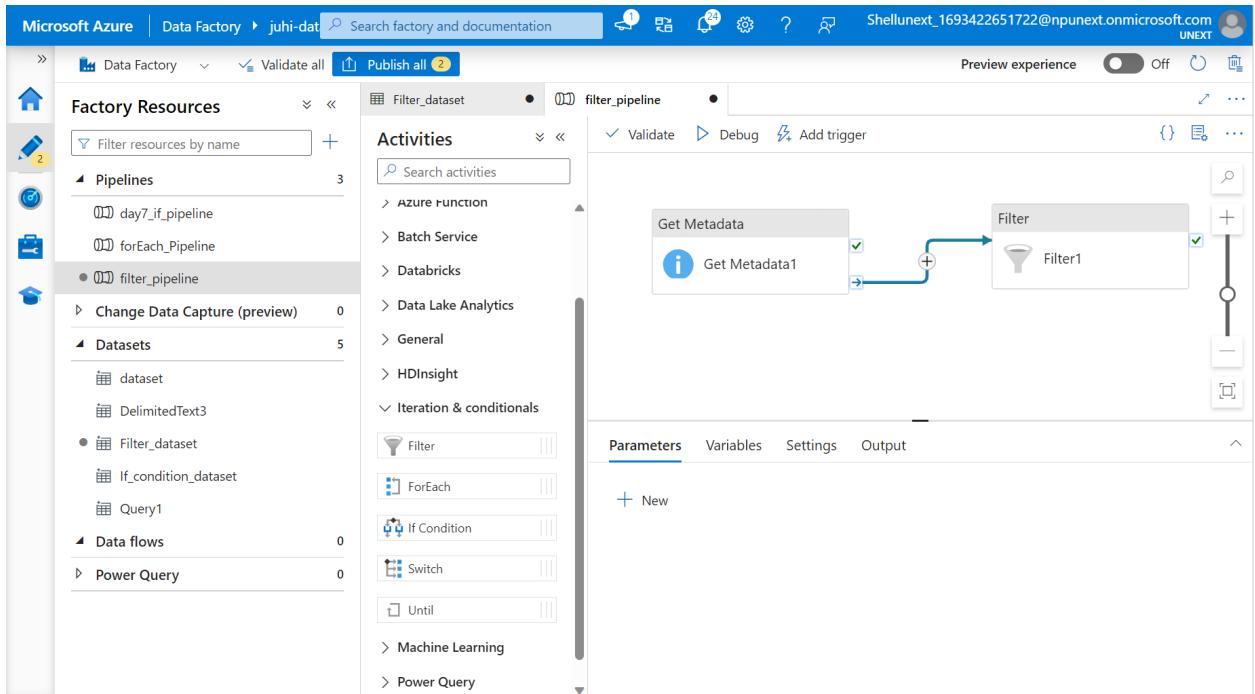
Retries: 0

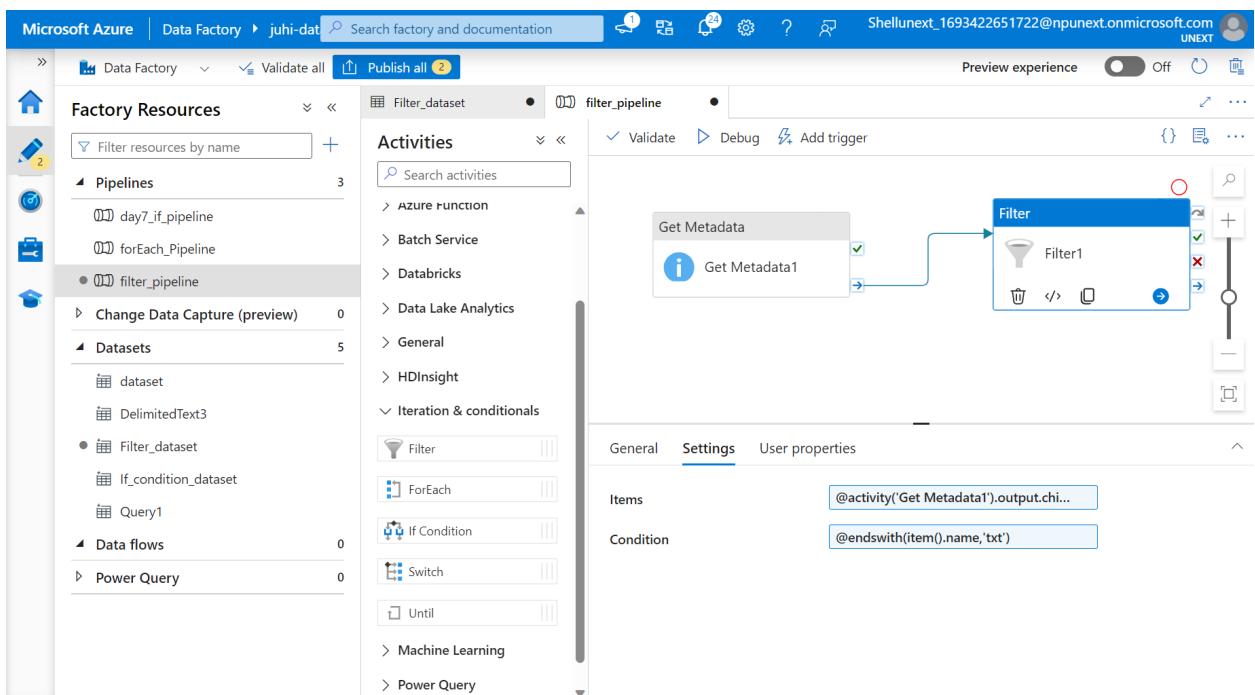
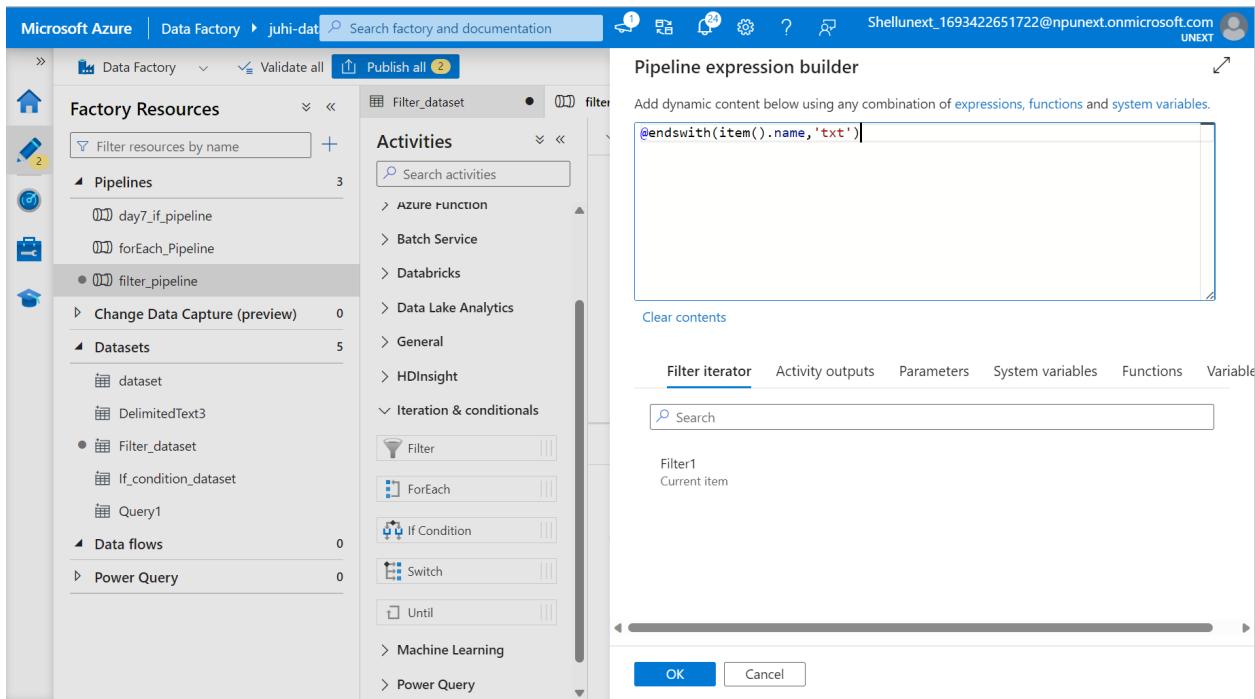
General Settings User properties

Dataset: Filter_dataset

Field list: Child items

New Delete Argument





Microsoft Azure | Data Factory | juhi-dat | Search factory and documentation

Publish all 2 Preview experience Off

Factory validation output

Your factory has been validated.
No errors were found.

This screenshot shows the Microsoft Azure Data Factory validation output. It displays a summary message: "Your factory has been validated." followed by "No errors were found." The interface includes a search bar at the top, navigation tabs for "Publish all" and "Preview experience", and a status indicator for "Off". On the left, there's a sidebar titled "Factory Resources" listing Pipelines, Datasets, and Data flows. The main workspace shows a pipeline named "filter_pipeline" with a single activity: "Get Metadata". A "Settings" tab is open below the activity.

Microsoft Azure | Data Factory | juhi-dat | Search factory and documentation

Publishing 2 Preview experience

Publish all

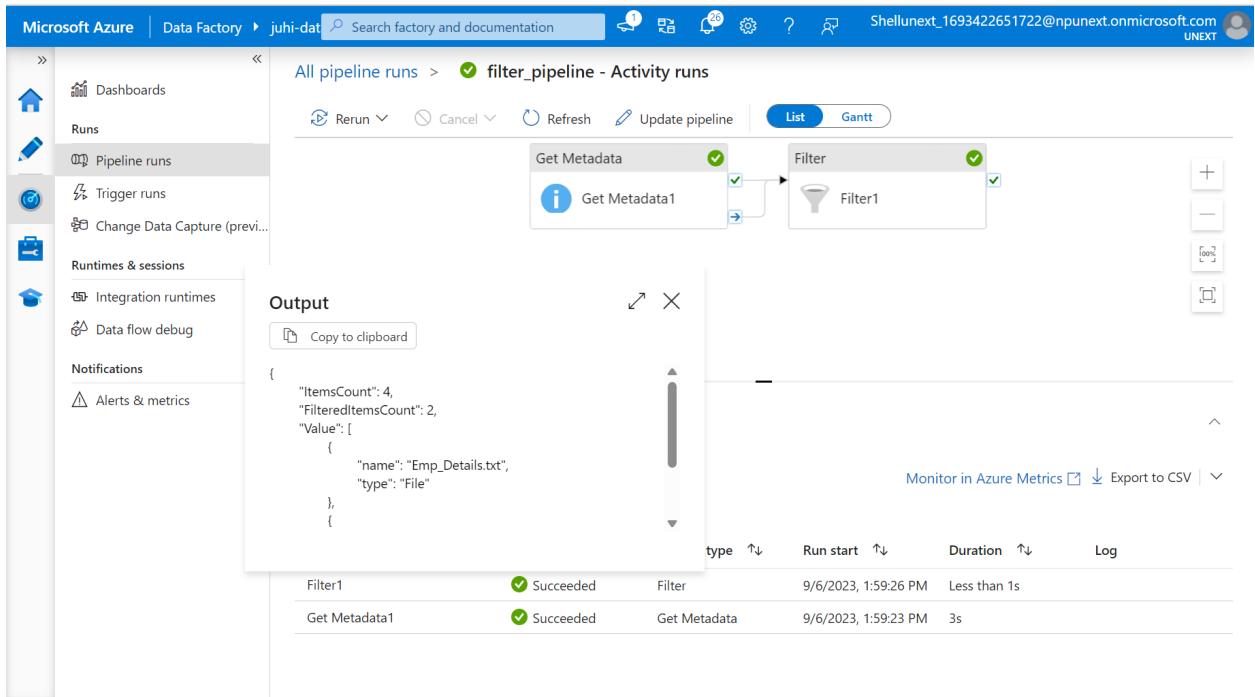
You are about to publish all pending changes to the live environment. [Learn more]

Pending changes (2)

NAME	CHANGE	EXISTING
filter_pipeline	(New)	-
Filter_dataset	(New)	-

Published Cancel

This screenshot shows the Microsoft Azure Data Factory "Publish all" dialog. It informs the user that they are about to publish all pending changes to the live environment. It lists two pending changes: "filter_pipeline" and "Filter_dataset", both marked as "(New)". At the bottom, there are "Publish" and "Cancel" buttons.



4. Variable

Activities

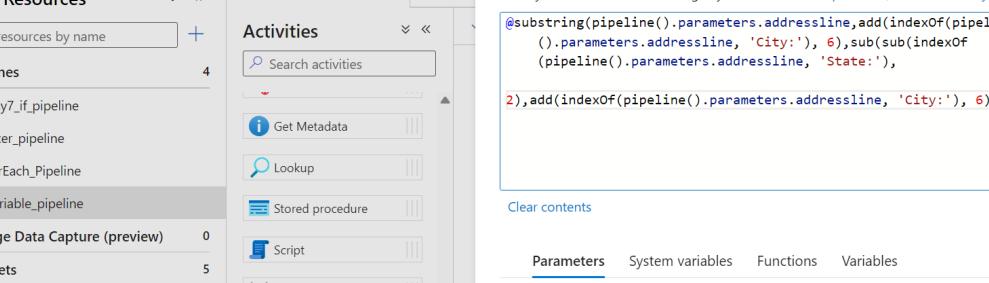
- Move and transform
- Synapse
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDI insight
- Iteration & conditionals
- Machine Learning
- Power Query

Parameters

Name	Type	Default value
addressline	String	Value

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar lists resources: Pipelines (day7_if_pipeline, filter_pipeline, forEach_Pipeline, variable_pipeline), Datasets (dataset, DelimitedText3, Filter_dataset, If_condition_dataset, Query1), and Data flows (Power Query). The main area is titled 'variable_pipeline' under 'Activities'. It contains a list of activities: Get Metadata, Lookup, Stored procedure, Script, Set variable, Validation, Web, WebHook, Wait, HDInsight, Iteration & conditionals, and Machine Learning. A 'Set variable' activity is selected, showing its configuration pane. The 'Variables' tab is active, displaying a table with one row:

Name	Type	Default value
cityName	String	Value



The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (containing 'day7_if_pipeline', 'filter_pipeline', 'forEach_Pipeline', and 'variable_pipeline'), 'Datasets' (containing 'dataset', 'DelimitedText3', 'Filter_dataset', 'If_condition_dataset', and 'Query1'), and 'Data flows' (empty). The 'variable_pipeline' pipeline is selected. The main area displays the 'variable_pipeline' pipeline configuration. The 'Activities' section shows a list of available activities: Get Metadata, Lookup, Stored procedure, Script, Set variable, Validation, Web, WebHook, Wait, HDInsight, Iteration & conditionals, and Machine Learning. A code editor window titled 'variable_pipeline' contains the following expression:

```
@substring(pipeline().parameters.addressline,add(indexOf(pipeline().parameters.addressline,'City:'), 6),sub(sub(indexOf(pipeline().parameters.addressline, 'State:'), 2),add(indexOf(pipeline().parameters.addressline, 'City:'), 6)))
```

Below the code editor are tabs for 'Parameters', 'System variables', 'Functions', and 'Variables'. The 'addressline' variable is listed under 'Variables'. At the bottom are 'OK' and 'Cancel' buttons.

Microsoft Azure | Data Factory > juhi-data Search factory and documentation

Publish all 1 Preview experience Off

Factory Resources

- Pipelines (4)
 - day7_if_pipeline
 - filter_pipeline
 - forEach_Pipeline
 - variable_pipeline
- Datasets (5)
 - dataset
 - DelimitedText3
 - Filter_dataset
 - If_condition_dataset
 - Query1
- Data flows (0)
- Power Query (0)

Activities

- Get Metadata
- Lookup
- Stored procedure
- Script
- (x) Set variable
- Validation
- Web
- WebHook
- Wait
- > HDInsight
- > Iteration & conditionals
- > Machine Learning

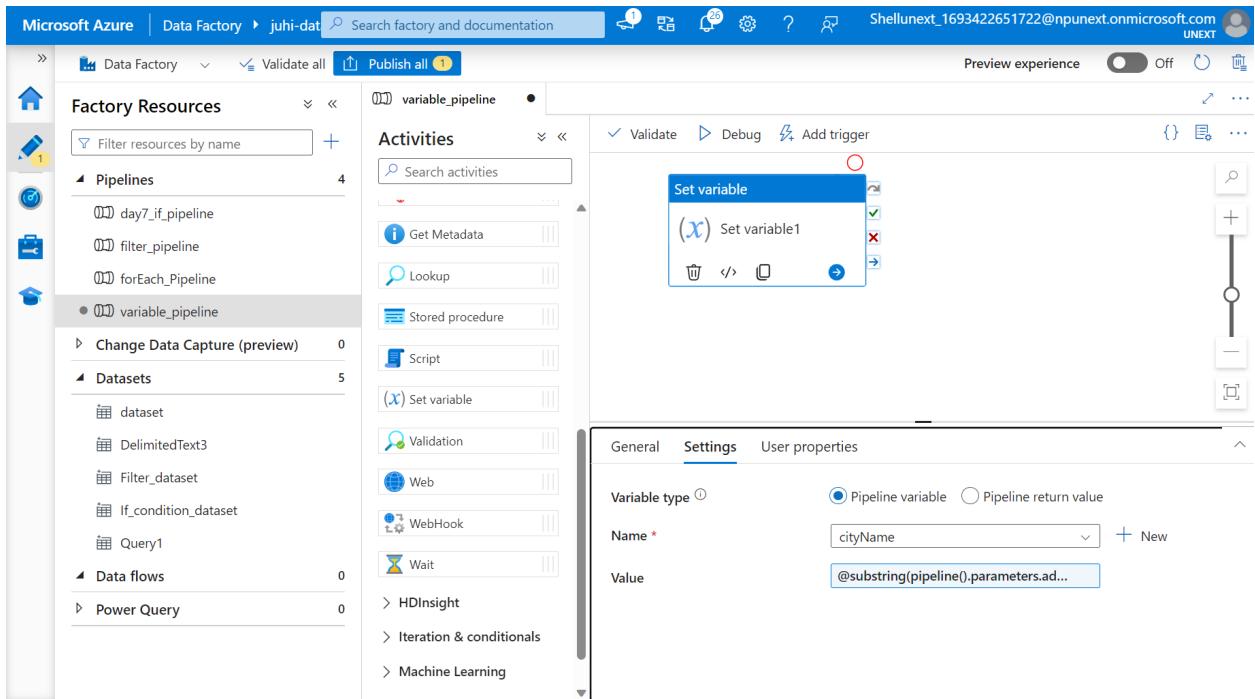
Set variable (x) Set variable1

General Settings User properties

Variable type Pipeline variable Pipeline return value

Name * cityName

Value @substring(pipeline().parameters.ad...



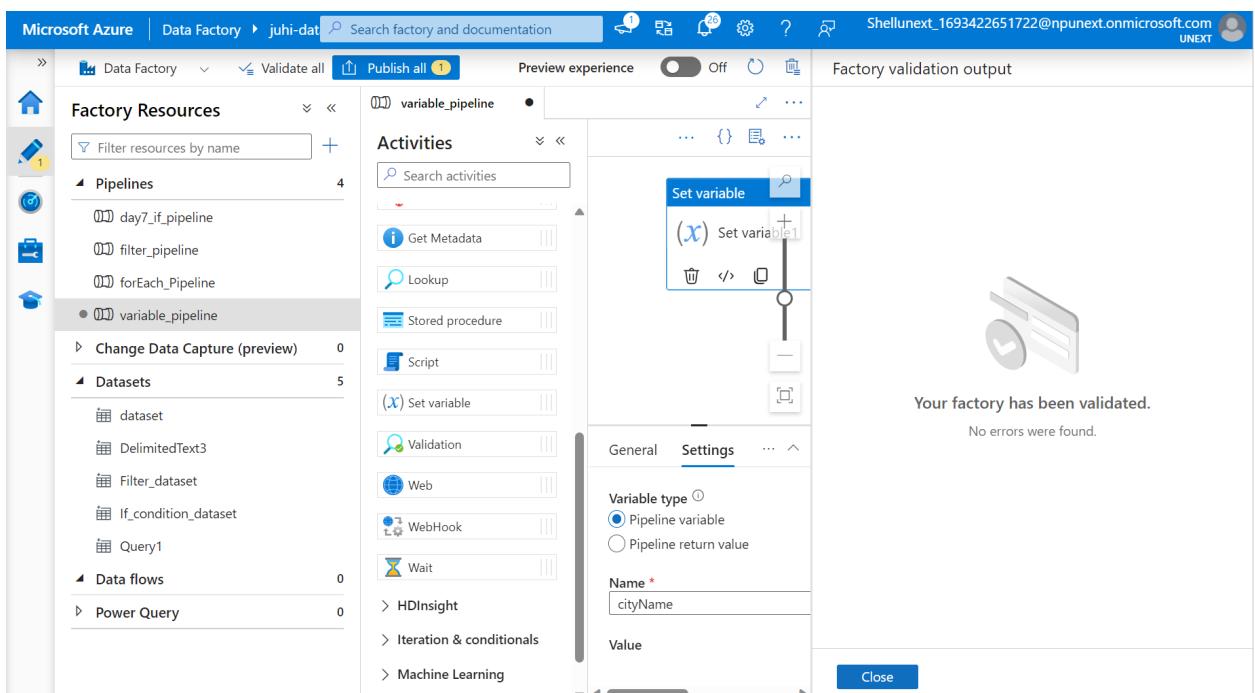
Microsoft Azure | Data Factory > juhi-data Search factory and documentation

Publish all 1 Preview experience Off

Factory validation output

Your factory has been validated.
No errors were found.

Close



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Validate all Publishing 1

Factory Resources

- Pipelines (4)
 - day7_if_pipeline
 - filter_pipeline
 - forEach_Pipeline
 - variable_pipeline
- Datasets (5)
 - dataset
 - DelimitedText3
 - Filter_dataset
 - If_condition_dataset
 - Query1
- Data flows (0)
- Power Query (0)

Activities

- Get Metadata
- Lookup
- Stored procedure
- Script
- (x) Set variable
- Validation
- Web
- WebHook
- Wait

variable_pipeline (New)

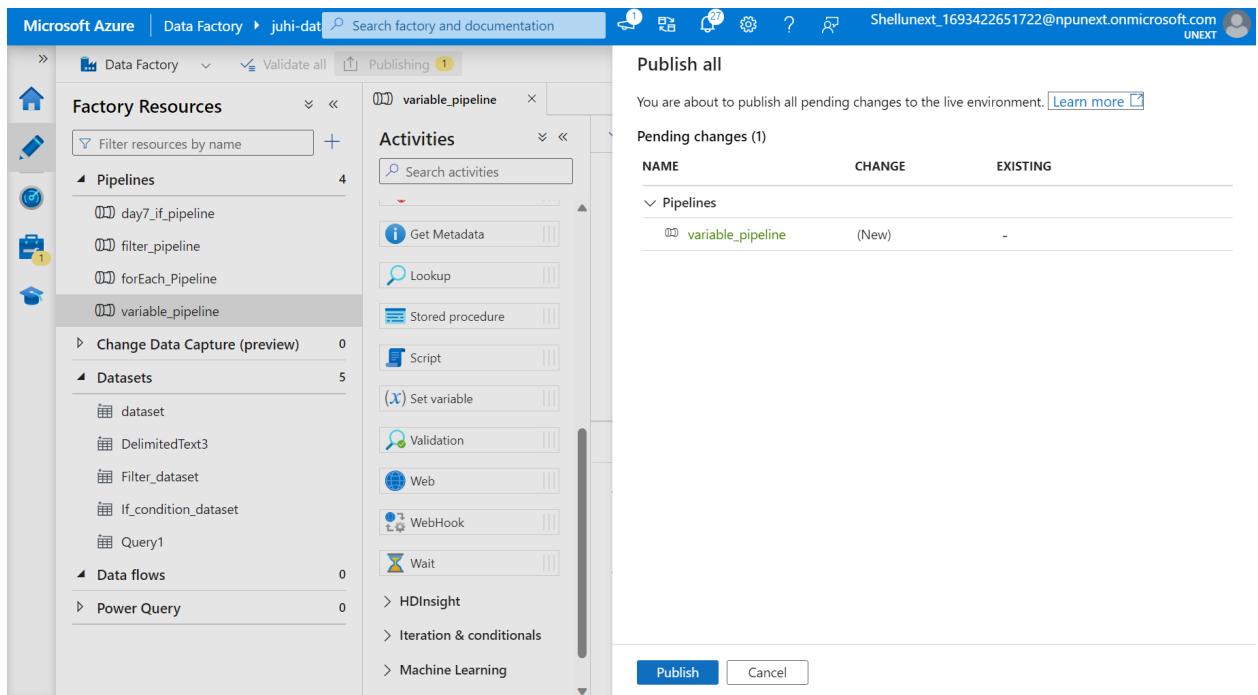
Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (1)

NAME	CHANGE	EXISTING
variable_pipeline	(New)	-

Publish **Cancel**



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All pipeline runs > variable_pipeline - Activity runs

Rerun Cancel Refresh Update pipeline List Gantt

Runs

- Dashboard
- Runs
- Pipeline runs
- Trigger runs
- Change Data Capture (prev...)

Runtimes & sessions

- Integration runtimes
- Data flow debug

Notifications

- Alerts & metrics

Output

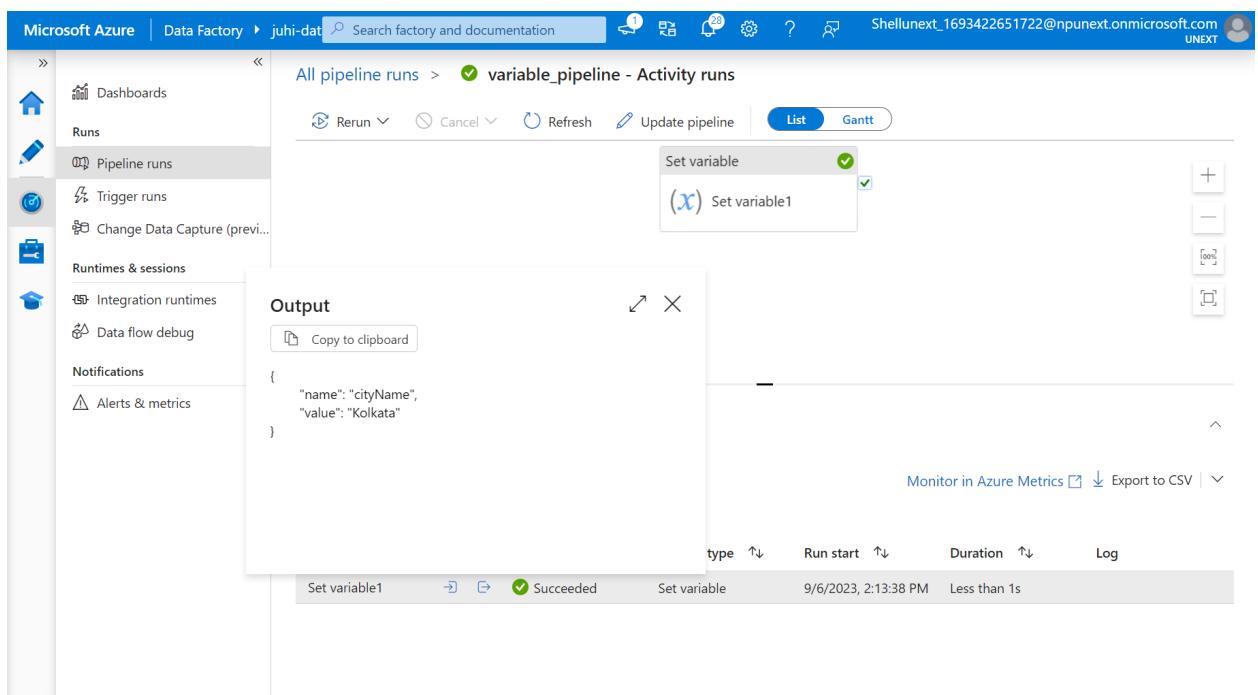
Set variable (x) Set variable1

{
 "name": "cityName",
 "value": "Kolkata"
}

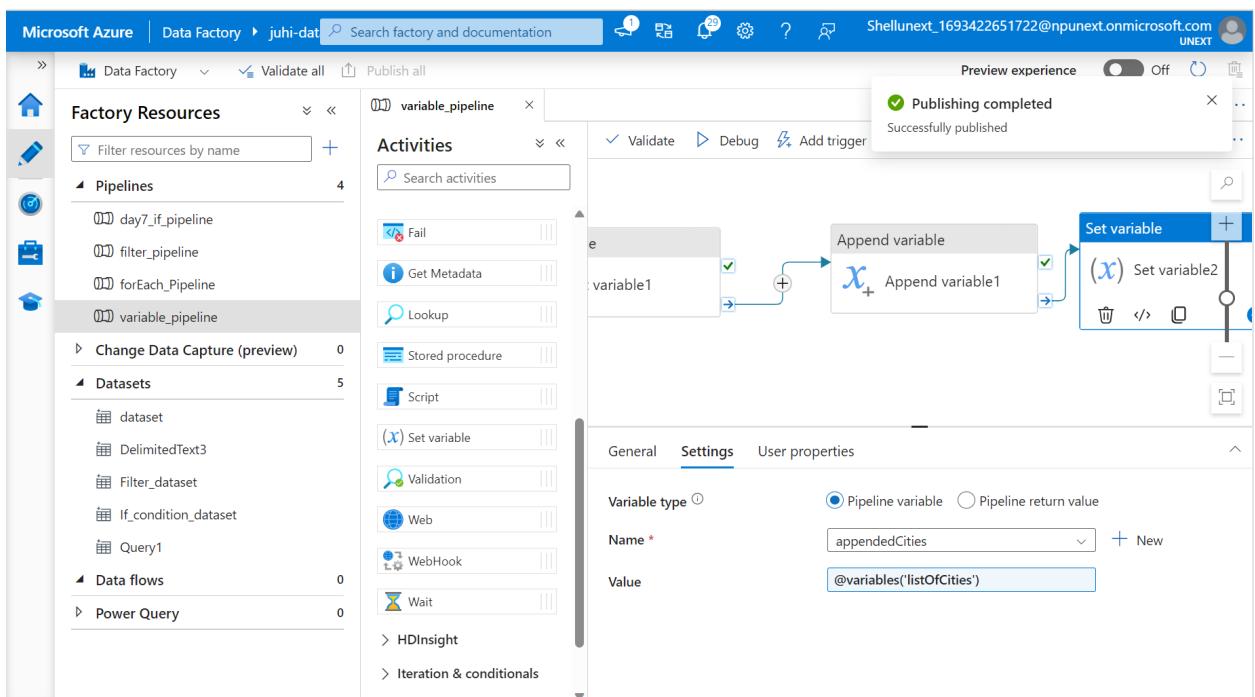
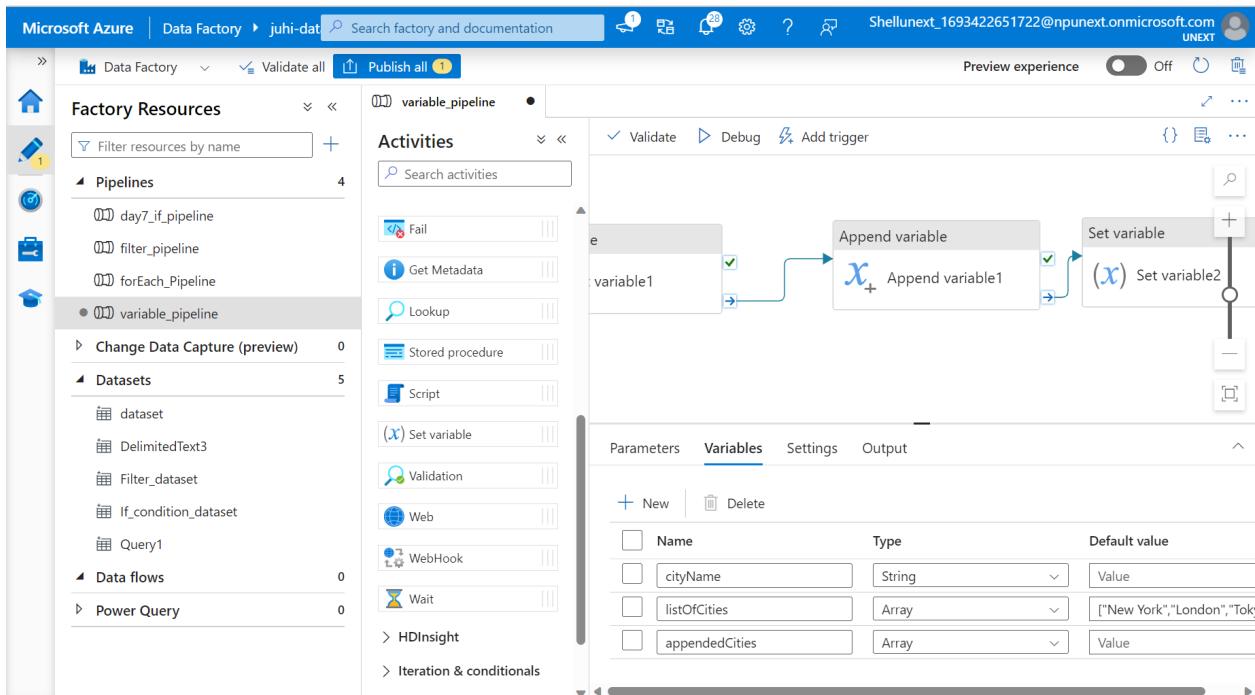
Copy to clipboard

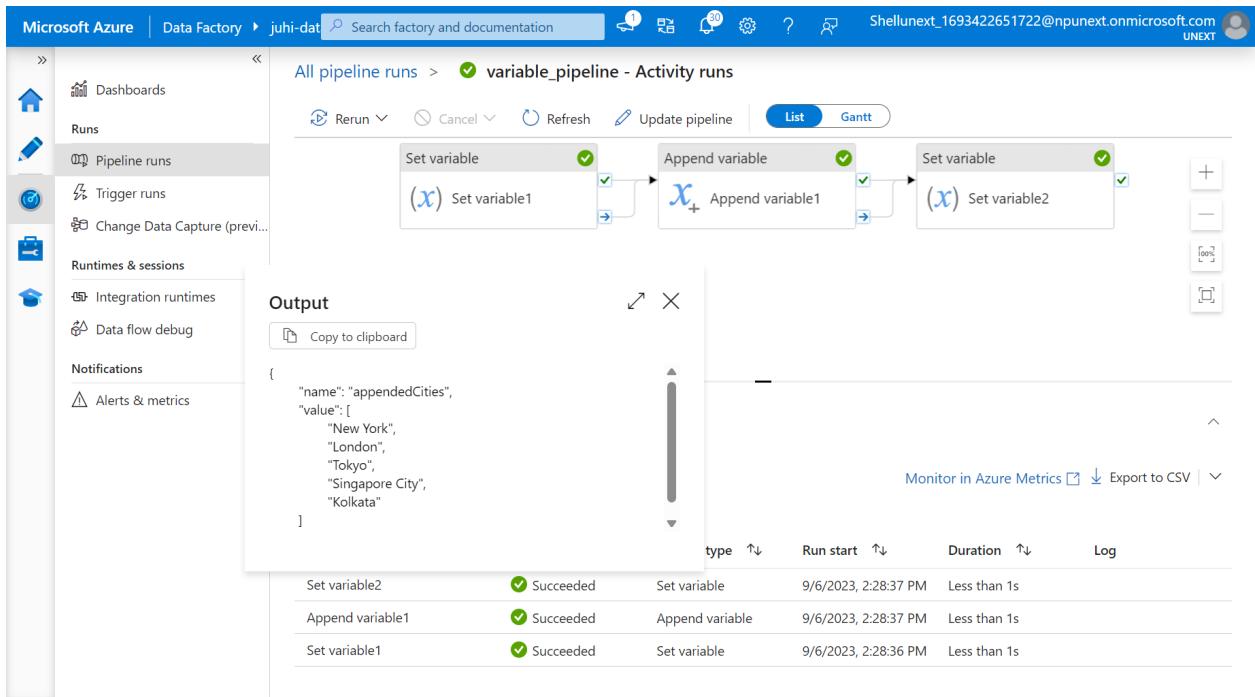
Monitor in Azure Metrics Export to CSV

type ↑	Run start ↑	Duration ↑	Log
Set variable1	Succeeded	Set variable	9/6/2023, 2:13:38 PM
			Less than 1s



5. Append Variable





6. Until Activity

Activities

- > Move and transform
- > Synapse
- > Azure Data Explorer
- > Azure Function
- > Batch Service
- > Databricks
- > Data Lake Analytics
- > General
- > HDInsight
- > Iteration & conditionals
- > Machine Learning
- > Power Query

Properties

Name * until_pipeline

Annotations

+ New

Name	Type
FileAvailable	String

Microsoft Azure | Data Factory | juhi-dat | Search factory and documentation

Publish all 1

Factory Resources

- Pipelines
 - day7_if_pipeline
 - filter_pipeline
 - forEach_Pipeline
 - until_pipeline**
 - variable_pipeline
- Change Data Capture (preview) 0
- Datasets 5
 - dataset
 - DelimitedText3
 - Filter_dataset
 - If_condition_dataset
 - Query1
- Data flows 0
- Power Query 0

Activities

- until
- Iteration & conditionals
 - Until

Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables.

```
@bool(variables('FileAvailable'))
```

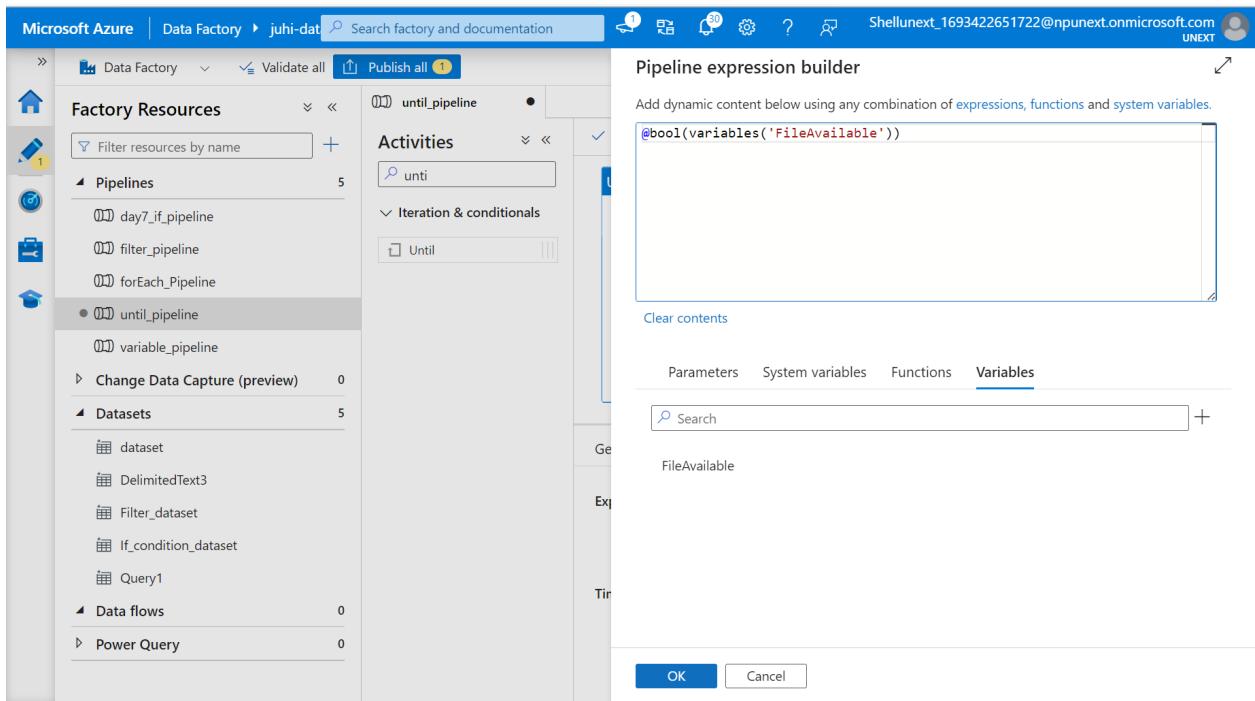
Clear contents

Parameters System variables Functions Variables

Search +

FileAvailable

OK Cancel



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Publish all 1

Preview experience Off

Factory Resources

- Pipelines
 - day7_if_pipeline
 - filter_pipeline
 - forEach_Pipeline
 - until_pipeline**
 - variable_pipeline
- Change Data Capture (preview) 0
- Datasets 5
 - dataset
 - DelimitedText3
 - Filter_dataset
 - If_condition_dataset
 - Query1
- Data flows 0
- Power Query 0

Activities

- until
- Iteration & conditionals
 - Until

Validate Debug Add trigger

Until

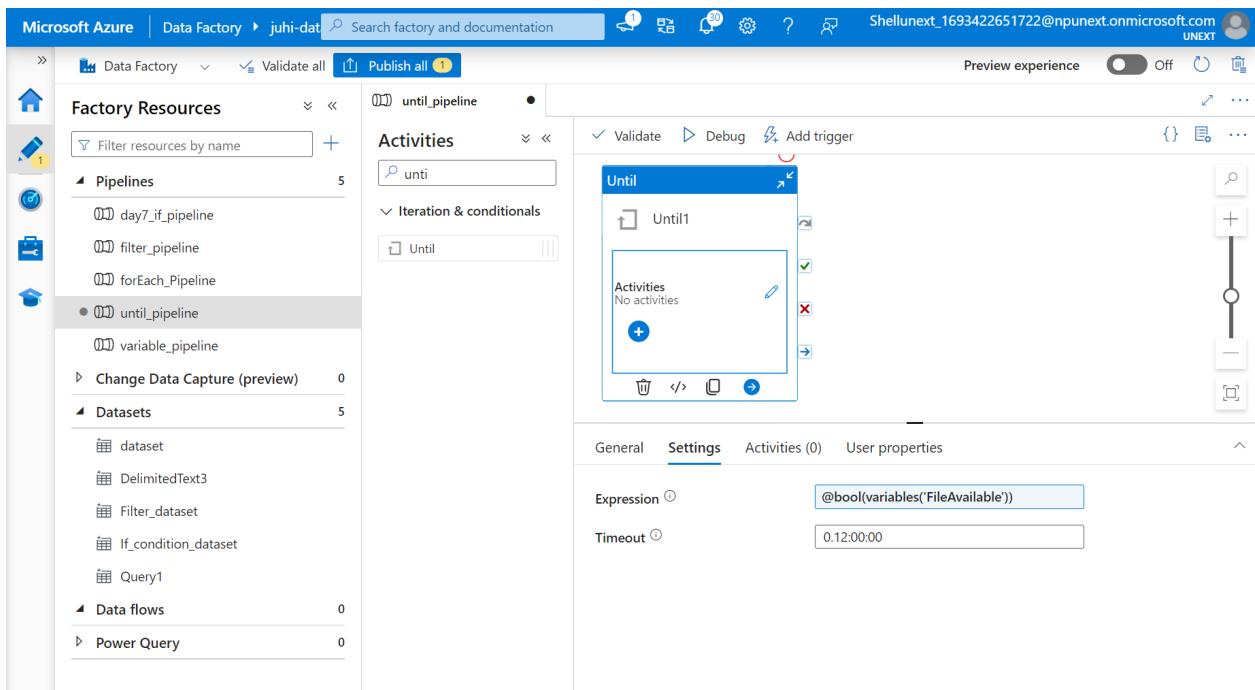
Until1

Activities
No activities

General Settings Activities (0) User properties

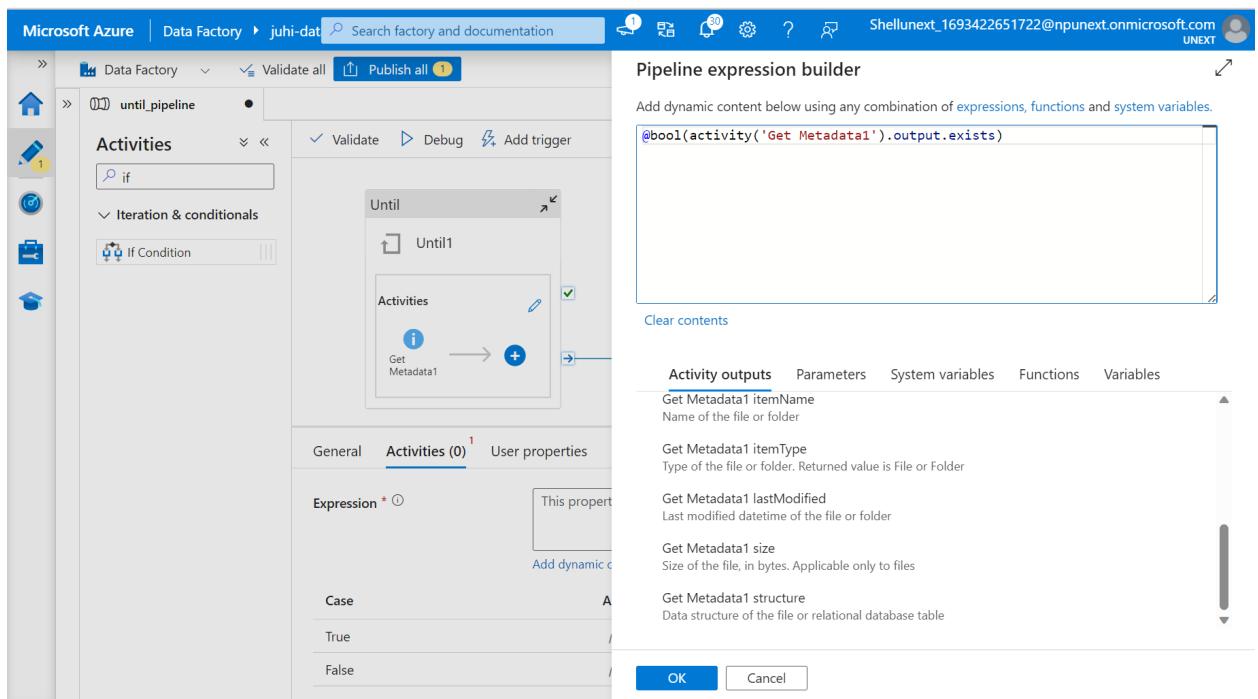
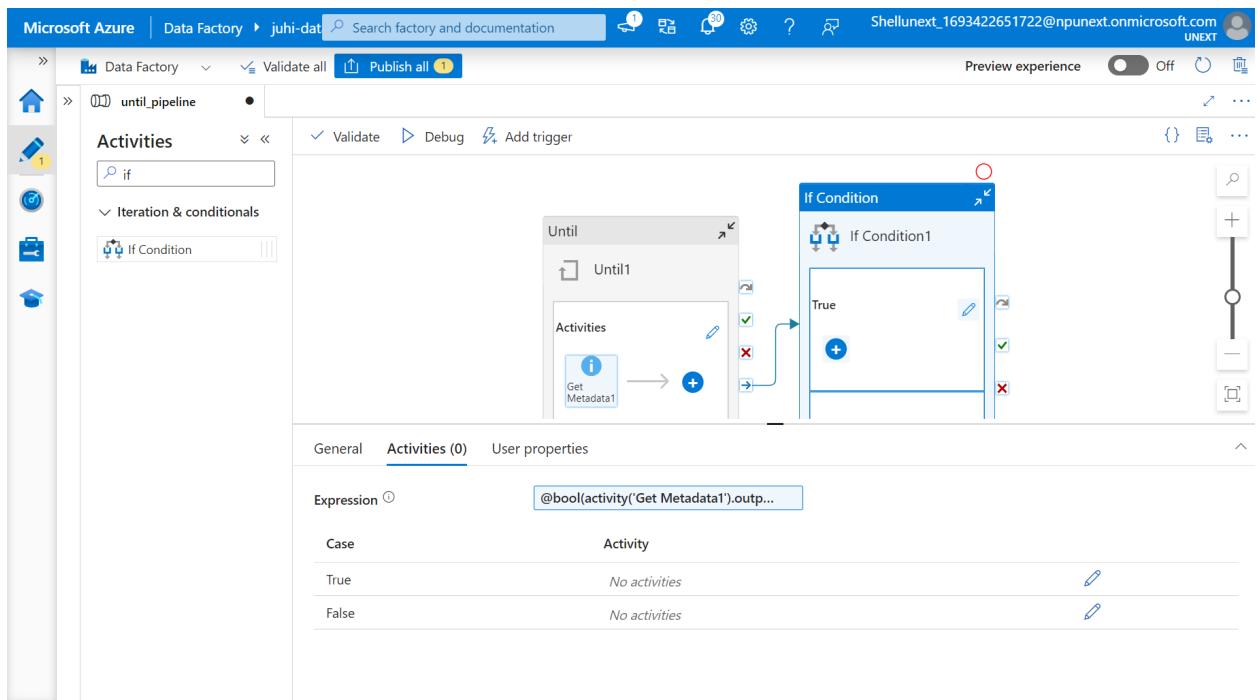
Expression @bool(variables('FileAvailable'))

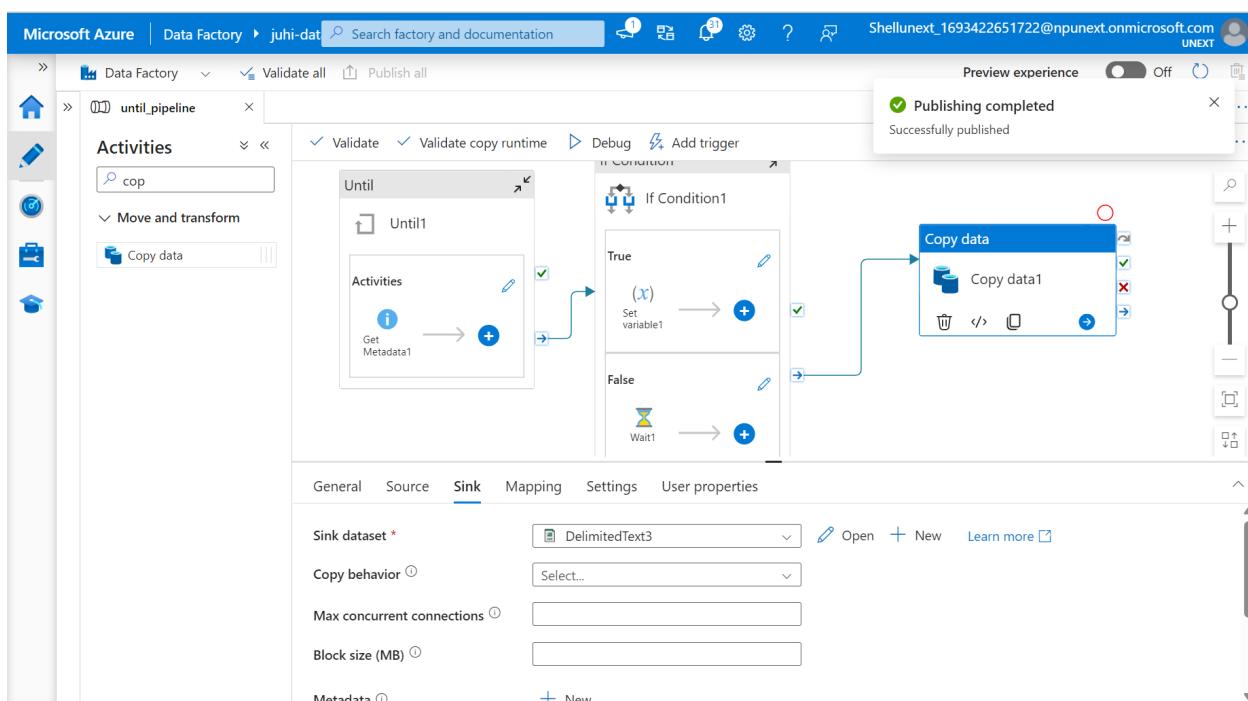
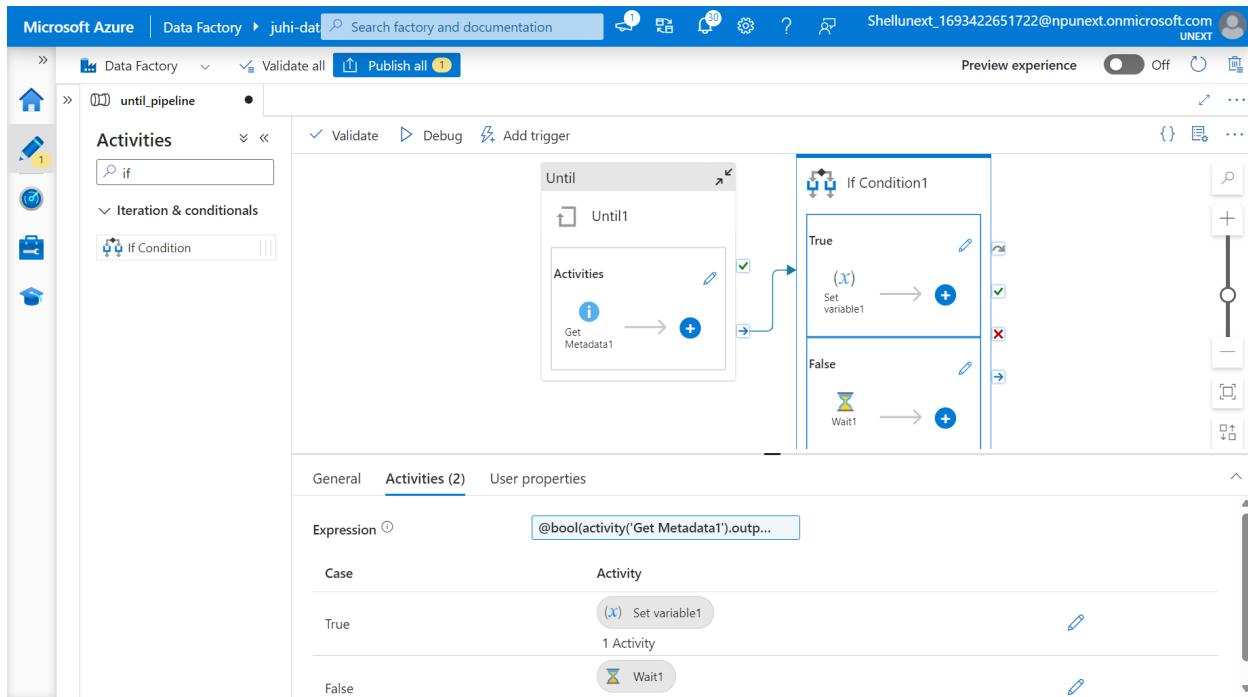
Timeout 0.12:00:00



The screenshot shows the Microsoft Azure Data Factory pipeline editor. The top navigation bar includes 'Microsoft Azure' and 'Data Factory > juhi-dat'. A search bar says 'Search factory and documentation'. On the right, there are icons for notifications, settings, and help, along with the email 'Shellunext_1693422651722@npunext.onmicrosoft.com' and 'UNEXT'. Below the navigation, there's a toolbar with 'Data Factory', 'Validate all', 'Publish all' (with a red dot), 'Preview experience' (switched off), and other icons. The left sidebar has a 'Activities' section with a search bar ('get') and a list containing 'General' and 'Get Metadata'. Under 'Get Metadata', there's one item: 'Get Metadata1'. The main workspace shows a pipeline named 'until_pipeline' with an activity named 'Until1'. The 'Until1' activity contains a single 'Get Metadata' activity. The bottom part of the screen shows the 'General' tab for 'Get Metadata1' with fields for 'Name' (set to 'Get Metadata1'), 'Description' (empty), 'Activity state (preview)' (set to 'Active'), 'Timeout' (set to '0.12:00:00'), and 'Retrsv' (set to '0').

The screenshot shows the Microsoft Azure Data Factory pipeline editor. At the top, there's a navigation bar with 'Microsoft Azure' and 'Data Factory'. The current factory is 'juhi-dat'. A search bar says 'Search factory and documentation'. On the right, there are icons for notifications, help, and user information, along with the email 'Shellunext_1693422651722@nunext.onmicrosoft.com' and 'UNEXT'. Below the navigation is a toolbar with 'Data Factory', 'Validate all', 'Publish all' (with a '1' badge), 'Preview experience' (switched off), and other icons. The main area shows a pipeline named 'until_pipeline'. On the left, under 'Activities', there's a search bar with 'get' and a list with 'Get Metadata' and a count of '1'. The pipeline tree shows 'until_pipeline > Until1'. Inside 'Until1', there's a single activity: 'Get Metadata1'. This activity has a status icon with a blue 'i', a green checkmark, and a red X. Below the pipeline tree, there are tabs for 'General', 'Settings' (which is selected), and 'User properties'. Under 'Settings', there's a 'Dataset' dropdown set to 'Query1', a 'Field list' section with 'New' and 'Delete' buttons, and filters for 'Start time (UTC)' and 'End time (UTC)'. There's also a 'Filter by last modified' button.





7. Web Activity

The screenshot shows the Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (FilterPipeline, ForEachPipeline, if_condition_pipeline, pipeline1, WebActivityPipeline, UntilActivity, Variable_pipeline) and 'Datasets' (ds_sink_txt, ds_src_txt, Filter_dataset, ForEachSourceDimitledSource, If_condition_dataset, SourceCSV). The 'WebActivityPipeline' pipeline is selected. In the main area, the 'Activities' section shows a 'web' activity named 'Web'. The 'Settings' tab is active, displaying configuration for a 'Web' activity. The 'Method' is set to 'GET', 'Authentication' is 'None', and there are 'Headers' and 'Advanced' sections. A note at the top right says: 'specified. Please ensure you trust the URL entered.'

The screenshot shows the 'All pipeline runs' page for the 'WebActivityPipeline'. The left sidebar includes 'Runs', 'Pipeline runs' (selected), 'Trigger runs', 'Change Data Capture (previ...', 'Runtimes & sessions', 'Integration runtimes', 'Data flow debug', 'Notifications', and 'Alerts & metrics'. The 'Pipeline runs' section shows a single run for the 'Web' activity, which is listed under the 'Output' section. The output JSON is:

```
{ "status": "success", "data": [ { "id": 1, "employee_name": "Tiger Nixon", "employee_salary": 320800, "employee_age": 61, "profile_image": "" } ] }
```

Below the output, a table provides details about the run:

type	Run start	Duration	Log
Web1	Succeeded	9/6/2023, 3:27:38 PM	3s