Azure Synapse Analytics

An Overview

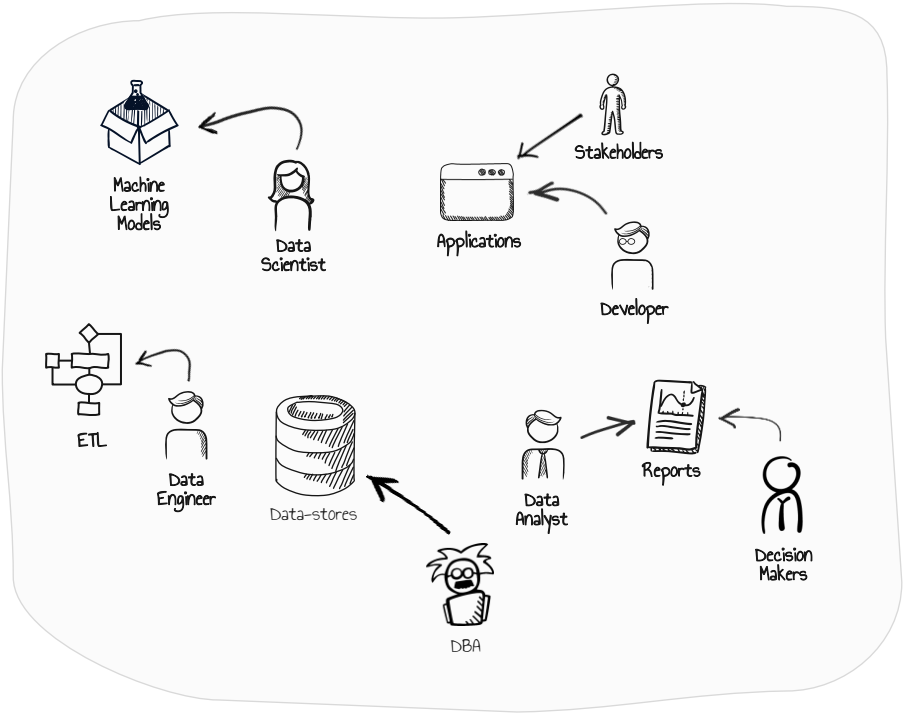
Adnan Hashmi

aka.ms/Adnan

pkstn.co/Adnan

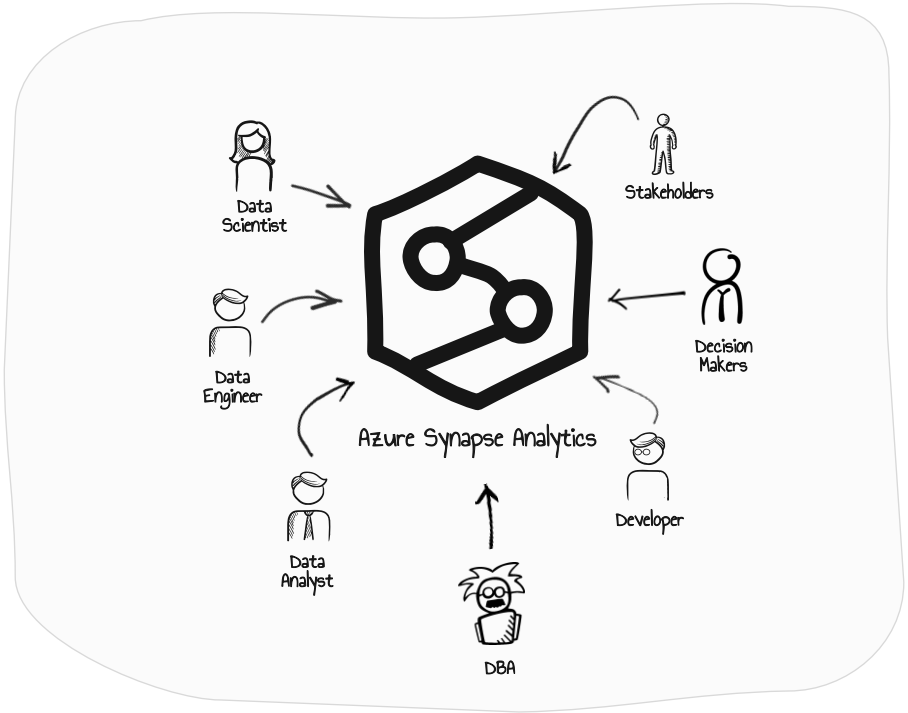
tags: azure, synapse, data, organization

WHY Azure Synapse Analytics?

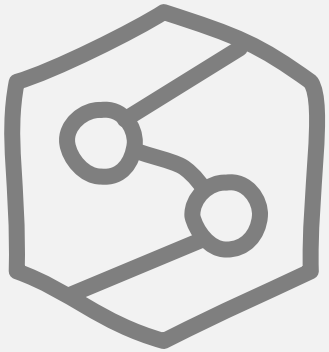


tags: azure, synapse, data, organization

WHY Azure Synapse Analytics?



Typical Organization

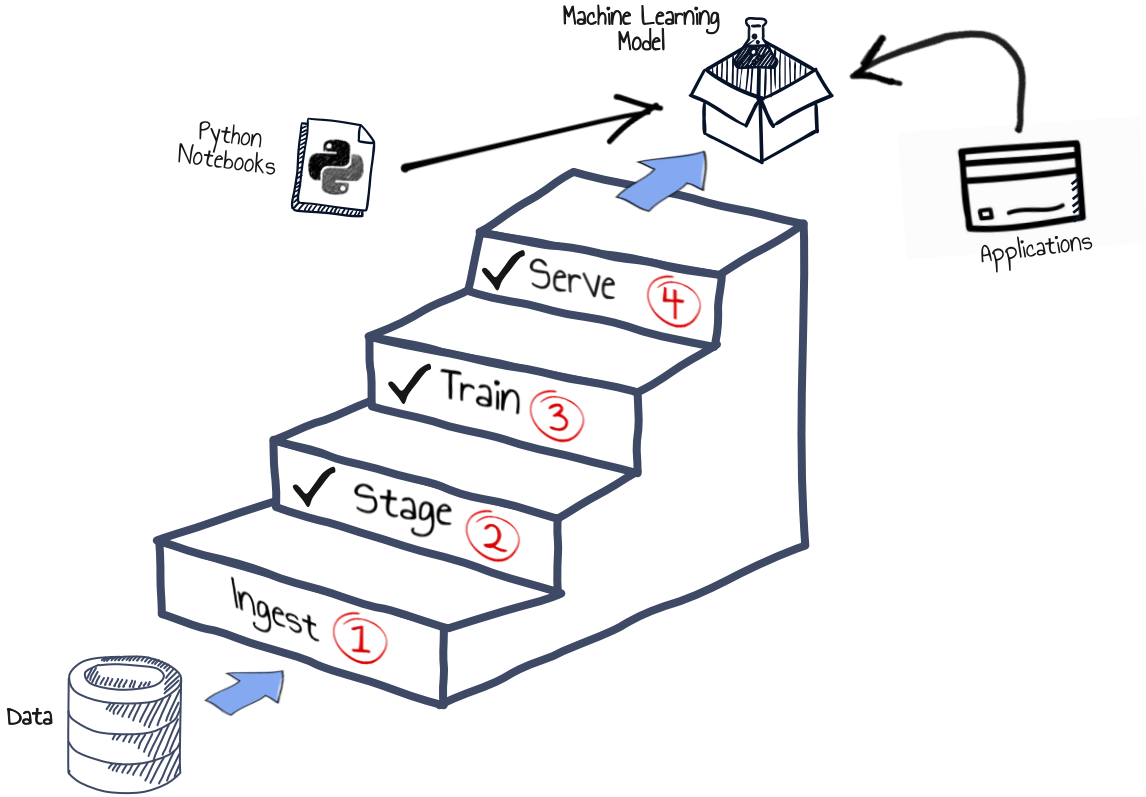


Data Workflow

A look at how data flows
within an organization

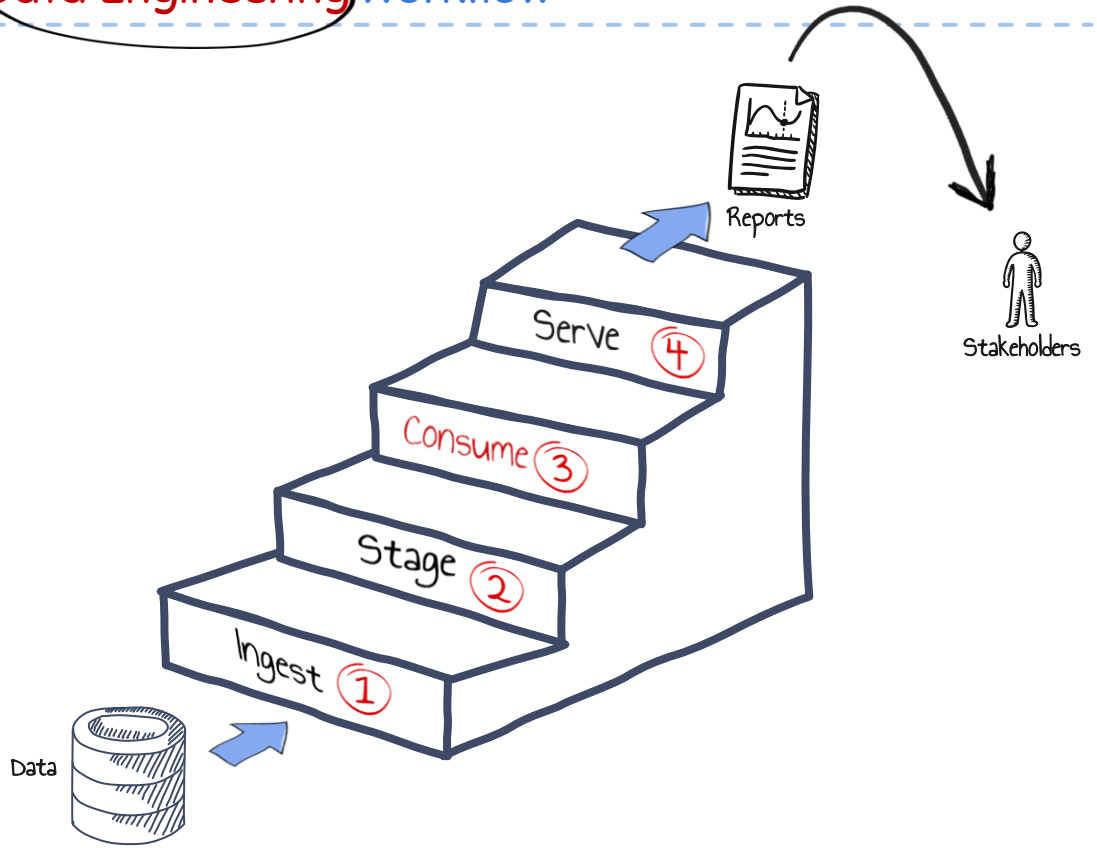
tags: machine learning, workflow, notebooks

Typical Machine Learning Workflow



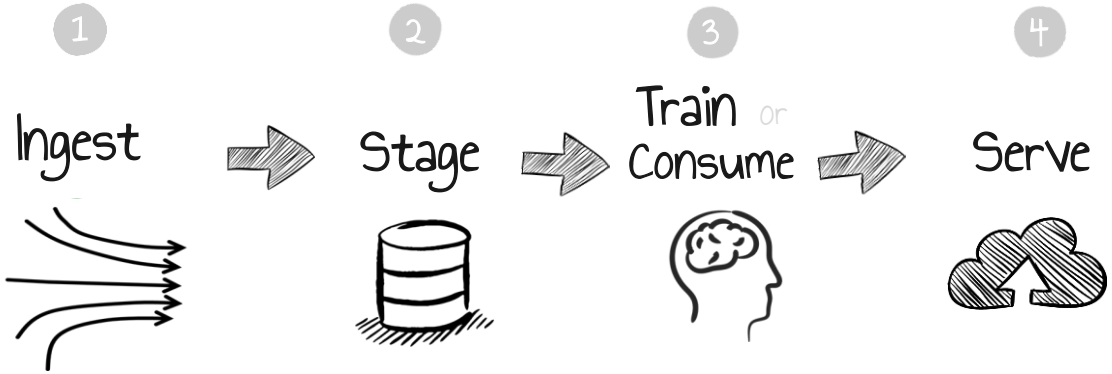
tags: data engineering, workflow, reports

Typical Data Engineering Workflow



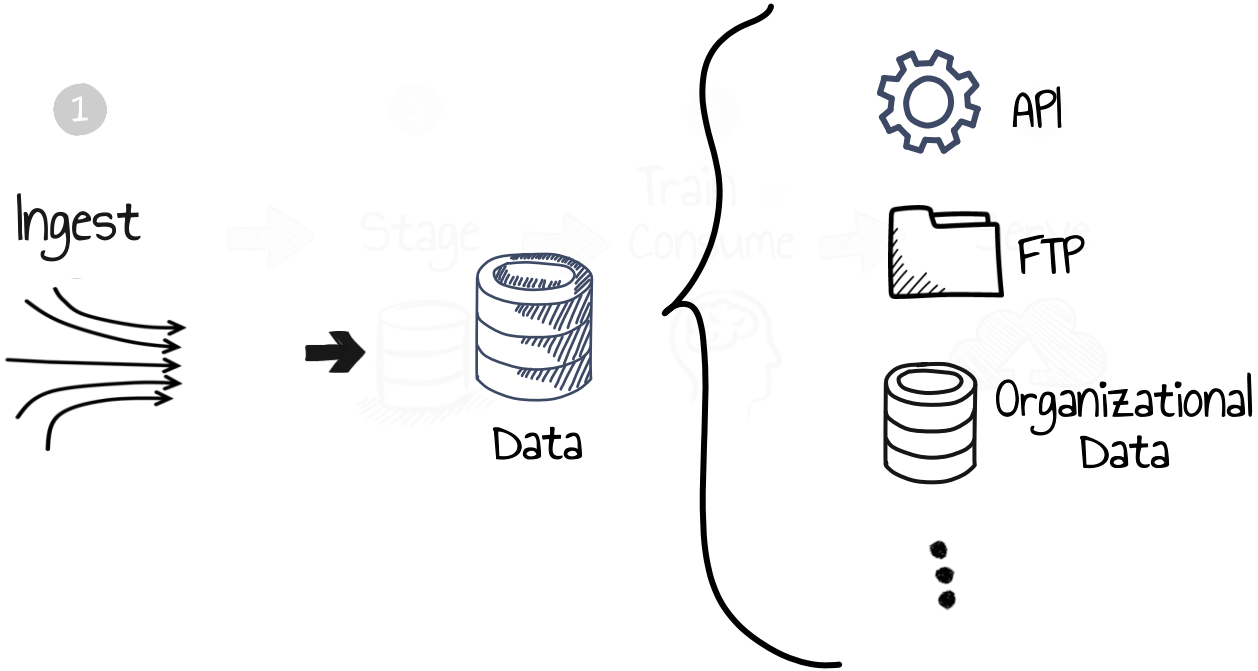
tags: data, workflow

✓ Data Workflow



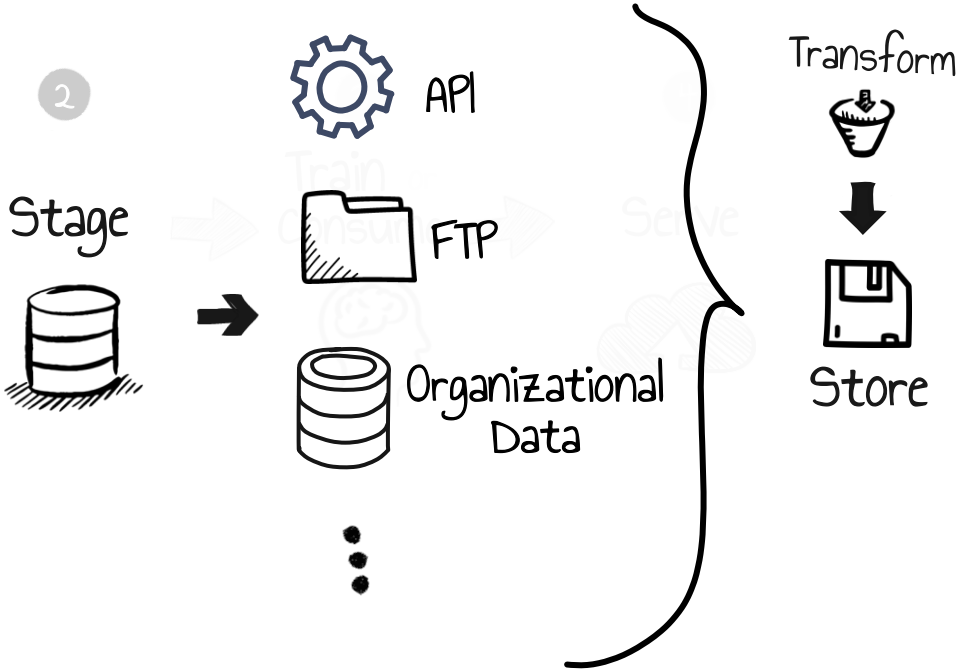
tags: ingest, data, workflow

Data Workflow



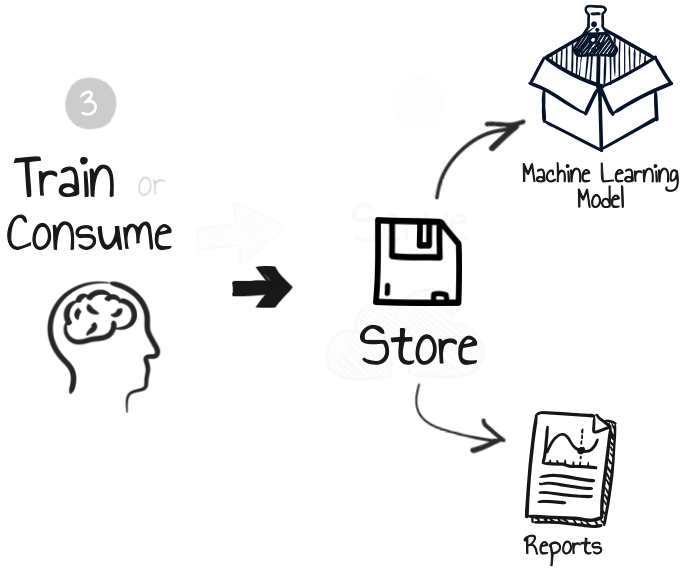
tags: stage, data, workflow, transform, store

Data Workflow



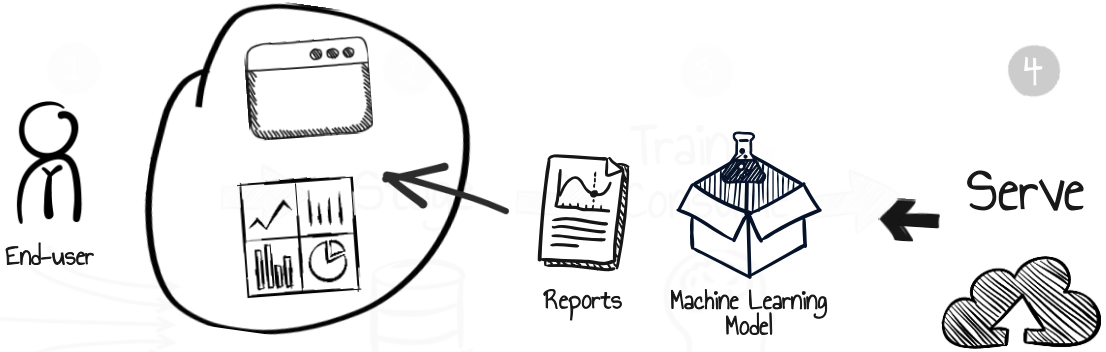
tags: train, consume, data, workflow, store, machine learning, model, reports

Data Workflow



tags: serve, data, workflow, store, machine learning, model, reports, user

Data Workflow

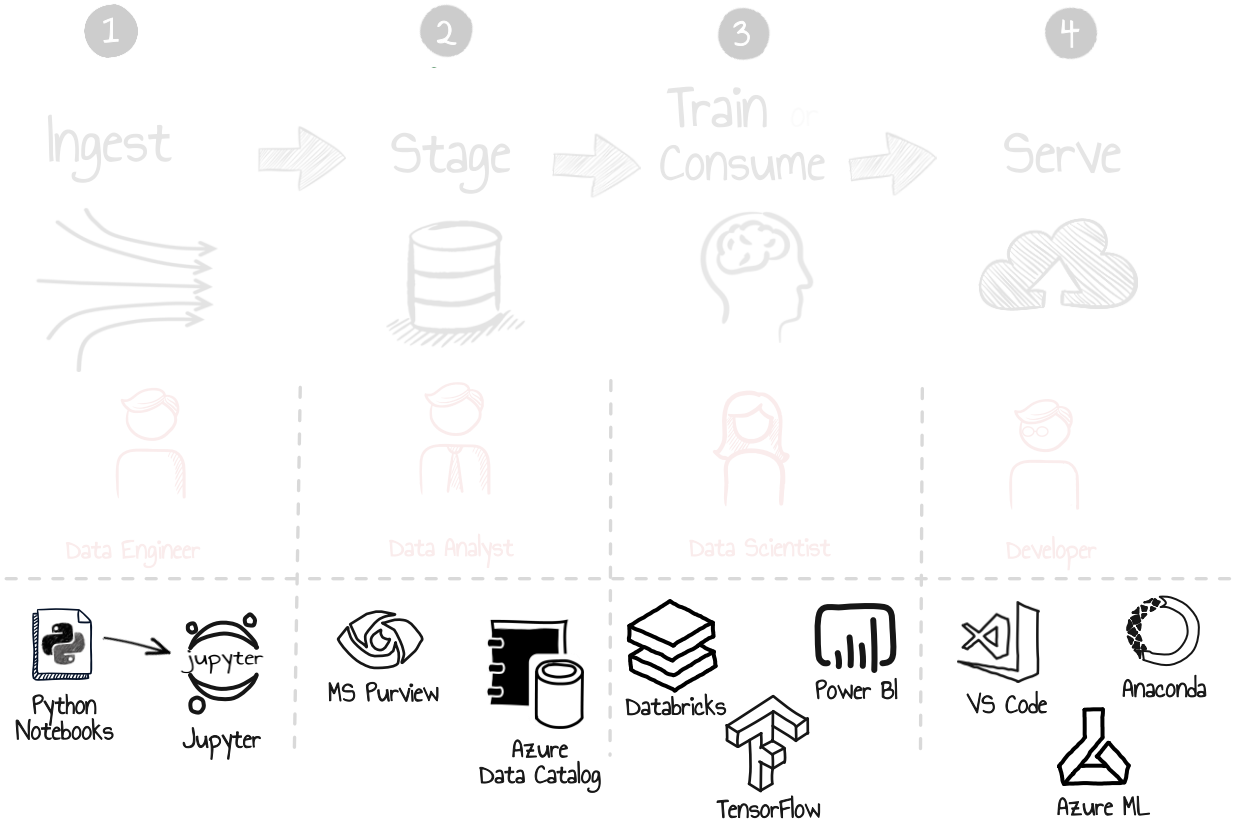


tags: data, workflow, engineer, analyst, scientist, developer

Data Workflow People

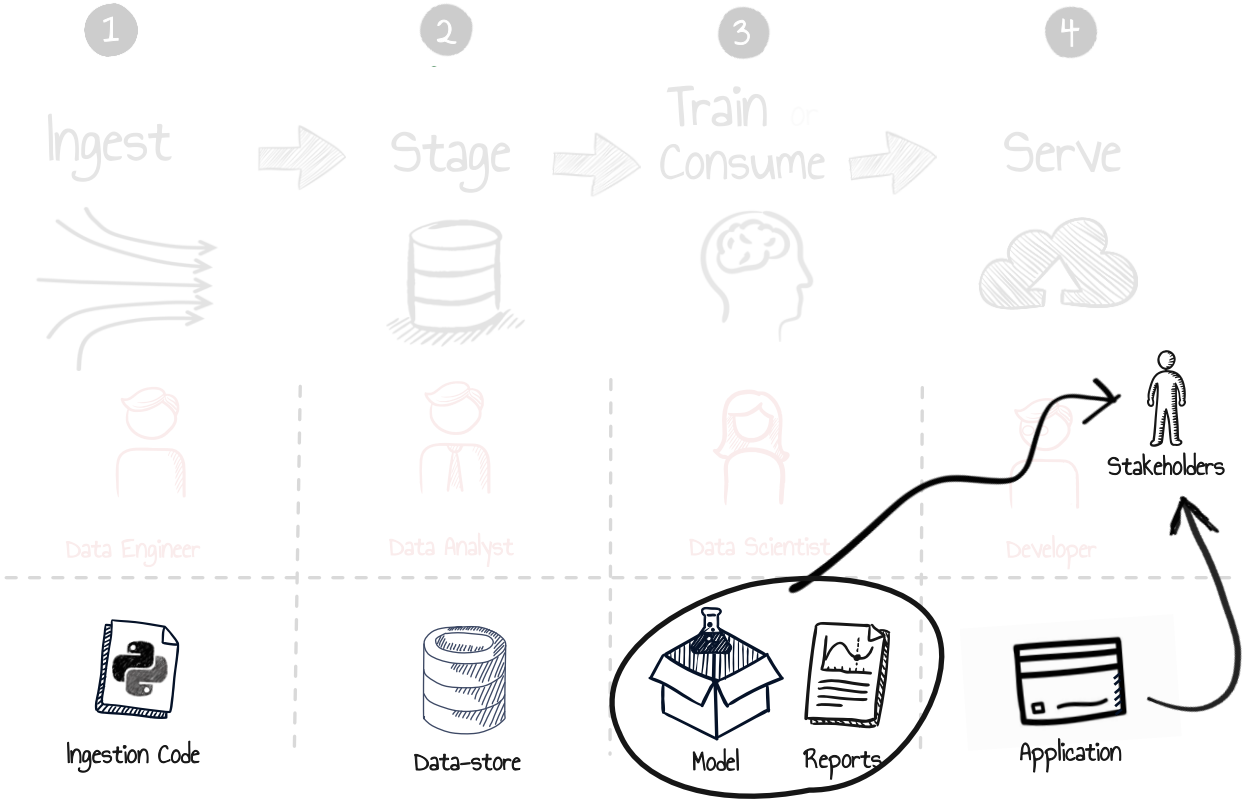
tags: data, workflow, jupyter, purview, databricks, power bi, tensorflow, anaconda, azure

Data Workflow Tools

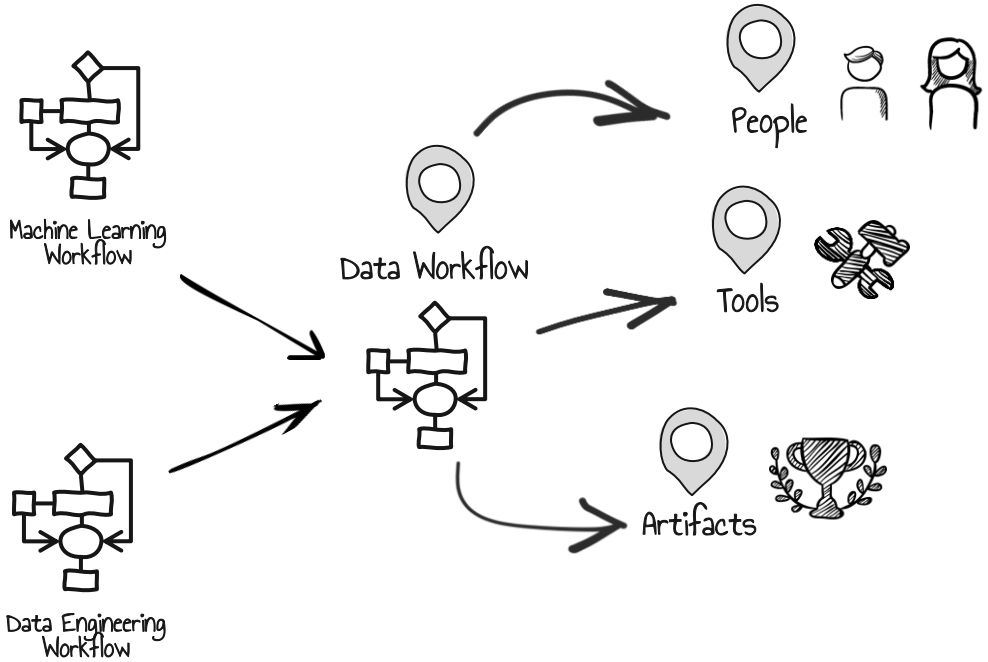


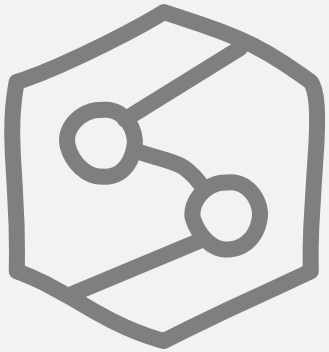
tags: data, workflow, code, datastore, model, report, application, stakeholder

Data Workflow Artifacts



Section Recap



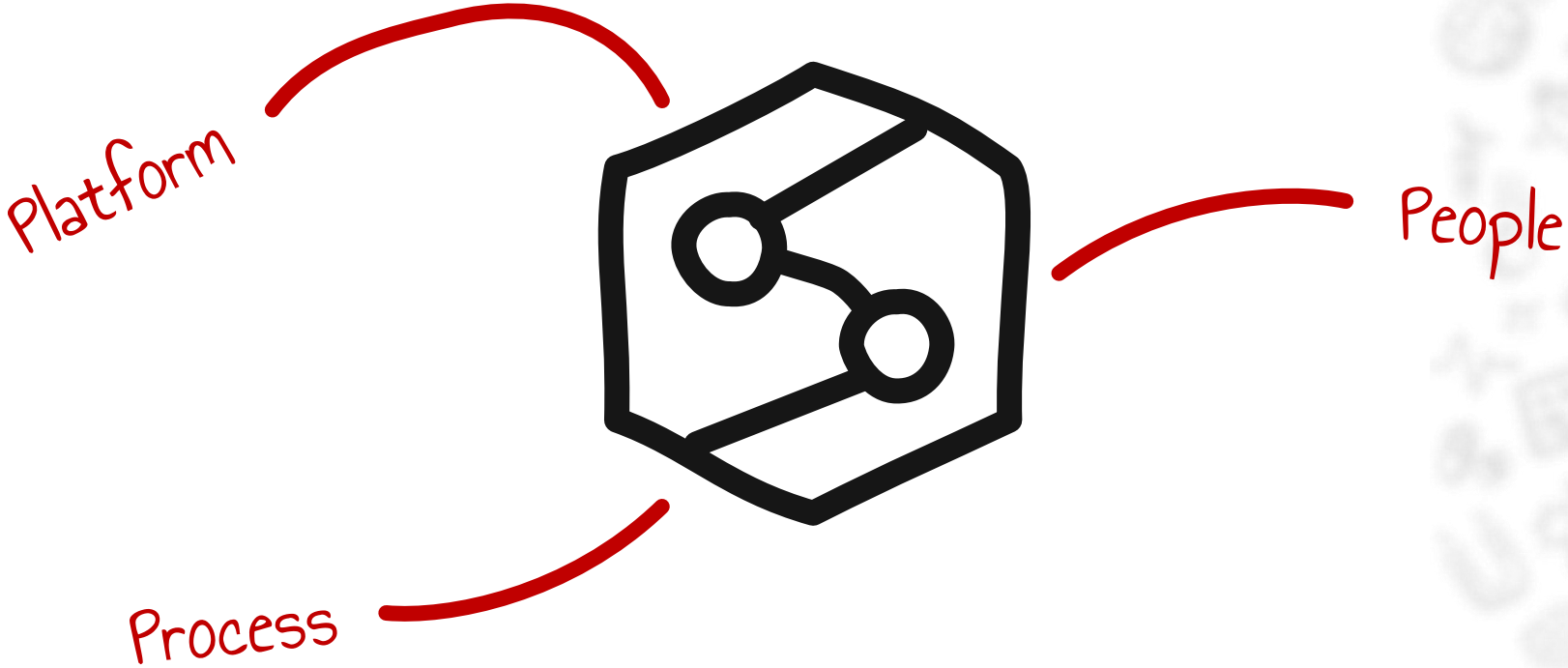


Components

Architecture and pieces that make up
Azure Synapse Analytics

tags: azure, synapse, analytics

Evaluating a technology



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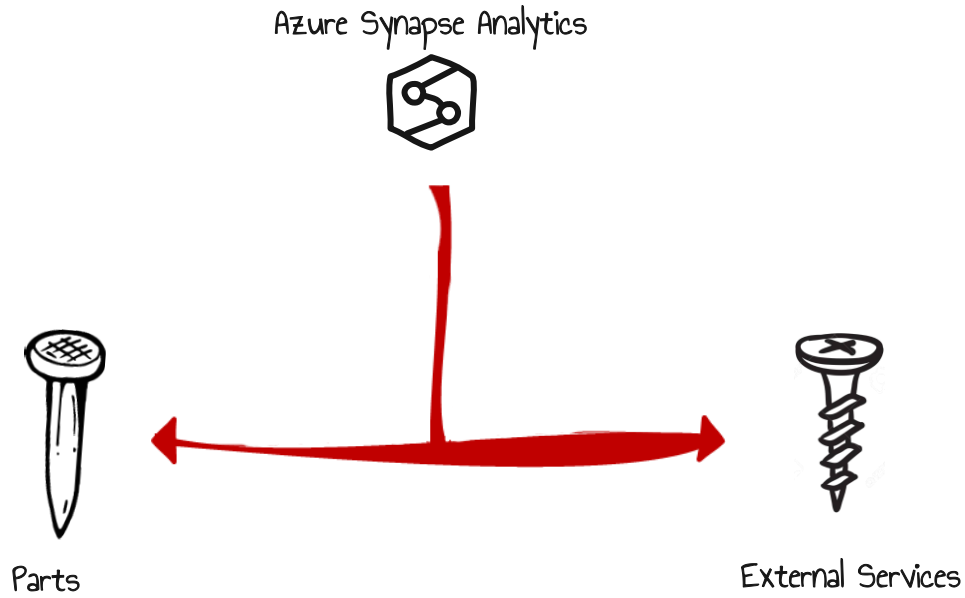
At a high level...



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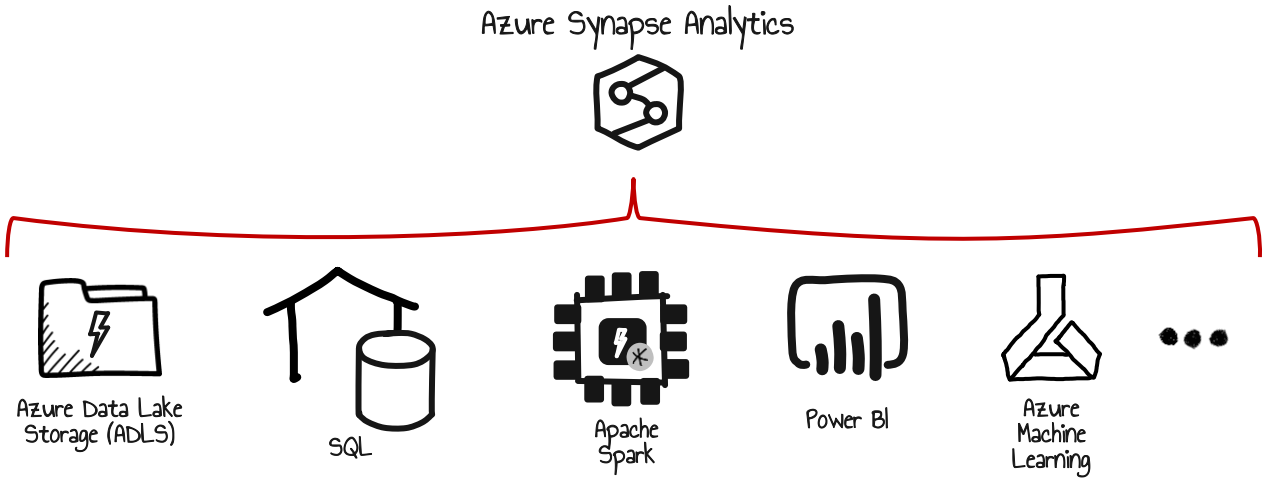
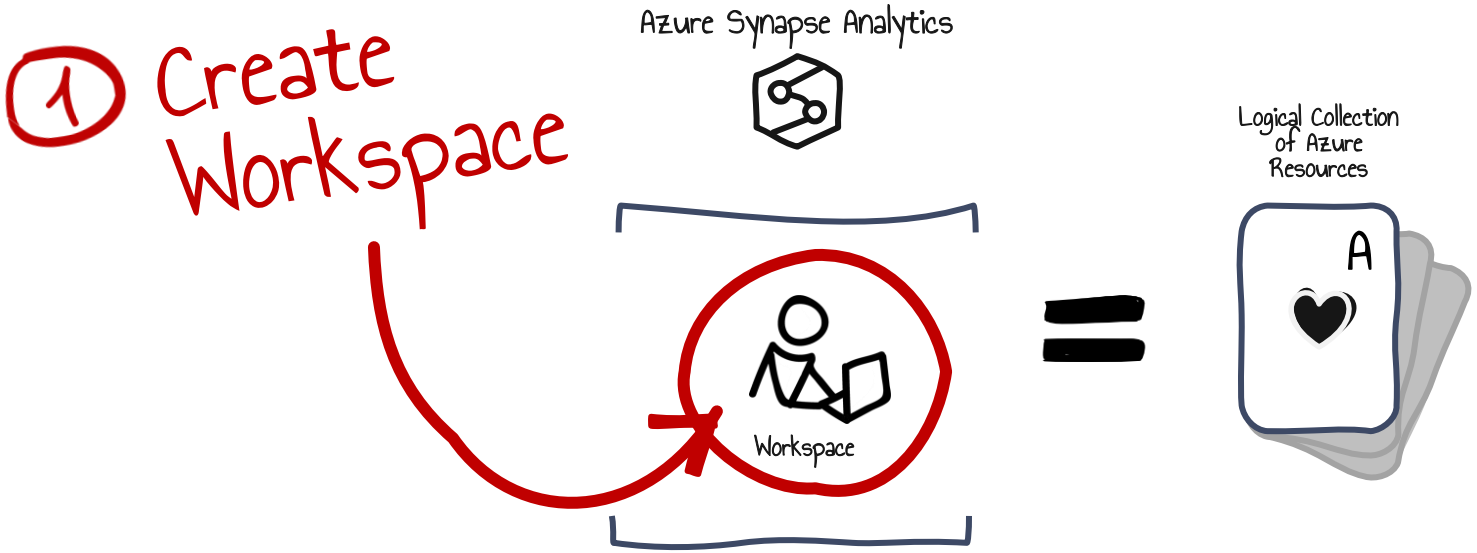


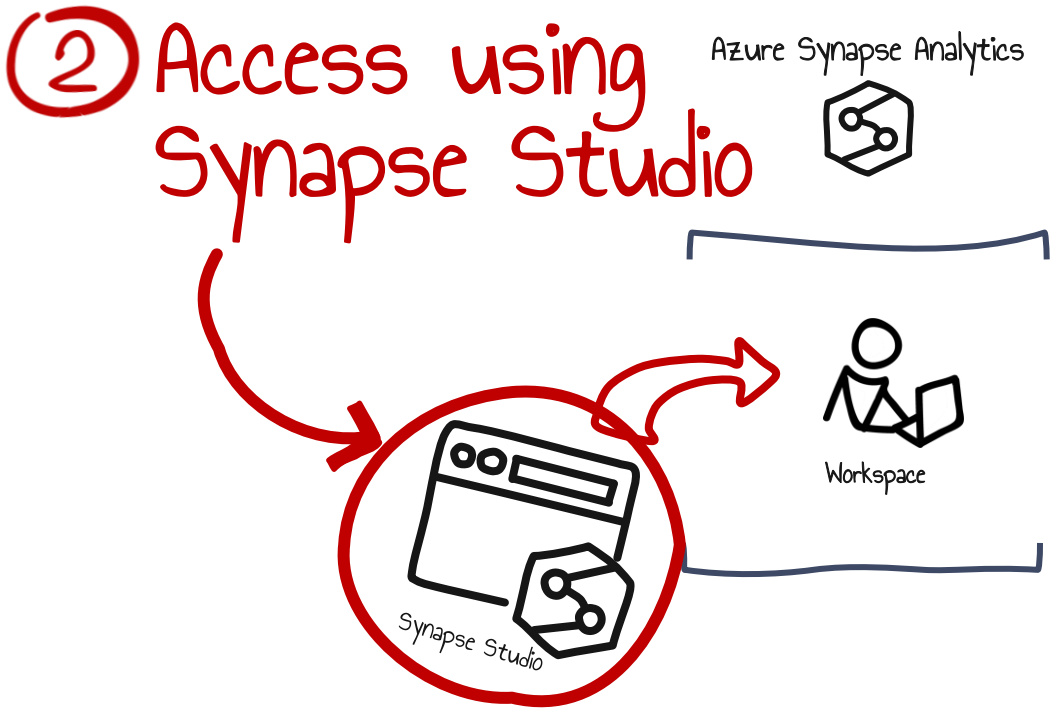
tags: workspace, portal, azure

Workspace



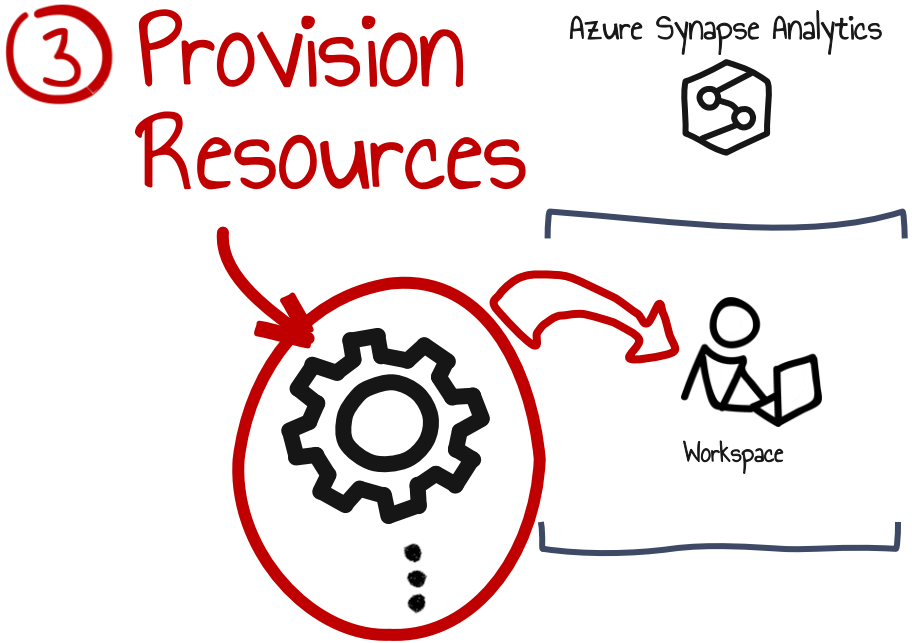
tags: synapse, studio

Synapse Studio



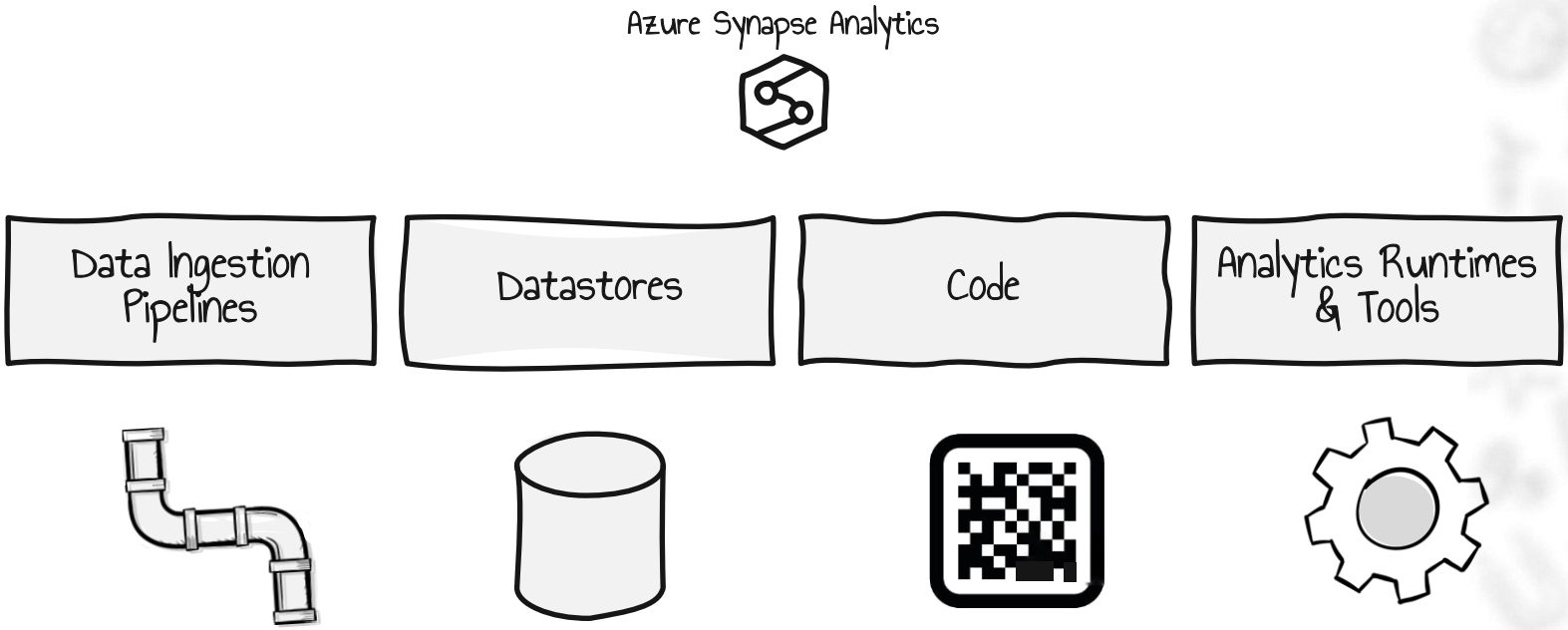
tags: synapse, resources

Synapse Studio



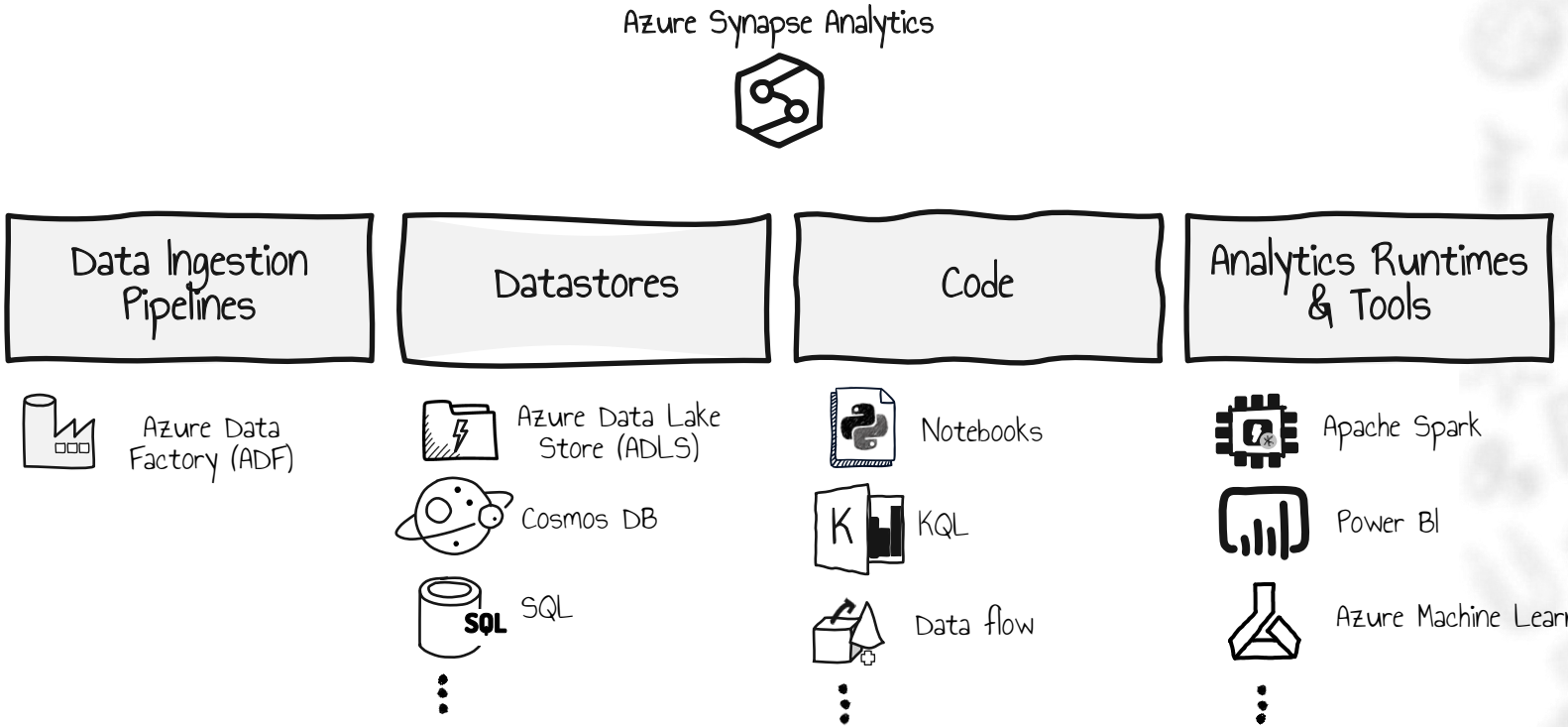
tags: synapse, platform

Azure Synapse Analytics - Platform



tags: synapse, platform, components

Azure Synapse Analytics - Platform



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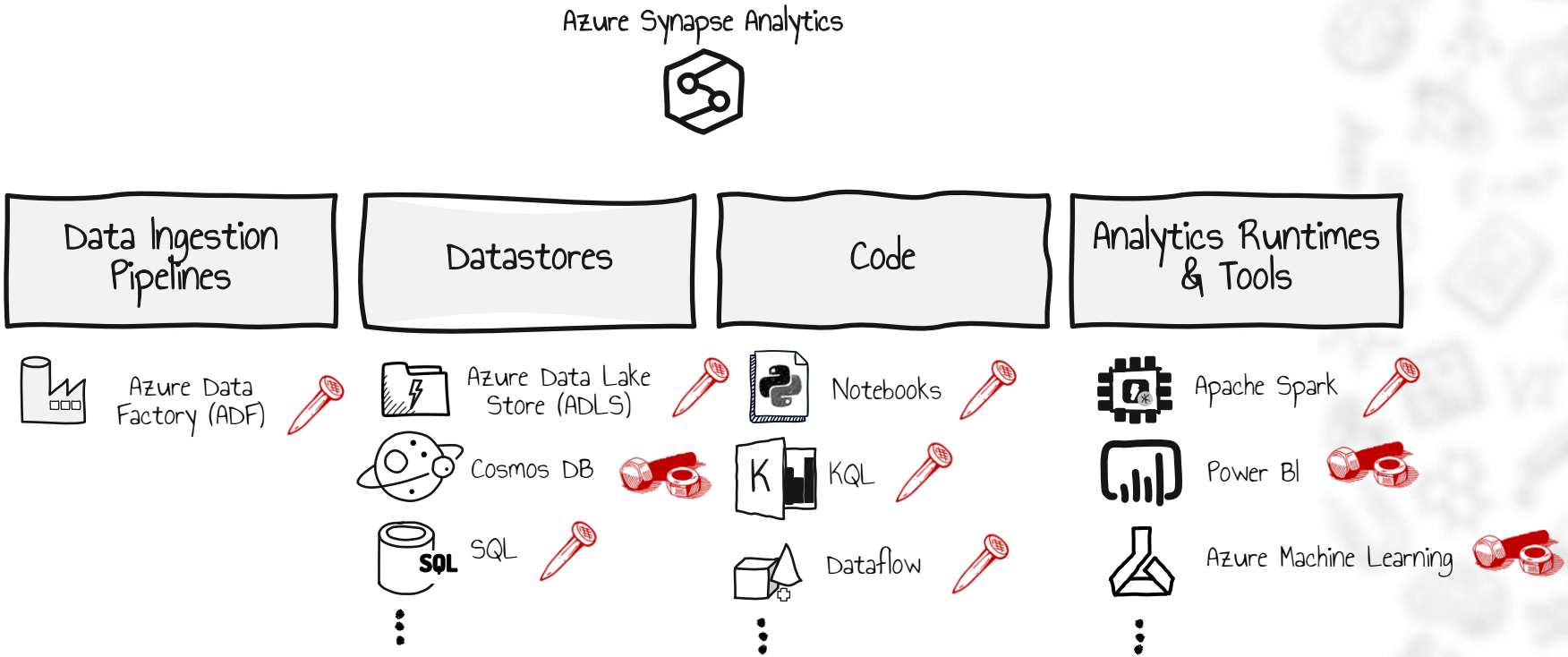
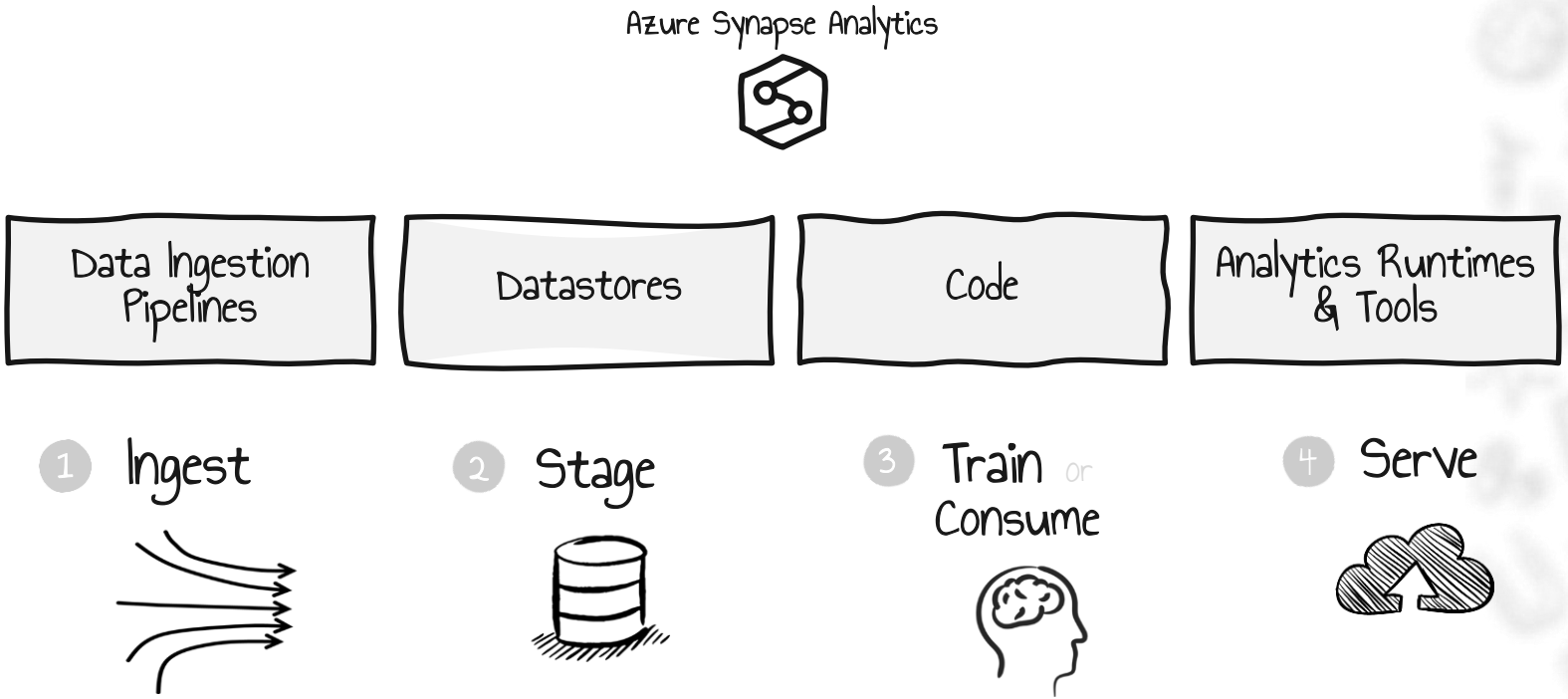
Azure Synapse Analytics - Platform



tags: synapse, platform, workflow

Azure Synapse Analytics - Platform

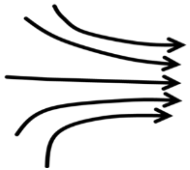


tags: synapse, process, workflow

Azure Synapse Analytics – Process

Azure Synapse Analytics

1 Ingest



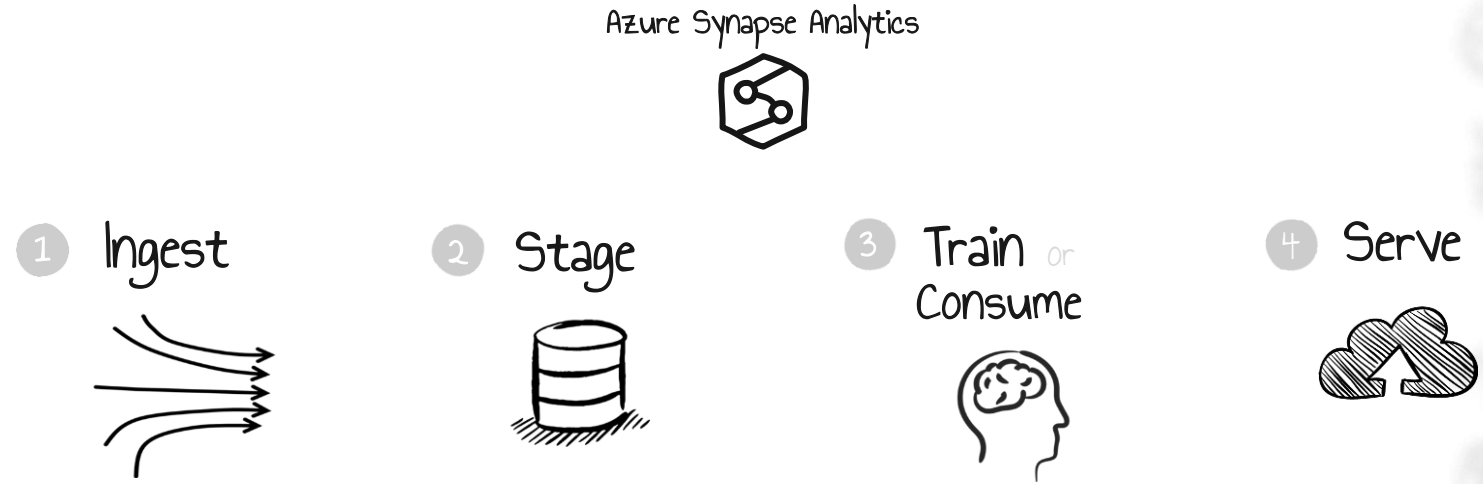
2 Stage

3 Train or Consume

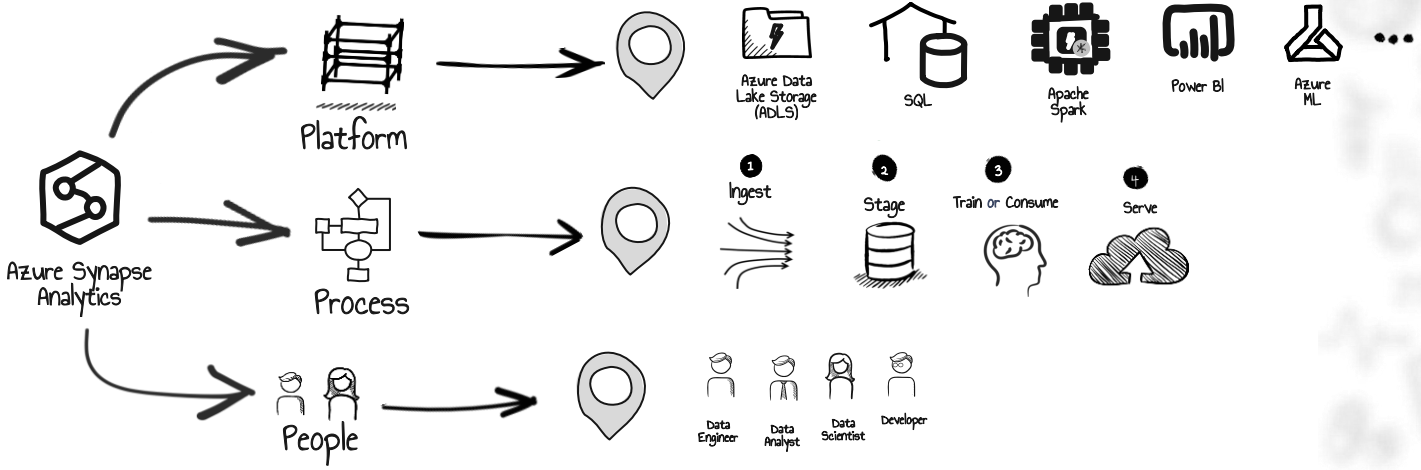
4 Serve

tags: synapse, people, workflow

Azure Synapse Analytics - People



Section Recap



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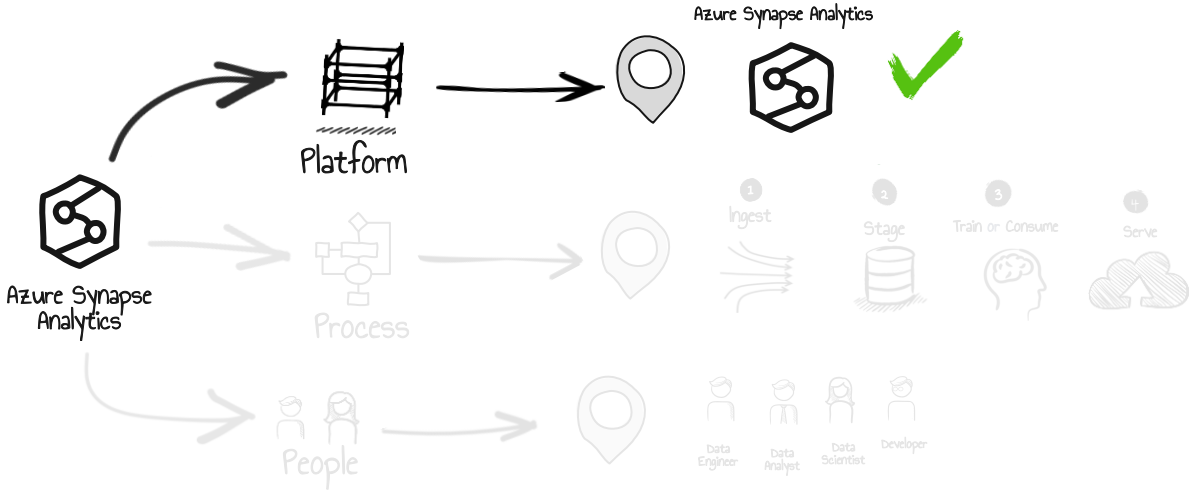
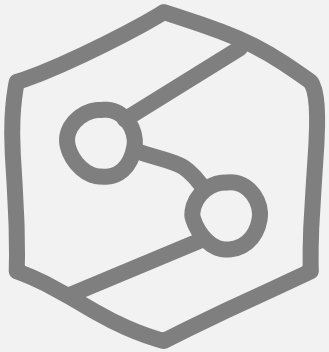


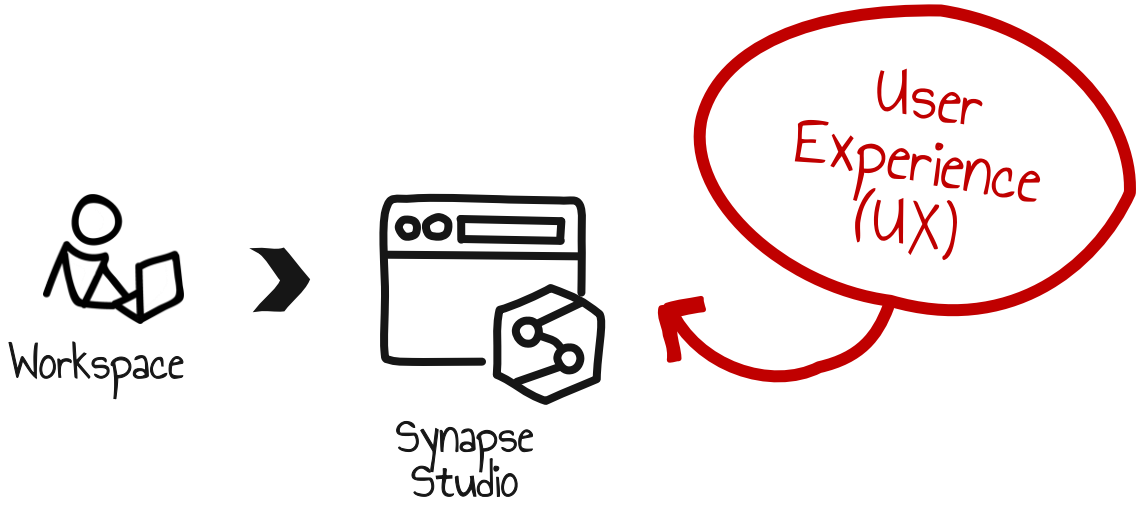


Platform

A closer look at
Azure Synapse Analytics

tags: synapse, studio

Synapse Studio



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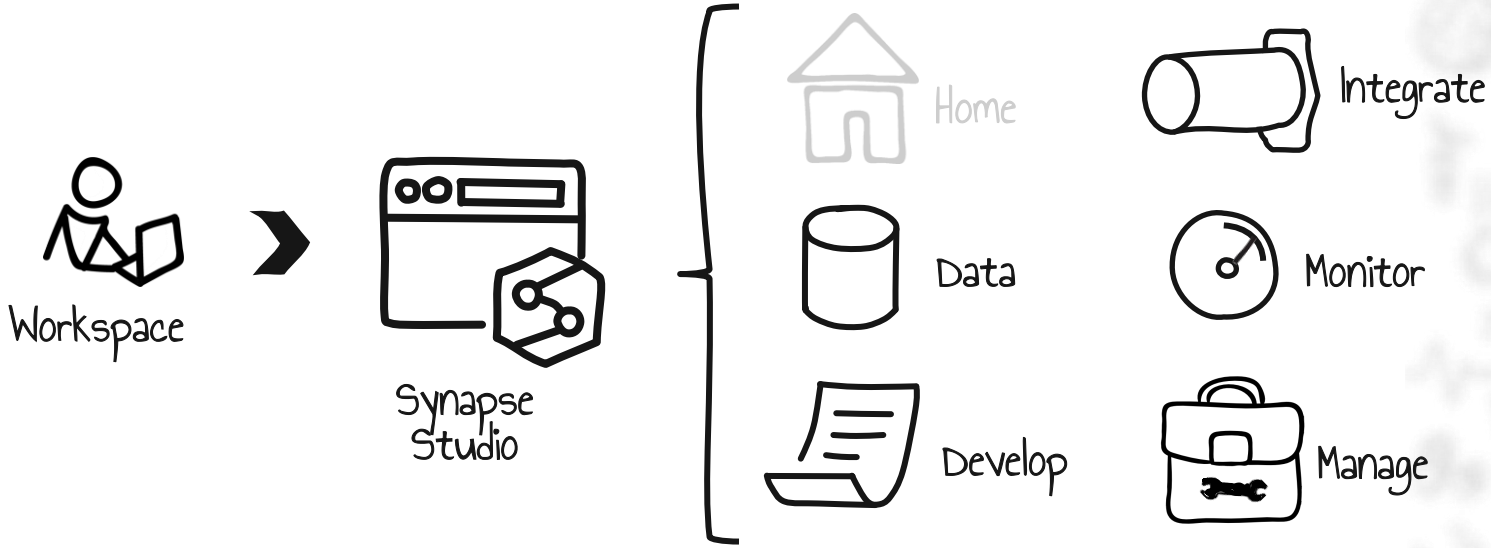
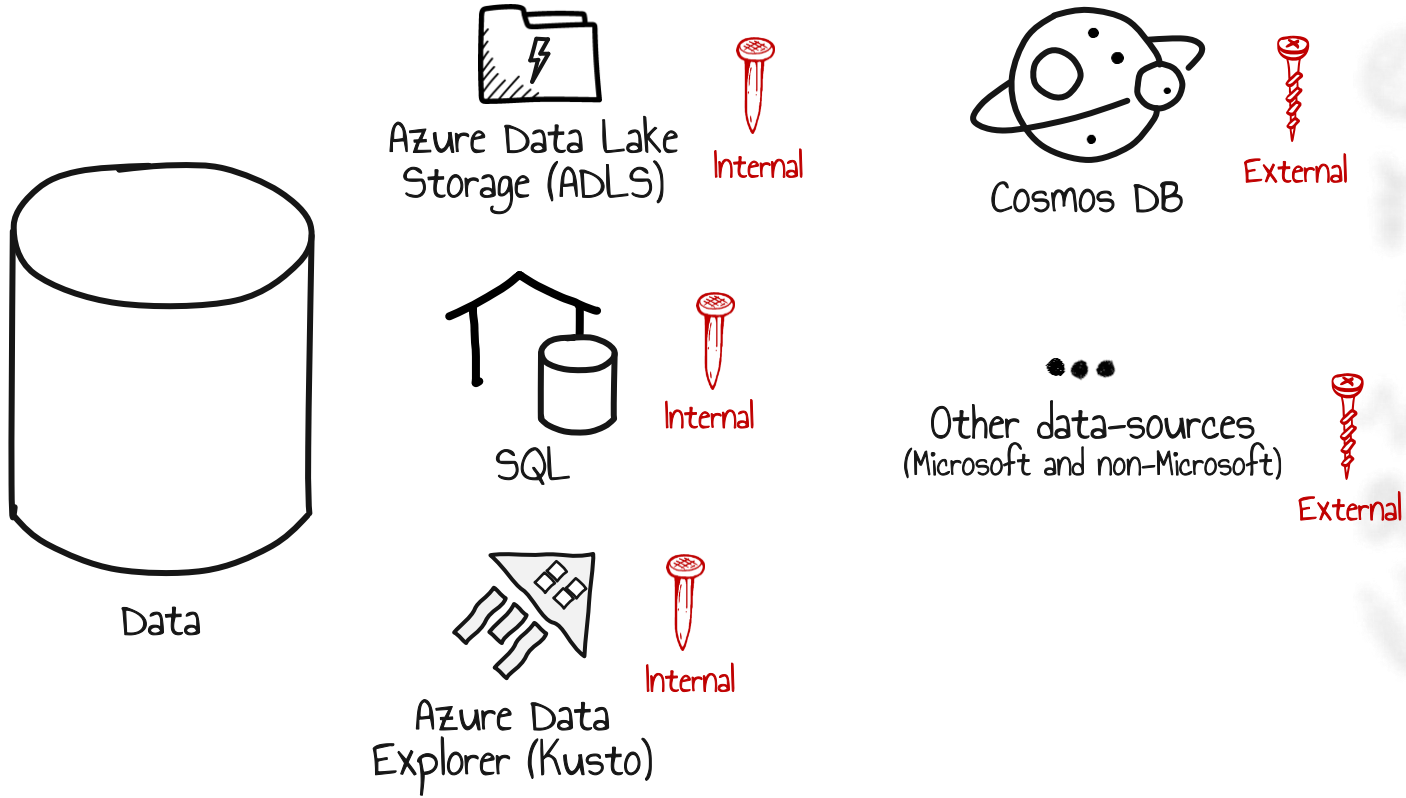
Synapse Studio



tags: data, sources, linked

Azure Synapse Analytics – Data Sources



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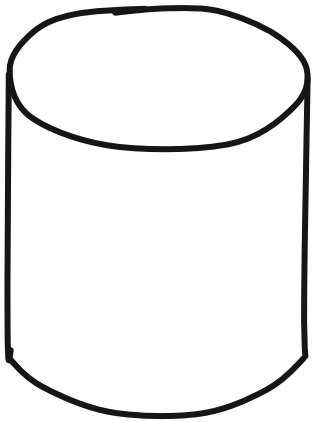
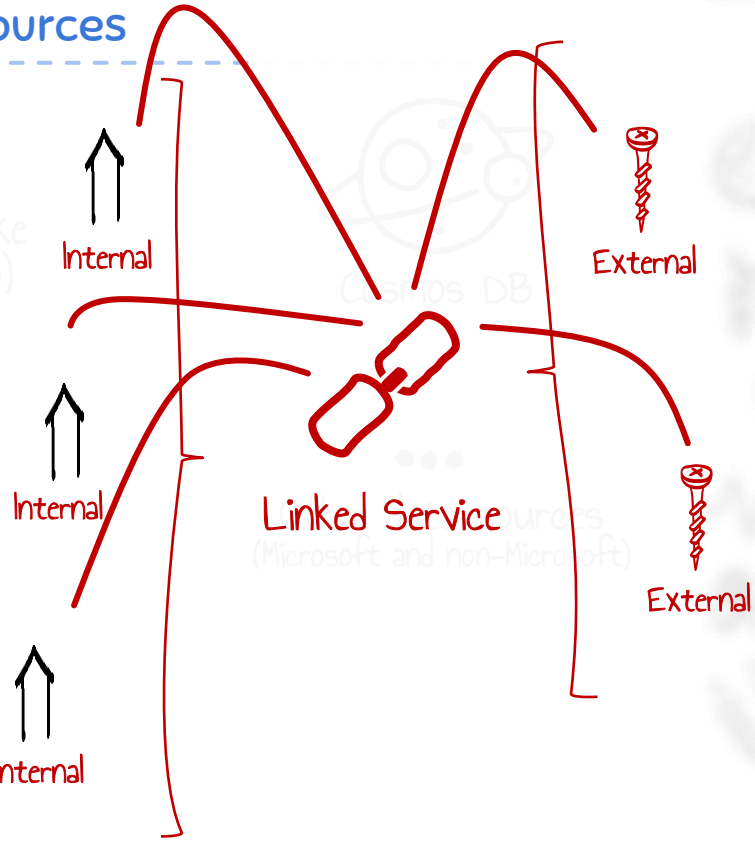
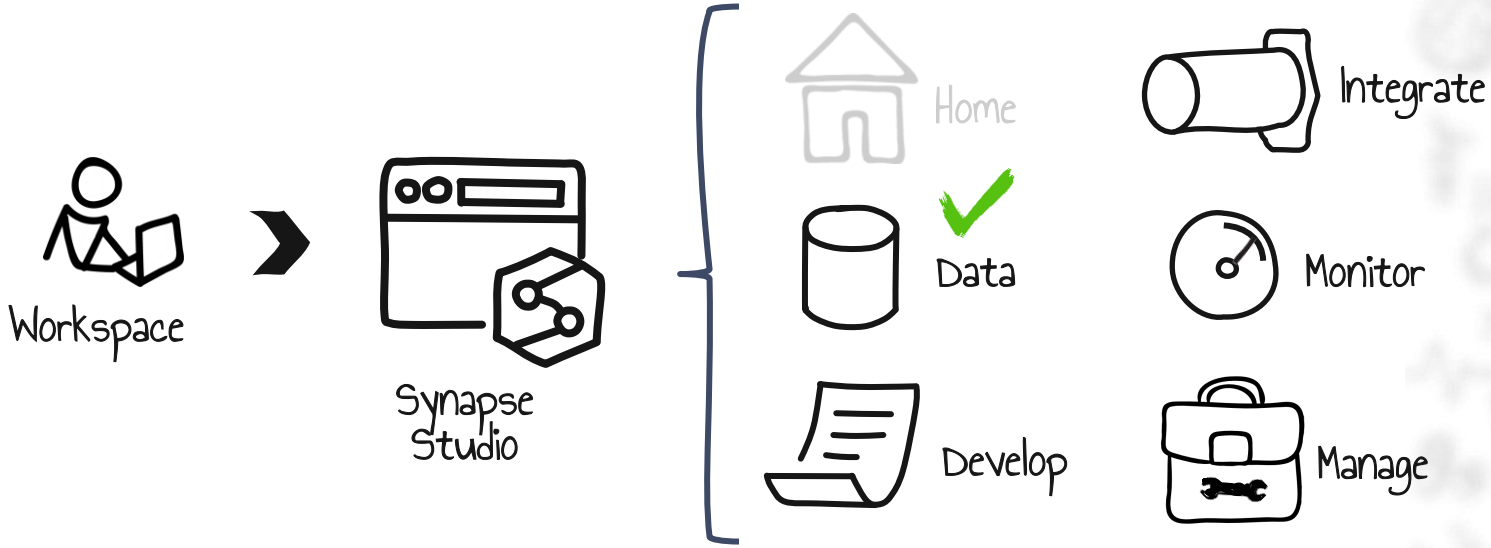
Azure Synapse Analytics – Data Sources





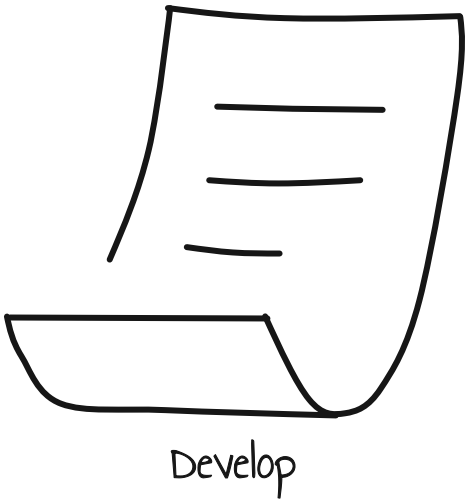
tags: synapse, studio

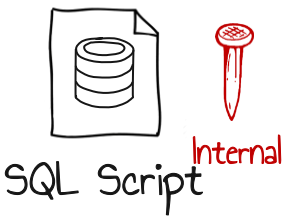
Synapse Studio

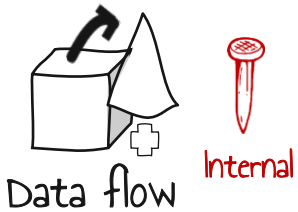


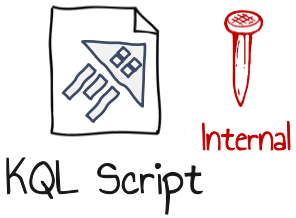
tags: code, develop. script

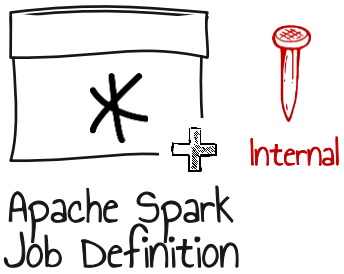
Azure Synapse Analytics – Code





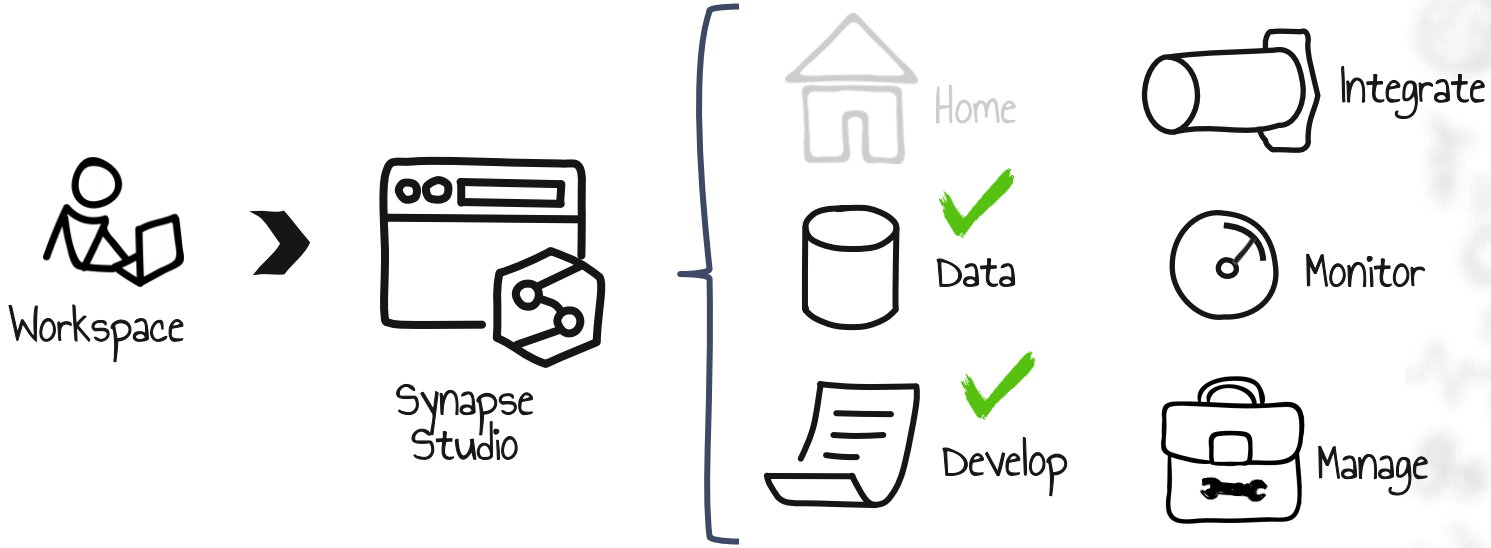






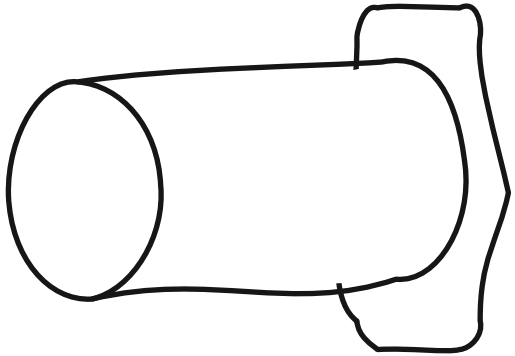
tags: synapse, studio

Synapse Studio

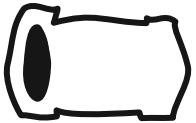


tags: etl, elt, factory

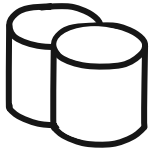
Azure Synapse Analytics – Data Movement



Integrate



Pipeline

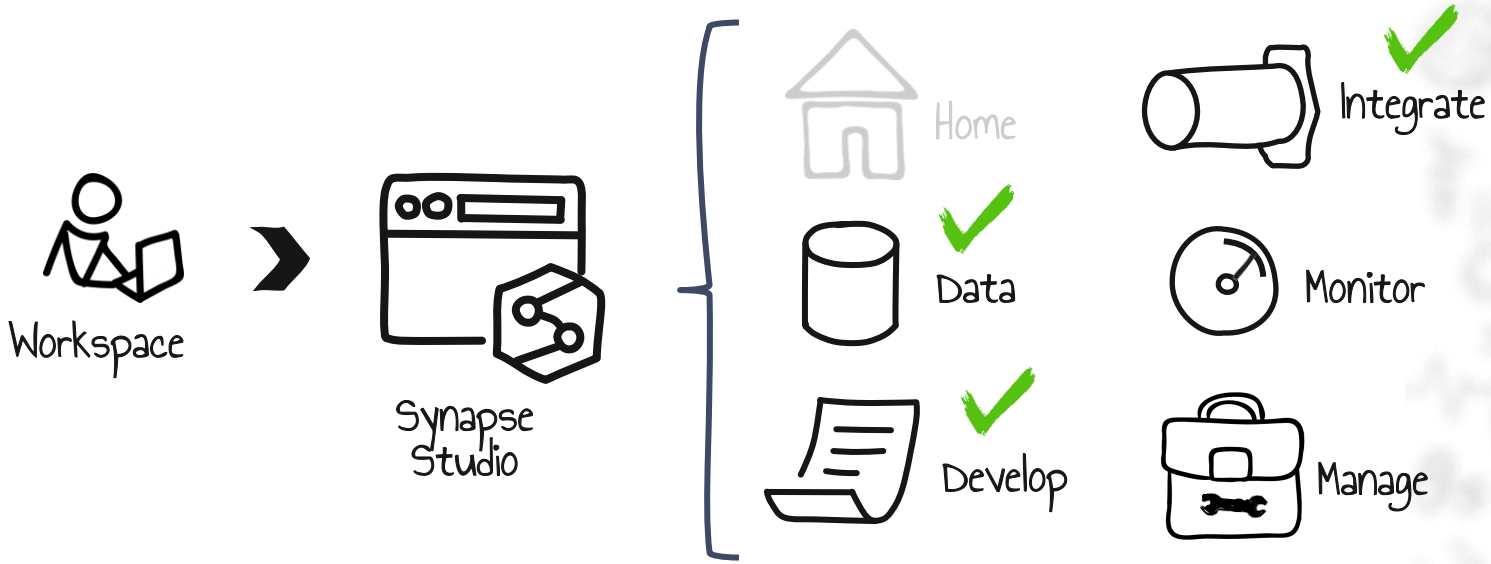


Copy Data tool

Other artifacts
(Imported and from gallery)

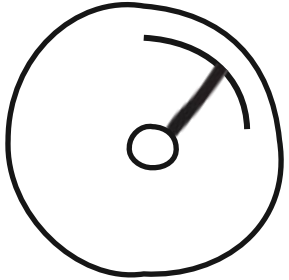
tags: synapse, studio

Synapse Studio



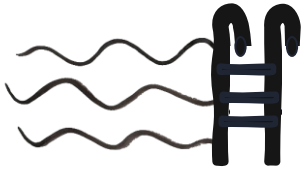
tags: synapse, pools, dedicated, serverless

Azure Synapse Analytics – Maintenance



Monitor

Manage



Analytics Pools

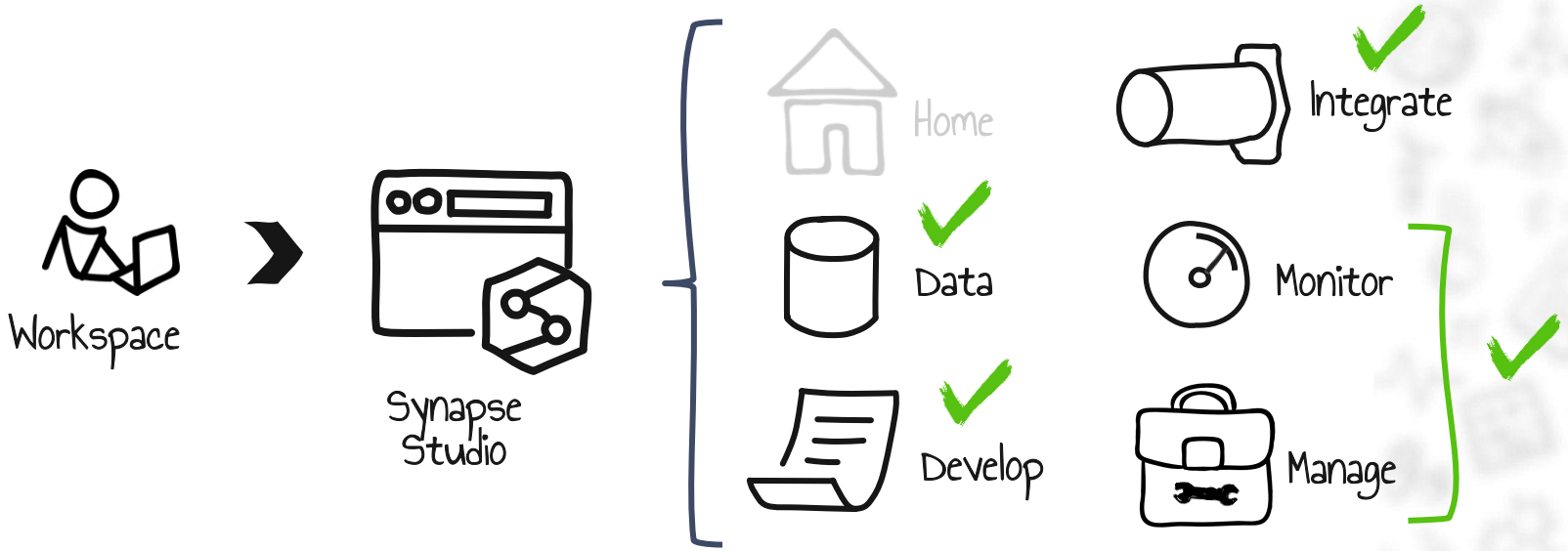
Connections

Runtimes

Security

tags: synapse, studio

Synapse Studio

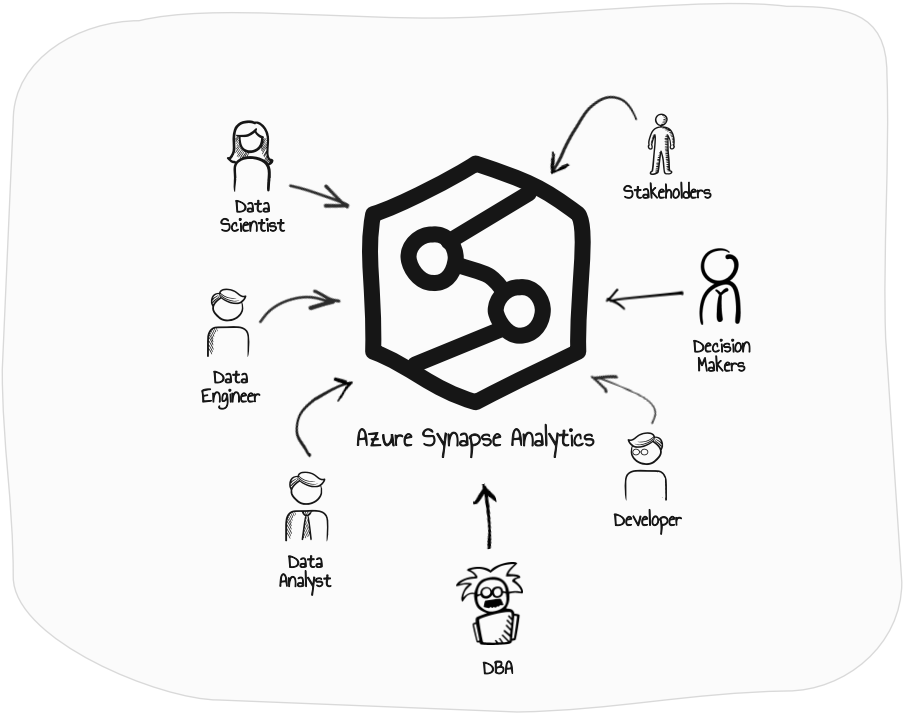


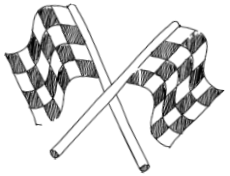
tags: synapse, analytics, base, entry

Azure Synapse Analytics – Home

tags: analytics, data, organization, personas

Recap





THANKS!

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