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Data Science Msc. in Galatasaray University

Data Science Applications Lecture

Term Project Presentation

# Agenda

1. Introduction
2. Dataset
3. Installation Process
4. Application Process
5. References

# Introduction

- + Today's world Works with data, all things that connected to create interaction create a json file and insert a data row in some databases. To sustain these connections, data engineering has crucial role to develop and maintain all process.
- + In this project, I applied a connection & pipeline from a file to another connection database with Azure CosmosDB.

# Dataset

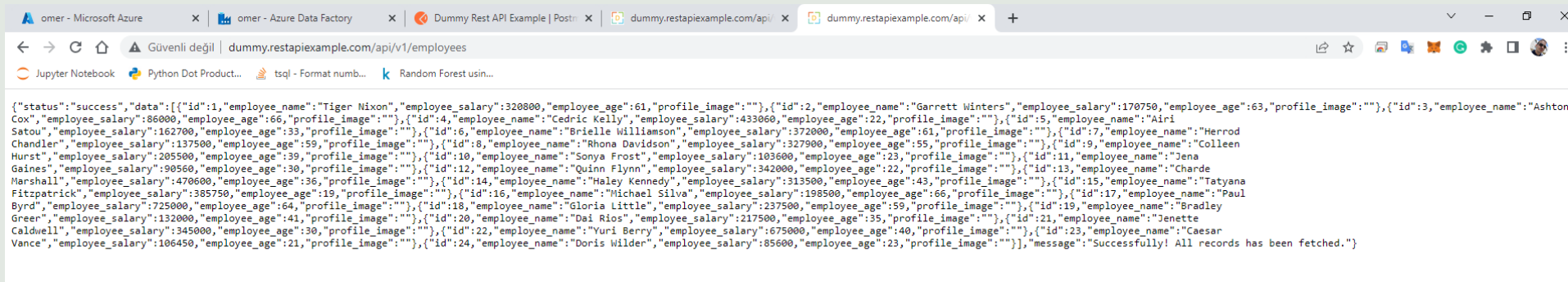
## + Postman Employees Rest API

+ Simple dataset and json extract

+ Using API: <http://dummy.restapiexample.com/api/v1/employees>

+ GET Method

## + Sample of dataset:



The screenshot shows a web browser window with the URL [dummy.restapiexample.com/api/v1/employees](http://dummy.restapiexample.com/api/v1/employees). The browser's developer tools are open, displaying the JSON response from the GET request. The response is a JSON object with a "status" field set to "success" and a "data" array containing 24 employee records. Each record includes fields for "id", "employee\_name", "employee\_salary", "employee\_age", and "profile\_image". The last element in the array is a message: "Successfully! All records has been fetched."

```
{
  "status": "success",
  "data": [
    {
      "id": 1,
      "employee_name": "Tiger Nixon",
      "employee_salary": 320800,
      "employee_age": 61,
      "profile_image": ""
    },
    {
      "id": 2,
      "employee_name": "Garrett Winters",
      "employee_salary": 170750,
      "employee_age": 63,
      "profile_image": ""
    },
    {
      "id": 3,
      "employee_name": "Ashton Cox",
      "employee_salary": 86000,
      "employee_age": 66,
      "profile_image": ""
    },
    {
      "id": 4,
      "employee_name": "Cedric Kelly",
      "employee_salary": 433060,
      "employee_age": 22,
      "profile_image": ""
    },
    {
      "id": 5,
      "employee_name": "Airi Satou",
      "employee_salary": 162700,
      "employee_age": 33,
      "profile_image": ""
    },
    {
      "id": 6,
      "employee_name": "Brielle Williamson",
      "employee_salary": 372000,
      "employee_age": 61,
      "profile_image": ""
    },
    {
      "id": 7,
      "employee_name": "Herrod Chandler",
      "employee_salary": 137500,
      "employee_age": 59,
      "profile_image": ""
    },
    {
      "id": 8,
      "employee_name": "Rhona Davidson",
      "employee_salary": 327900,
      "employee_age": 55,
      "profile_image": ""
    },
    {
      "id": 9,
      "employee_name": "Colleen Hurst",
      "employee_salary": 205500,
      "employee_age": 39,
      "profile_image": ""
    },
    {
      "id": 10,
      "employee_name": "Sonya Frost",
      "employee_salary": 103600,
      "employee_age": 23,
      "profile_image": ""
    },
    {
      "id": 11,
      "employee_name": "Jena Gaines",
      "employee_salary": 90560,
      "employee_age": 30,
      "profile_image": ""
    },
    {
      "id": 12,
      "employee_name": "Quinn Flynn",
      "employee_salary": 342000,
      "employee_age": 22,
      "profile_image": ""
    },
    {
      "id": 13,
      "employee_name": "Charde Marshall",
      "employee_salary": 470600,
      "employee_age": 36,
      "profile_image": ""
    },
    {
      "id": 14,
      "employee_name": "Haley Kennedy",
      "employee_salary": 313500,
      "employee_age": 43,
      "profile_image": ""
    },
    {
      "id": 15,
      "employee_name": "Tatyana Fitzpatrick",
      "employee_salary": 385750,
      "employee_age": 19,
      "profile_image": ""
    },
    {
      "id": 16,
      "employee_name": "Michael Silva",
      "employee_salary": 198500,
      "employee_age": 66,
      "profile_image": ""
    },
    {
      "id": 17,
      "employee_name": "Paul Byrd",
      "employee_salary": 725000,
      "employee_age": 64,
      "profile_image": ""
    },
    {
      "id": 18,
      "employee_name": "Gloria Little",
      "employee_salary": 237500,
      "employee_age": 59,
      "profile_image": ""
    },
    {
      "id": 19,
      "employee_name": "Bradley Greer",
      "employee_salary": 132000,
      "employee_age": 41,
      "profile_image": ""
    },
    {
      "id": 20,
      "employee_name": "Dai Rios",
      "employee_salary": 217500,
      "employee_age": 35,
      "profile_image": ""
    },
    {
      "id": 21,
      "employee_name": "Jenette Caldwell",
      "employee_salary": 345000,
      "employee_age": 30,
      "profile_image": ""
    },
    {
      "id": 22,
      "employee_name": "Yuri Berry",
      "employee_salary": 675000,
      "employee_age": 40,
      "profile_image": ""
    },
    {
      "id": 23,
      "employee_name": "Caesar Vance",
      "employee_salary": 106450,
      "employee_age": 21,
      "profile_image": ""
    },
    {
      "id": 24,
      "employee_name": "Doris Wilder",
      "employee_salary": 85600,
      "employee_age": 23,
      "profile_image": ""
    }
  ],
  "message": "Successfully! All records has been fetched."
}
```

# Installation Process

## +Steps:

- + Creating a data factory
- + Setting the credentials
- + Starting to deployment
- + Finishing the utilization
- + Completion screen and ready to start a data pipeline!

+In the next slides; I added the screenshots of the process.

# Installation Process

The screenshot shows the Microsoft Azure Data Factory portal interface. The left sidebar contains navigation options: Home, Author, Monitor, and Manage. The main area displays the 'Linked services' section, which is currently empty. A modal dialog is open in the center, warning that the linked service will be published immediately due to the inability to store credentials in a Git repository. The dialog provides a link to learn more about using Azure Key Vault for secure credential storage. The right sidebar shows the 'New linked service' configuration for 'Azure Blob Storage', including fields for Name, Description, Integration runtime, Authentication type, and Account selection method.

Microsoft Azure | Data Factory | omer

Home | Author | Monitor | Manage

Validate all | Save all | Publish

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

Filter by name | Annotations: Any

Showing 0 - 0 of 0 items

Name | Type | Related

**Linked service will be published immediately**

As Data Factory cannot store credentials in a Git repository, this change will be published immediately.

This may cause issues on the main branch and on published resources that depend on this linked service. To avoid immediate publish of linked services, we recommend using Azure Key Vault. [Learn more here](#)

Do you want to proceed?

OK | Cancel

No linked service to show

If you expected to see results, try changing your filters or create a new linked service.

Create linked service

New linked service

Azure Blob Storage [Learn more](#)

To avoid publishing immediately to Data Factory, please use Azure Key Vault to retrieve secrets securely. [Learn more here](#)

Name \*

AzureBlobStorage1

Description

Connect via integration runtime \*

AutoResolveIntegrationRuntime

Authentication type

Account key

Connection string | **Azure Key Vault**

Account selection method

From Azure subscription | Enter manually

Azure subscription

Azure for Students (346a4b24-f67d-47f1-af4c-aa0ce25a6743)

Storage account name \*

omerfaruk

Additional connection properties

+ New

Test connection

To linked service | To file path

Annotations

+ New

# Installation Process

Microsoft Azure | Data Factory > omer

You have GIT enabled in your data factory. Publishing in 'Data Factory' mode is disabled. Please switch back to GIT mode to make further changes. Read about our Best Practices.

Home

Data Factory

Validate all

Publish all

Connections

Linked services

Integration runtimes

Microsoft Purview

Source control

Git configuration

ARM template

Author

Triggers

Global parameters

Data flow libraries (preview)

Security

Credentials

Customer managed key

Managed private endpoints

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

Filter by name

Annotations : Any

Showing 0 - 0 of 0 items

Name ↑↓	Type ↑↓	Related ↑↓
---------	---------	------------

No linked service to show

If you expected to see results, try changing your filters or create a new linked

Create linked service

New linked service

Azure Blob Storage [Learn more](#)

Name \*  
AzureBlobStorage1

Description

Connect via integration runtime \* ⓘ  
AutoResolveIntegrationRuntime

Authentication type  
Account key

Connection string

Azure Key Vault

Account selection method ⓘ  
☒ From Azure subscription ☐ Enter manually

Azure subscription ⓘ  
Select all

Storage account name \*  
No accounts found

Additional connection properties  

+ New

Test connection ⓘ  
☒ To linked service ☐ To file path

Annotations  

+ New

> Parameters

> Advanced ⓘ

Create

Back

Test connection

Cancel

# Installation Process

The screenshot displays the Microsoft Azure Data Factory portal interface. The top navigation bar includes the Microsoft Azure logo, the path 'Data Factory > omer', a search bar, and user information for 'omerfaruk.balli@ogr.gsu.edu.tr' from GALATASARAY UNIVERSITESI. A notification banner at the top states: 'You have GIT enabled in your data factory. Publishing in 'Data Factory' mode is disabled. Please switch back to GIT mode to make further changes. Read about our Best Practices.'

The main interface is divided into several sections:

- Factory Resources:** A sidebar on the left showing a tree view of resources. Under 'Pipelines', 'pipeline1' is selected, showing a count of 1. Other resources like Datasets, Data flows, and Power Query are listed with counts of 0.
- Activities:** A central panel with a search bar and a list of activity types: Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query.
- Properties:** A panel on the right showing the 'General' tab for 'pipeline1'. It includes fields for 'Name' (set to 'pipeline1') and 'Description'. There is also a section for 'Annotations' with a '+ New' button.
- Parameters:** A tab at the bottom of the main panel, currently showing a '+ New' button.

The interface also features a 'Validate all' button and a 'Publish all' button with a warning icon. A vertical toolbar on the right side of the main panel contains icons for search, add, zoom in, zoom out, and other utility functions.



# Installation Process

The screenshot displays the Microsoft Azure portal interface. At the top, the navigation bar shows the Microsoft Azure logo and a search bar. Below this, the breadcrumb trail indicates the current page is the Overview for the deployment 'Microsoft.DataFactory-20220626181547'. The left sidebar contains a list of navigation options: Overview (selected), Inputs, Outputs, and Template. The main content area features a status message: 'Your deployment is complete', accompanied by a green checkmark icon. Below this message, deployment details are listed: Deployment name: Microsoft.DataFactory-20220626181547, Subscription: Azure for Students, and Resource group: omerfaruk. To the right of these details, the Start time is shown as 6/26/2022, 6:17:58 PM, and the Correlation ID is 3febac7f-037b-4c0c-8ac7-a3c173bcfa38. A 'Go to resource' button is located at the bottom of the deployment details section. The background of the slide features abstract purple and white wavy lines.

portal.azure.com/#view/nuobextension/DeploymentDetailsblade/~/overview/id/%2fsubscriptions%2f546a4d24-167d-4711-a14c-8a0ce25a6745%2fresourcegroups%2fome

Jupyter Notebook Python Dot Product... tsq - Format numb... Random Forest usin...

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

Home > Microsoft.DataFactory-20220626181547 | Overview Deployment

Search (Ctrl+/) << Delete Cancel Redeploy Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

✓ Your deployment is complete

Deployment name: Microsoft.DataFactory-20220626181547 Start time: 6/26/2022, 6:17:58 PM  
Subscription: Azure for Students Correlation ID: 3febac7f-037b-4c0c-8ac7-a3c173bcfa38  
Resource group: omerfaruk


Deployment details (Download)

Next steps





Go to resource


# Installation Process


[Home](#) >


 **Microsoft.App-ContainerApp-Portal-78f6f7c6-96c5** | Overview ⚙️ ...


Deployment


<<  Delete  Cancel  Redeploy  Refresh

 Overview



 Inputs


 Outputs





 Template

 We'd love your feedback! →

Deployment is in progress

 Deployment name: Microsoft.App-ContainerApp-Portal-78f6f7c6-9... Start time: 6/26/2022, 4:13:37 PM  
Subscription: [Azure for Students](#) Correlation ID: 1bf860ea-e9bf-45eb-a81a-93ff76f8e427   
Resource group: [omerfaruk](#)

 Deployment details [\(Download\)](#)

Resource	Type	Status	Operation details
 managedEnvironment-omerfaruk-98fa	Microsoft.App/managedEnvironments	Created	<a href="#">Operation details</a>
 <a href="#">workspaceomerfaruk8f68</a>	Microsoft.OperationalInsights/workspaces	OK	<a href="#">Operation details</a>
 <a href="#">workspaceomerfaruk8f68</a>	Microsoft.OperationalInsights/workspaces	OK	<a href="#">Operation details</a>
 <a href="#">workspaceomerfaruk8f68</a>	Microsoft.OperationalInsights/workspaces	OK	<a href="#">Operation details</a>

# Installation Process

Microsoft Azure

Kaynakları, hizmetleri ve bilgileri deneyin (Ctrl+J)

GALATASARAY UNIVERSİTESİ

Giriş >

Microsoft.ContainerInstances-20220626155843 | Genel Bakış

Dağıtım

Ara (Ctrl+J)

Genel Bakış

Girişler

Çıktılar

Şablon

Sil İptal Yeniden dağıt Yenile

Ger i bildirimini z almaya çok ısteriz! →

... Dağıtım sürüyor

Dağıtım adı: Microsoft.ContainerInstances-20220626155843

Abonelik: [Azure for Students](#)

Kaynak grubu: [omerfaruk](#)

Başlangıç saati: 26.06.2022 16:00:09

Bağın tı Kimli ği: 571ad7d1-15a3-4860-981a-21355407a461

^ Dağıtım ayrıntıları (İndir)

Kaynak	Tür	Durum	İşlem ayrıntıları
Sonuç yok.			

... Dağıtım sürüyor...  
'omerfaruk' kaynak grubuna dağıtım devam ediyor.

# Installation Process

Microsoft Azure

Kaynakları, hizmetleri ve belgeleri arayın (G+/I)

Ömer Faruk Özgür  
GALATASARAY ÜNİVERSİTESİ

Giriş > Kaynak oluştur >

Kapsayıcı örneği oluşturma

Son doğrulama çalıştırılıyor...

Temel Ayarlar

Ağ

Gelişmiş

Etiketler

Gözden geçir + oluşturun

Temel Ayarlar

Abonelik

Kaynak grubu

Bölge

Kapsayıcı adı

Görüntü türü

Görüntü

İşletim sistemi türü

Bellek (GiB)

CPU çekirdeği sayısı

GPU türü (Önizleme)

GPU sayısı

Azure for Students

omerfaruk

West US

omerfaruk

Public

mcr.microsoft.com/azuredocs/aci-helloworld:latest

Linux

1.5

1

None

0

Ağ

Ağ türü

Bağlantı noktaları

Genel

80 (TCP)

Gelişmiş

Yeniden başlatma ilkesi

Komutu geçersiz kılma

Hata durumunda

[]

Etiketler

(yok)

Oluştur

< Geri

İleri >

Otomasyon için bir şablon indir

# Application Process

## + Steps:

- + Finding a REST API
  - + Creating a REST API services from data factory tools
  - + Selection of REST from dataset section
  - + Completion of REST service.
  - + Creating a pipeline item.
  - + Setting the source and outcome.
  - + Start to trigger and work.
  - + Creating the outcomes as csv dataset file.
  - + Finishing the dataset pipeline and run the trigger.
  - + Dataset extract and completed.
- + In the next slides, I added the process screenshots.

# Application Process

The screenshot displays the Microsoft Azure Data Factory Studio interface. The top navigation bar shows 'Microsoft Azure | Data Factory | omer' and a search bar. A notification banner asks about previewing updates to Azure Data Factory Studio. The left sidebar contains 'Factory Resources' with a search bar and a list of resources: Pipelines (1), Datasets (3), Data flows (0), Power Query (0), and Templates (0). The 'Activities' pane lists various tasks like Move & transform, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. The main canvas shows a 'Copy data' activity named 'Copy data1'. The bottom pane is currently empty with a '+ New' button.

On the right, the 'New dataset' dialog is open. It includes a description: 'In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)'. Below this is a 'Select a data store' search bar. The 'Generic protocol' tab is selected, showing four options: ODBC, OData, REST, and SharePoint Online List. The 'Continue' button is highlighted in blue, and a 'Cancel' button is also present.

# Application Process

The screenshot displays the Microsoft Azure Data Factory Studio interface. The top navigation bar shows 'Microsoft Azure | Data Factory | omer'. A search bar is present. Below the navigation bar, a message asks: 'Would you like to try preview updates to Azure Data Factory Studio? Open settings to learn more and opt in'. The main workspace is divided into three panes:

- Factory Resources:** A sidebar on the left showing a tree view of resources. It includes 'Pipelines' (1 item: 'pipeline11'), 'Datasets' (3 items: 'DelimitedText1', 'DENEME', 'mycsv'), 'Data flows' (0), 'Power Query' (0), and 'Templates' (0).
- Activities:** A middle sidebar showing a list of activities: 'Move & transform', 'Azure Data Explorer', 'Azure Function', 'Batch Service', 'Databricks', 'Data Lake Analytics', 'General', 'HDInsight', 'Iteration & conditionals', 'Machine Learning', and 'Power Query'. A search bar is at the top of this list.
- Main Canvas:** The central area showing a pipeline diagram. A single activity named 'Copy data1' is visible, with a 'Copy data' label above it.

On the right side, the 'Edit linked service' dialog is open. It shows the configuration for a REST linked service named 'RestService1'. The fields are as follows:

- Name:** RestService1
- Description:** (Empty text box)
- Connect via integration runtime:** AutoResolveIntegrationRuntime
- Base URL:** http://dummy.restapiexample.com/api/v1/employees
- Authentication type:** Anonymous
- Server Certificate Validation:** Enable (selected), Disable
- Auth headers:** + New
- Annotations:** + New
- Parameters:** > Parameters
- Advanced:** > Advanced

At the bottom of the dialog, there are 'Save', 'Cancel', and 'Test connection' buttons.

# Application Process

The screenshot displays the Microsoft Azure Data Factory web interface. The browser address bar shows the URL: `adf.azure.com/en/authoring/dataset/RestResource1?factory=%2Fsubscriptions%2F346a4b24-167d-47f1-af4c-aa0ce25a6743%2FresourceGroups%2Fomerfaruk%2Fproviders%2FMicrosoft.DataFactory%2Ffactories%2Fomerfaruk`. The page title is "Data Factory | omer".

The left sidebar, titled "Factory Resources", contains a search bar and a list of resources:

- Pipelines: 1
  - pipeline11
- Datasets: 4
  - DelimitedText1
  - DENEME
  - mycsv
  - RestResource1 (selected)
- Data flows: 0
- Power Query: 0
- Templates: 0

The main content area shows the configuration for the selected resource, "RestResource1". It features a "REST" icon and the name "RestResource1". Below this, there are two tabs: "Connection" (active) and "Parameters".

The "Connection" tab displays the following fields:

- Linked service: A dropdown menu showing "RestService1". To its right are links for "Test connection", "Edit", "+ New", and "Learn more". A green checkmark indicates "Connection successful".
- Base URL: A text field containing `http://dummy.restapiexample.com/api/v1/`.
- Relative URL: An empty text field.

To the right of the main configuration area is a "Properties" panel with two tabs: "General" (active) and "Related". The "General" tab contains the following fields:

- Name: A text field containing "RestResource1".
- Description: An empty text area.
- Annotations: A section with a "+ New" link.



# Application Process

The screenshot displays the Microsoft Azure Data Factory Studio interface. The top navigation bar shows 'Microsoft Azure | Data Factory | omer'. A search bar is present. Below the navigation bar, a message asks: 'Would you like to try preview updates to Azure Data Factory Studio? Open settings to learn more and opt in'. The main workspace is divided into three panes. The left pane, 'Factory Resources', shows a tree view with 'Pipelines' (1 item: pipeline11) and 'Datasets' (4 items: DelimitedText1, DENEEM, mycsv, RestResource1). The middle pane, 'Activities', shows a list of activities under 'Move & transform': 'Copy data', 'Data flow', 'Azure Data Explorer', 'Azure Function', 'Batch Service', 'Databricks', 'Data Lake Analytics', and 'General'. The right pane, 'New dataset', shows a grid of data stores: 'Azure Blob Storage', 'Azure Cosmos DB (MongoDB API)', 'Azure Cosmos DB (SQL API)', 'Azure Data Explorer (Kusto)', 'Azure Data Lake Storage Gen1', 'Azure Data Lake Storage Gen2', 'Azure Database for MySQL', 'Azure Database for PostgreSQL', and 'Azure Databricks Delta Lake'. The 'Copy data' activity is selected in the pipeline, and the 'Sink' tab is active, showing a 'Sink dataset' dropdown menu. The 'New dataset' dialog is open, showing a search bar and a grid of data stores. The 'Continue' button is visible at the bottom of the dialog.

Microsoft Azure | Data Factory | omer

Would you like to try preview updates to Azure Data Factory Studio? Open settings to learn more and opt in

main branch | Validate all | Save all | Publish

Factory Resources

- Pipelines (1)
- pipeline11
- Datasets (4)
- DelimitedText1
- DENEEM
- myscv
- RestResource1
- Data flows (0)
- Power Query (0)
- Templates (0)

Activities

- Search activities
- Move & transform
- Copy data
- Data flow
- Azure Data Explorer
- Azure Data Explorer C...
- Azure Function
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- Append variable
- Delete
- Execute Pipeline
- Execute SSIS package
- Fail
- Get Metadata
- Lookup
- Stored procedure

Copy data

Copy data2

General | Source | Sink | Mapping | Settings | User properties

Sink dataset \*

Select...

New

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 (MongoDB API)
- Azure Cosmos DB (SQL API)
- Azure Data Explorer (Kusto)
- Azure Data Lake Storage Gen1
- Azure Data Lake Storage Gen2
- Azure Database for MySQL
- Azure Database for PostgreSQL
- Azure Databricks Delta Lake

Continue

Cancel

# Application Process

The screenshot displays the Microsoft Azure Data Factory Studio web interface. The top navigation bar shows the user is logged in as 'omerfaruk.balli@ogr.gsu.edu.tr' from GALATASARAY UNIVERSITESI. The main workspace is titled 'pipeline11' and shows a 'Copy data' activity. A 'Select format' dialog is open on the right, prompting the user to 'Choose the format type of your data'. The dialog offers six options: Avro, Binary, DelimitedText (selected), JSON, ORC, and Parquet. The 'Sink' tab is active in the activity configuration, showing a 'Sink dataset' dropdown menu. The left sidebar lists 'Factory Resources' including Pipelines, Datasets, and Data flows. The bottom of the dialog has 'Continue', 'Back', and 'Cancel' buttons.

# Application Process

The screenshot displays the Azure Data Factory (ADF) web interface. On the left, the 'Factory Resources' pane shows a tree view with 'Pipelines' (1 item) and 'Datasets' (5 items). The 'Pipelines' section is expanded, showing 'pipeline11'. The main canvas displays the 'pipeline11' pipeline with a single activity named 'Copy data2'. The 'Copy data' activity is highlighted, and its configuration pane is open, showing the 'General' tab. The configuration includes fields for 'Name' (Copy data2), 'Description', 'Timeout' (7.00:00:00), 'Retry' (0), 'Retry interval (sec)' (30), 'Secure output' (unchecked), and 'Secure input' (unchecked). On the right, the 'Pipeline validation output' pane shows a success message: 'Your pipeline has been validated. No errors were found.' with a 'Close' button.

**Factory Resources**

- Pipelines: 1
  - pipeline11
- Datasets: 5
  - DelimitedText1
  - DelimitedText2
  - DENEME
  - mycsv
  - RestResource1
- Data flows: 0
- Power Query: 0
- Templates: 0

**Activities**

- Move & transform
  - Copy data
  - Data flow
- Azure Data Explorer
  - Azure Data Explorer C...
- Azure Function
  - Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
  - Append variable
  - Delete
  - Execute Pipeline
  - Execute SSIS package
  - Fail
  - Get Metadata
  - Lookup
  - Stored procedure

**Copy data2 Configuration**

Property	Value
Name *	Copy data2
Description	
Timeout ⓘ	7.00:00:00
Retry ⓘ	0
Retry interval (sec) ⓘ	30
Secure output ⓘ	<input type="checkbox"/>
Secure input ⓘ	<input type="checkbox"/>

**Pipeline validation output**

Your pipeline has been validated.  
No errors were found.

Close


# Application Process

to tr  
ain  
Res  
oun  
s  
line  
s  
nite  
nite  
EM  
SV  
Resc  
ws  
Que  
es


Details Refresh

[Learn more on copy performance details from here.](#)

Activity run id: 99acabdb-11e8-4bab-b9ab-00313e9bf6be

 REST

Succeeded

 Azure Blob Storage  
Region: East US

Data read: 3,865 KB  
Objects read: 1  
Peak connections: 1

Data written: 57 bytes  
Files written: 1  
Rows written: 1  
Peak connections: 1

Copy duration00:00:07  
Throughput: 565,248 bytes/s


REST → Azure Blob Storage


Start timeJul 1, 2022, 3:45:53 pm  
Used DIUs4  
Used parallel copies1

Duration00:00:07

Details	Working duration	Total duration
Queue		00:00:04
Transfer	<div>Time to first byte00:00:00 Reading from source00:00:00 Writing to sink00:00:00</div>	00:00:01

Data consistency verificationNot verified

 How satisfied or dissatisfied are you with the performance of this copy activity?



# Application Process

The screenshot displays the Azure Data Factory (ADF) interface for configuring a dataset. The left sidebar shows the 'Factory Resources' tree with 'DelimitedText2' selected under 'Datasets'. The main workspace shows the configuration for 'DelimitedText2' in the 'Connection' tab. The 'Linked service' is 'AzureBlobStorage1', and the 'File path' is 'demo / Directory / File'. The 'Column delimiter' is 'Comma (,)' and the 'Row delimiter' is 'Default (\r,\n, or \r\n)'. The 'Encoding' is 'Default(UTF-8)' and the 'Quote character' is 'Double quote (")'. A file selection dialog is open on the right, showing a list of files including 'employees.csv'.

**Factory Resources**

- Pipelines: 1
  - pipeline11
- Datasets: 5
  - DelimitedText1
  - DelimitedText2**
  - DENEME
  - mycsv
  - RestResource1
- Data flows: 0
- Power Query: 0
- Templates: 0

**DelimitedText2 Configuration**

**Connection** | Schema | Parameters

Linked service \*: AzureBlobStorage1 [Test connection](#) [Edit](#) [New](#) [Learn more](#)

File path \*: demo / Directory / File [Browse](#) [Preview data](#)

Compression type: None

Column delimiter: Comma (,) [Edit](#)

Row delimiter: Default (\r,\n, or \r\n) [Edit](#)

Encoding: Default(UTF-8)

Escape character: Backslash (\) [Edit](#)

Quote character: Double quote (") [Edit](#)

Select a file or folder.

Root folder > demo

- data\_242fdbad-325e-40ac-be51-e3c9f006f43a\_66109327-b975-4173-8c9c-e3ea205006b6.txt
- data\_99acabdb-11e8-4bab-b9ab-00313e9bf6be\_b9a2c0cb-8bf0-43d0-bd6e-b1334bbf16f7.txt
- employees.csv**
- outputs

Showing 1 - 4 of 4 items

[OK](#) [Cancel](#)

# References

- + <https://docs.microsoft.com/en-us/azure/data-factory/>
- + <https://docs.microsoft.com/tr-tr/rest/api/datafactory/pipelines/get>
- + <https://docs.microsoft.com/tr-tr/azure/data-factory/quickstart-create-data-factory-rest-api>



# Thank you!

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