# **DP 200 - Implementing a Data Platform Solution**

## Lab 2- Working with Data Storage

### Exercise 1: Choose a Data Storage Approach in Azure

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| RG | [awrgstudxx](https://portal.azure.com/#@35a73ca8-2c1c-4574-8dda-ee9861d3d155/resource/subscriptions/7e94a60d-d949-4cbc-b32b-d70145906fa9/resourceGroups/awrgstudxx) |
| Storage Account for images | [awsastuddhat](https://portal.azure.com/#@35a73ca8-2c1c-4574-8dda-ee9861d3d155/resource/subscriptions/7e94a60d-d949-4cbc-b32b-d70145906fa9/resourcegroups/awrgstudxx/providers/Microsoft.Storage/storageAccounts/awsastuddhat/overview) |
| SA for ADL | [awdlsstuddhat](https://portal.azure.com/#@35a73ca8-2c1c-4574-8dda-ee9861d3d155/resource/subscriptions/7e94a60d-d949-4cbc-b32b-d70145906fa9/resourcegroups/awrgstudxx/providers/Microsoft.Storage/storageAccounts/awdlsstuddhat/containersList) |

Fill out the tables below to document the data storage required to meet two of AdventureWorks storage needs.

**Question 1.**

AdventureWorks are in the process of transferring a web application and its logic to Azure Web Apps and require a data store that can be used to host the static images that are used on the website.

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| **Data Store Type** | Storage account |
| **Configuration options** | Account type Blob. Create a container named images to host the graphics |
| **Other comments** | Consider locating the Blob store in the same location as the Azure Web App |

**Question 2.**

AdventureWorks are in the process of building a predictive analytics solution. You have been asked to set up a solution that will be used to host the production environment of their work. In the first instance, you will assess what is the appropriate storage tier to create for the solution.

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| **Data Store Type** | Data Lake Storage Gen II |
| **Configuration options** | Account type Blob, with Hierarchical Namespace enabled Create a container named data to host data files |
| **Other comments** | Place this content close to the head office in the Nederlands |

## Lab 3- Enabling Team Based Data Science with Azure Databricks

### Exercise 1: Explain Azure Databricks

**Question 1.**

Outline how Databricks can be used to meet an AdventureWorks digital transformation requirements as outlined by the case study.

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| **Requirement** | Reason |
| AdventureWorks would like to take their data analytics further and start to utilize predictive analytics capabilities. | Databricks is an appropriate technology to be used to meet this requirement, as it is an Apache Spark-based analytics platform with one-click setup, streamlined workflows, and interactive workspace that enables collaboration between data scientists, data engineers, and business analysts. |

**Question 2.**

From the lessons learned from the course and labs so far, what would be a candidate data source for the Azure Databricks instance you are configuring?

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| **Candidate data source** | Reason |
| The Data Lake Store Gen II named awdlsstudxx, where \*\*xx\*\* are your initials. | It can be used to store a variety of data in a variety of formats in unlimited scale that can be used by Azure Databricks as a source of information. |