

Updated on 24/01/2024

Sign up

Azure Data Factory training

2 days (14 hours)

Presentation

Azure Data Factory is one of the most powerful solutions for data integration. ADF uses the Microsoft Azure platform to connect and monitor data 24/7. More than 90 connectors are integrated to orchestrate data on a massive scale.

Data ingestion, preparation and transformation are managed solely by the cloud service provider. You can also keep your existing SSIS packages, tools and processes.

Azure Data Factory is easy to use, making it simple to create ETL and ELT processes with or without code. What's more, the platform can help you cut costs, as rates are based on usage.

Our Azure Data Factory training course will introduce you to the various features of ADF, and show you how to transform and orchestrate your data flows.

Objectives

- Understanding the specifics of Azure Data Factory
- Integrating data with different connectors
- Orchestrating and securing data flows
- Transforming data with ADF

Target audience

- Developers
- Data Engineer
- Architects
- System administrators

- Data miners
- Data scientists
- Data analysts
- Business intelligence analysts
- Market intelligence analysts

Prerequisites

- Knowledge of databases
- Knowledge of SQL and Python.
- Have an Azure account, at least a test account

Technical requirements

- Have an Azure account with creation rights

Azure Data Factory training program

Cloud concepts

- Cloud models
- Cloud benefits
- Cloud services

Main Azure services

- Azure architectural components
- Main Azure resources

Core solutions and management tools

- Azure core solutions
- Azure management tools

Azure Data Factory V2

- Introduction
- Features
- ETL VS ELT
- ADF VS SSIS
- Connectors
- Components

- Tools

Demonstration

- Architecture definition
- Resource creation
- Creating linked services
- Trigger creation
- Creating DataSets
- Activity configuration
- Copy data from source to destination
- Defining an Azure Data flow
- Monitoring

Add-on module (+1 day) Azure

DevOps

- Introducing Azure DevOps
- Configuration
- Connecting ADF with Git
- Using the master branch
- CI/CD with ADF

Advanced monitoring and troubleshooting

- ADF Monitoring & Management application features
- Monitoring dashboard
- Pipeline monitoring and runtime integration
- Understanding the source of the error
- Alert configuration
- Boosting business

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or learning difficulties.

in-company security (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.