Challenge 1: Retrieve lab environment information and create Databricks cluster

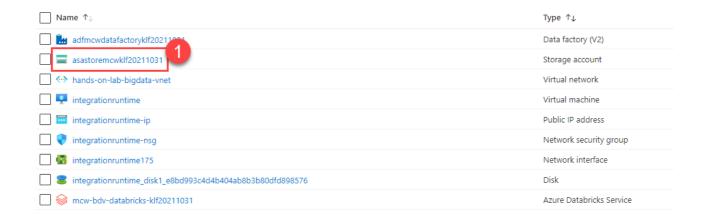
Duration: 10 minutes

In this exercise, you will retrieve your Azure Storage account name and access key and your Azure Subscription Id and record the values to use later within the lab. You will also create a new Azure Databricks cluster.

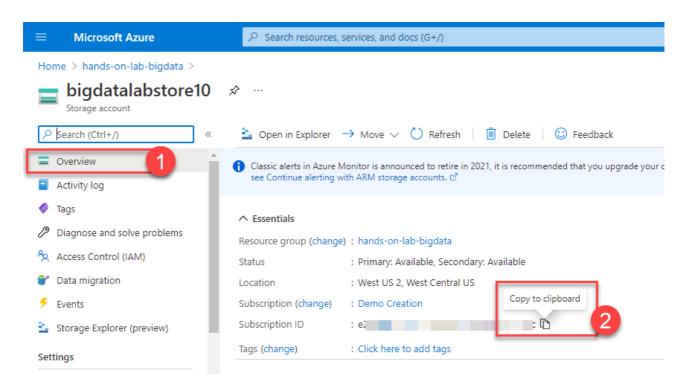
Task 1: Retrieve Azure Storage account information and Subscription Id

You will need to have the Azure Storage account name and access key when you create your Azure Databricks cluster during the lab. You will also need to create storage containers in which you will store your flight and weather data files.

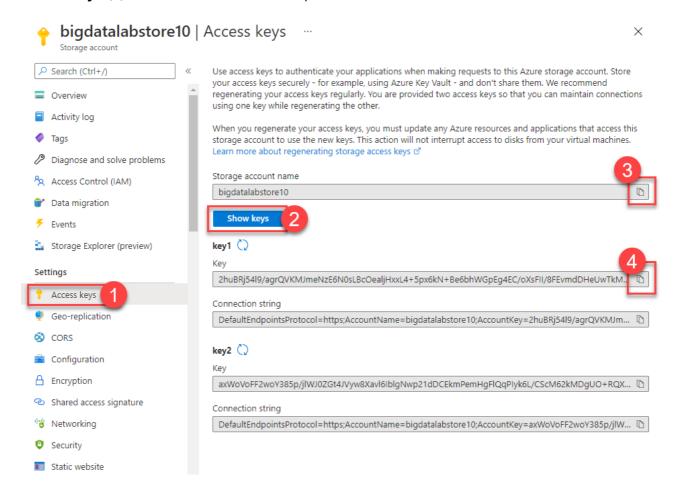
- 1. From the side menu in the Azure portal, choose **Resource groups**, then enter your resource group name into the filter box, and select it from the list.
- 2. Next, select your lab Azure Storage account from the list.



3. On the left menu, select **Overview (1)**, locate and copy your Azure **Subscription ID (2)** and save to a text editor such as Notepad for later use.



4. Select Access keys (1) from the menu and select Show keys (2). Copy the storage account name (3) and the key1 (4) to a text editor such as Notepad for later use.



Task 2: Create an Azure Databricks cluster

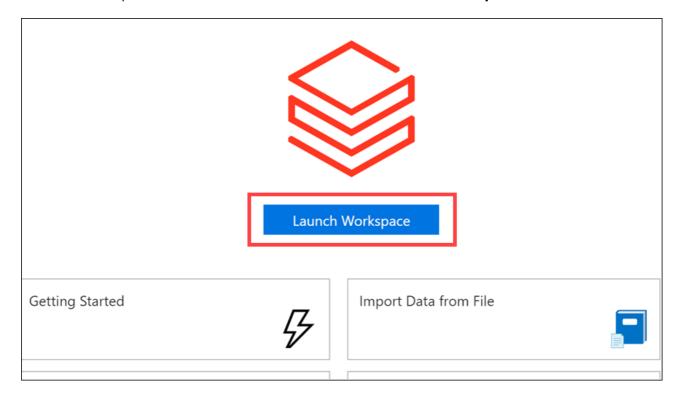
You have provisioned an Azure Databricks workspace, and now you need to create a new cluster within the workspace. Part of the cluster configuration includes setting up an account access key to your Azure Storage account using the Spark Config within the new cluster form. This will allow your cluster to access the lab files.

1. From the side menu in the Azure portal, select **Resource groups**, then enter your resource group name into the filter box, and select it from the list.

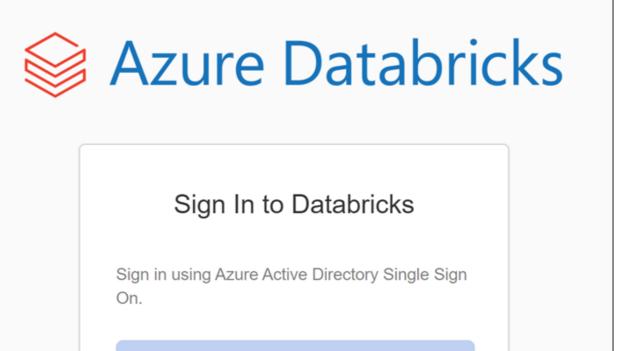
2. Next, select your Azure Databricks service from the list.

Name ↑↓	Type ↑↓
adfmcwdatafactoryklf20211031	Data factory (V2)
asastoremcwklf20211031	Storage account
hands-on-lab-bigdata-vnet	Virtual network
integrationruntime	Virtual machine
integrationruntime-ip	Public IP address
integrationruntime-nsg	Network security group
☐ 🚮 integrationruntime175	Network interface
integrationruntime_disk1_e8bd993c404ab8b3b80dfd898576	Disk
mcw-bdv-databricks-klf20211031	Azure Databricks Service

3. In the Overview pane of the Azure Databricks service, select **Launch Workspace**.



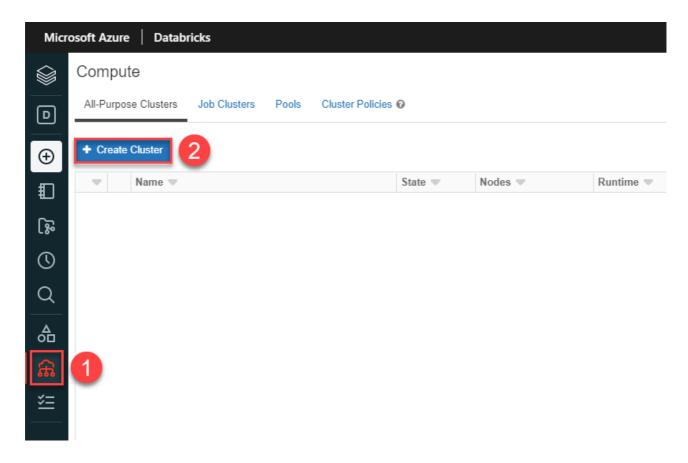
Azure Databricks will automatically log you in using Azure Active Directory Single Sign On.



Signing you in

Contact your site administrator to request access.

4. Select Compute (1) from the menu, then select + Create Cluster (2) .



5. On the New Cluster form, provide the following:

Cluster Name: lab

Cluster Mode: Standard

Databricks Runtime Version: Runtime: 9.1 LTS ML (Scala 2.12, Spark 3.1.2)

• Enable Autoscaling: Uncheck this option.

Terminate after: Check the box and enter 120

Worker Type: Standard_F4

• Driver Type: Same as worker

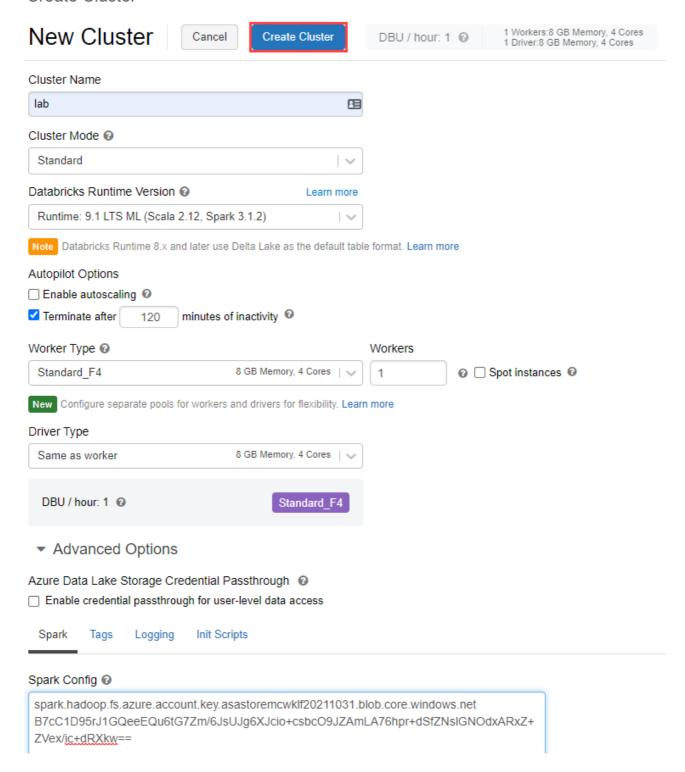
Workers: 1

 Spark Config: Expand Advanced Options and edit the Spark Config by entering the connection information for your Azure Storage account that you copied above in Task 1. This will allow your cluster to access the lab files. Enter the following:

```
spark.hadoop.fs.azure.account.key.
<STORAGE_ACCOUNT_NAME>.blob.core.windows.net <ACCESS_KEY>, where
<STORAGE_ACCOUNT_NAME> is your Azure Storage account name, and <ACCESS_KEY> is your storage access key.
```

Example: spark.hadoop.fs.azure.account.key.bigdatalabstore.blob.core.windows.net
HD+91Y77b+TezEu1lh9QXXU2Va6Cjg9bu0RRpb/KtBj8lWQa6jwyA0OGTDmSNVFr8iSlkytIFONEHLd167F
gxg==

Create Cluster



6. Select Create Cluster.