

Azure Data Factory Course Syllabus

Introduction

- Overview
- Introduction to Azure Data Factory
- What's New in Azure Data Factory

Create data factory - User interface (UI)

- Prerequisites
- Azure Storage account
- Create a data factory
- Create a linked service
- Create datasets
- Create a pipeline
- Debug the pipeline
- Trigger the pipeline manually
- Monitor the pipeline
- Trigger the pipeline on a schedule

Create data factory - Copy data tool

- Prerequisites
- Azure subscription
- Azure roles
- Azure Storage account
- Create a data factory
- Start the Copy Data tool

Create an Azure Data Factory using Azure CLI

- Prerequisites
- Prepare a container and test file
- Create a data factory
- Create a linked service and datasets
- Create and run the pipeline
- Clean up resources

Create an Azure Data Factory using PowerShell

- Prerequisites
- Azure Storage account
- Azure PowerShell
- Create a data factory
- Create a linked service
- Create datasets
- Create a pipeline
- Create a pipeline run
- Monitor the pipeline run
- Review deployed resources
- Clean up resources

Create a data factory and pipeline using .NET SDK

- Prerequisites
- Create an application in Azure Active Directory
- Create a Visual Studio project
- Install NuGet packages
- Create a data factory client
- Create a data factory
- Create a linked service
- Create a dataset
- Create a pipeline
- Create a pipeline run
- Monitor a pipeline run
- Run the code

Create a data factory and pipeline using Python

- Prerequisites
- Create and upload an input file
- Install the Python package
- Create a data factory client
- Create a data factory
- Create a linked service
- Create datasets
- Create a pipeline
- Create a pipeline run
- Monitor a pipeline run
- Full script
- Run the code
- Clean up resources

Create an Azure data factory and pipeline by using the REST API

- Prerequisites
- Set global variables
- Authenticate with Azure AD
- Create a data factory
- Create linked services
- Create datasets
- Create a pipeline
- Create pipeline run
- Parameterize your pipeline
- Create parameterized input dataset
- Create parameterized output dataset
- Create parameterized pipeline
- Create pipeline run with parameters
- Monitor pipeline
- Verify the output
- Clean up resources

Create an Azure Data Factory using ARM template

- Prerequisites
- Review template
- Deploy the template
- Review deployed resources
- Clean up resources

Copy and ingest data

- Copy data tool
- Copy activity in pipeline
- Copy data from on-premises to the cloud
- Amazon S3 to ADLS Gen2
- Incremental copy pattern overview
- Incremental pattern with change tracking
- Incremental SQL DB single table
- Incremental SQL DB multiple tables
- CDC copy pipeline with SQL MI
- Copy from SQL DB to Synapse SQL Pools
- Copy SAP BW to ADLS Gen2
- Copy Office 365 to Azure Blob Store
- Bulk copy multiple tables

- **Copy pipeline with managed VNet**

Transform Data Transform Data with Mapping Data Flows

- **Prepare data with data wrangling**
- **Using External Services**
- **Control Flow**
- **Run SSIS Packages in Azure**
- **Lineage**
- **End to end Labs**
- **Managed Virtual Networks**
- **Self-hosted integration runtime**