

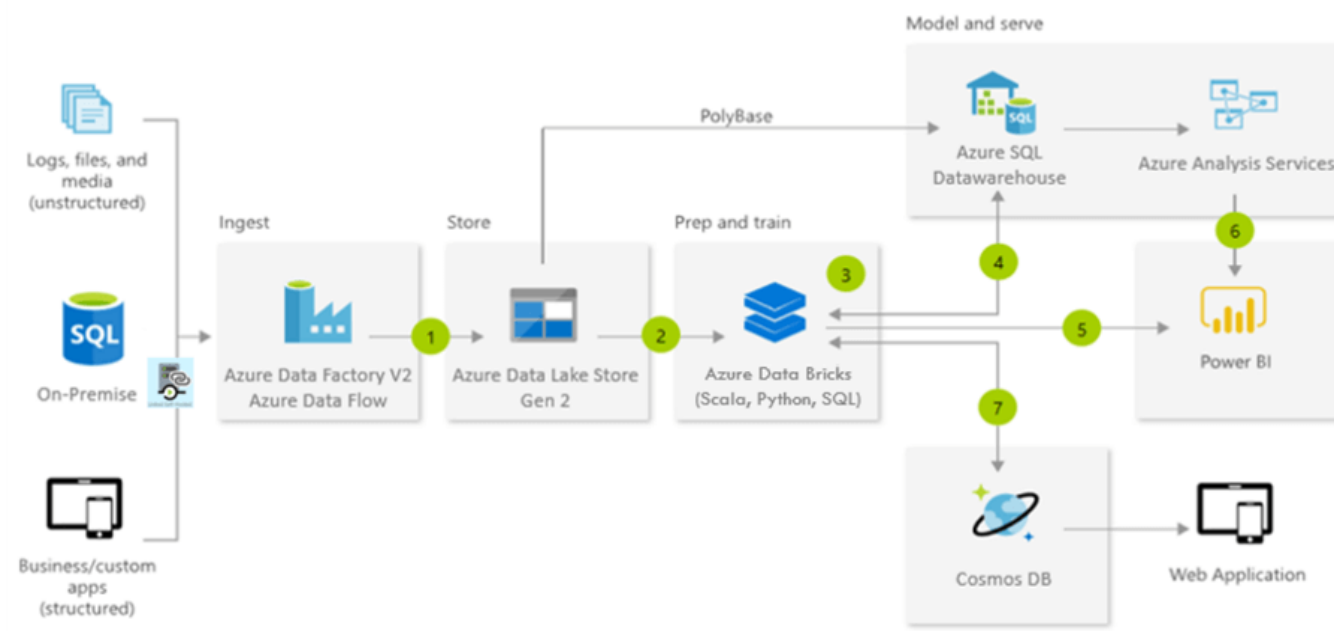
## Data Engineering Career Track

### Open-ended Capstone Step 7: Create Deployment Architecture

**Estimated Time: 5-7 Hours**

In this step, you'll diagram and implement the Azure architecture which you'll use to deploy your data pipeline to the cloud. Please make sure you include all the necessary components of your data pipeline in your diagram, including compute resources, storage, networking, and everything else you'll need. Mark the direction of the data flow in the diagram.

You'll find a sample architecture diagram below. **Your architecture diagram will be different. Use the diagram below only as a reference.** You use Powerpoint or [Draw.io](https://draw.io) to create your diagram.



After creating your diagram, deploy each resource in Azure and ensure they are configured properly to exchange data between each other. If you need any clarification on how to connect your various resources, please refer to the following learning nodes: 18.2.12, 18.2.13, 18.2.14, 18.2.15, and all of subunit 18.3.

**Deliverables:**

- An architecture diagram, like the one shown above, representing the flow of data from one component to the other.
- An Azure Resource Manager Template for each resource deployed as part of this architecture. This can be done by following [these steps](#) for each resource.

**Slide deck updates:**

Update your slide deck with the work from this step, including:

- Your architecture diagram
- Resource creation snapshots
- Your rationale for the architecture you have chosen for your project
- Details about any trade offs you had to make when designing your architecture