

Lab 4 – Azure Data Factory

Advanced Integrations Workshop @ EPPC

What ever you dream of – in Functions you can build it!

Azure Data Factory





CodeFree ETL as a service

Ingest



- Multi-cloud and on premise hybrid copy data
- 100+ native connectors
- Serverless and auto scale
- Use wizard for quick copy jobs

Control Flow



- Design coderee data pipelines
- Generate pipelines via SDK
- Utilize workflow constructs: loops, branches, conditional execution, variables, parameters, ...

Data Flow



- Codefree data transformations that execute in Spark
- Scaleout with Azure Integration Runtimes
- Generate data flows via SDK
- Designers for data engineers and data analysts

Schedule

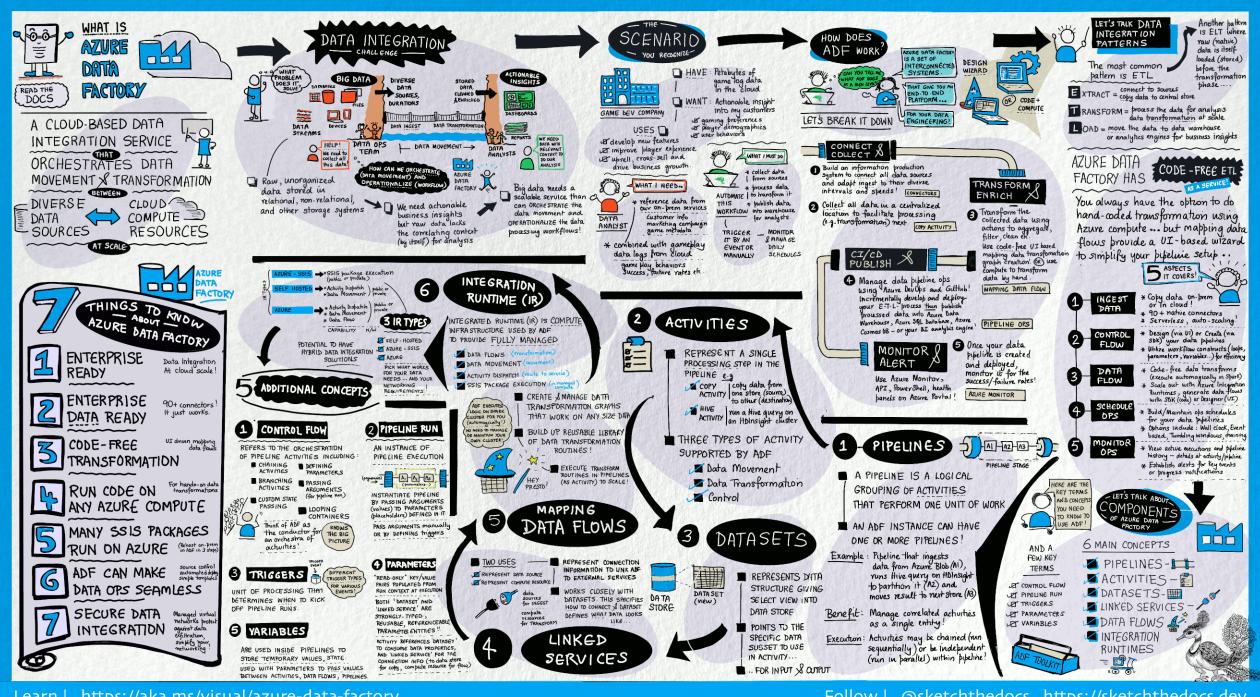


- Build and maintain operational schedules for your data pipelines
- Wall clock, evenbased, tumbling windows, chained

Monitor



- View active executions and pipeline history
- Detail activity and data flow executions
- Establish alerts and notifications



ADF Concepts

- Pipelines
- Activities
- Datasets
- Linked services
- Data Flows
- Integration Runtimes

Azure Data Factory: Use Cases

- Automate data migration from on-premises to cloud.
- Create ETL workflows for data transformation.
- Integrate data from diverse sources for analytics.

Demo: Azure Data Factory

- SaaS
- 100s customers each with individual database
- Each customer has users (userid, name, email)

- Business case: implement discovery service and single sign on
- Question: how many users registered with multiple customers do we have



Creating the demo

- Create a demo is an automation in itself
 - Use AI to help
 - You should be comfortable with reading code + errors and have some basic understanding of what's going on.
 - Rise of expert beginner
 - Beware of hallucinations
 - Prompt "how to execute sql command for azure sql database using az cli"

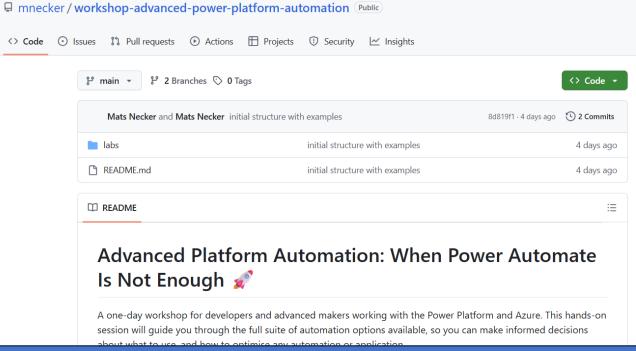
Let's build it!





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The Lab Material





https://github.com/mnecker/workshop-advancedpower-platform-automation

CONTACT US

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