ADD NOTE TO SETUP about name uniqueness.

Exercise 1: Building a Machine Learning Model

Task 2: Navigate to Machine Learning Studio.

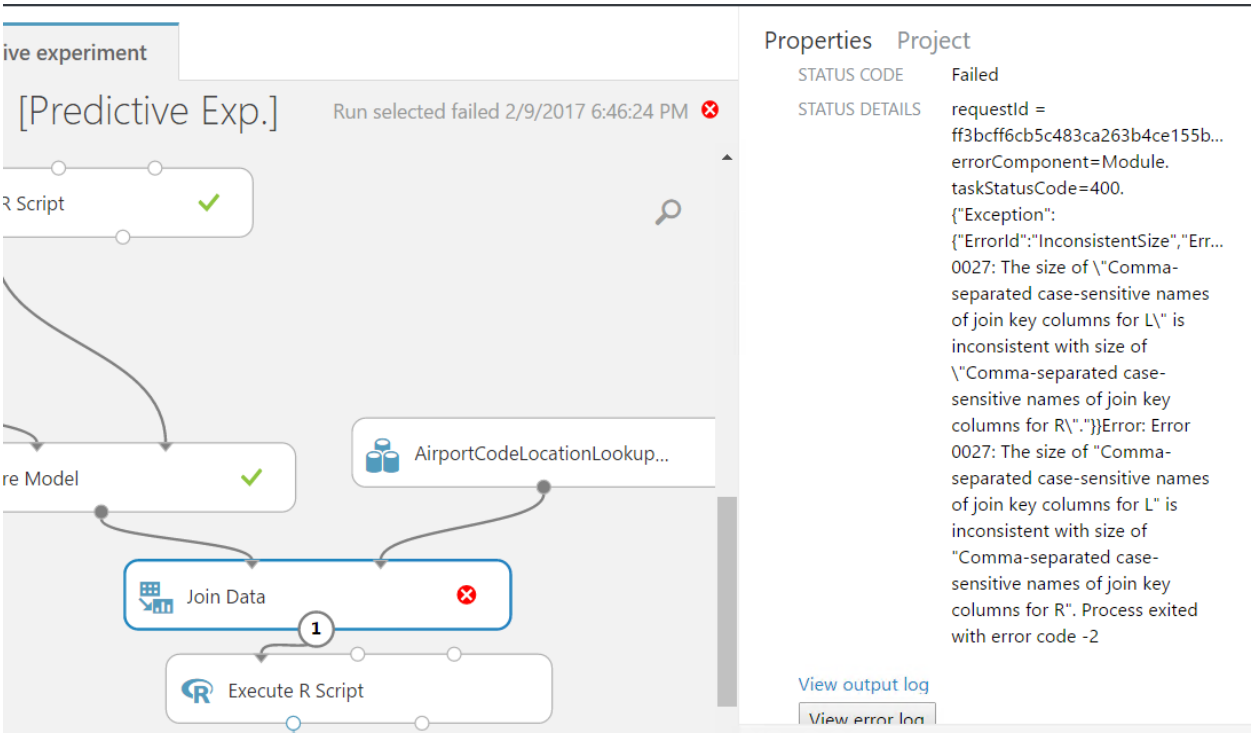
Use the Chrome browser loaded on the VM. Internet Explorer and Edge have a copy/paste issue inside of AzureML Studio.

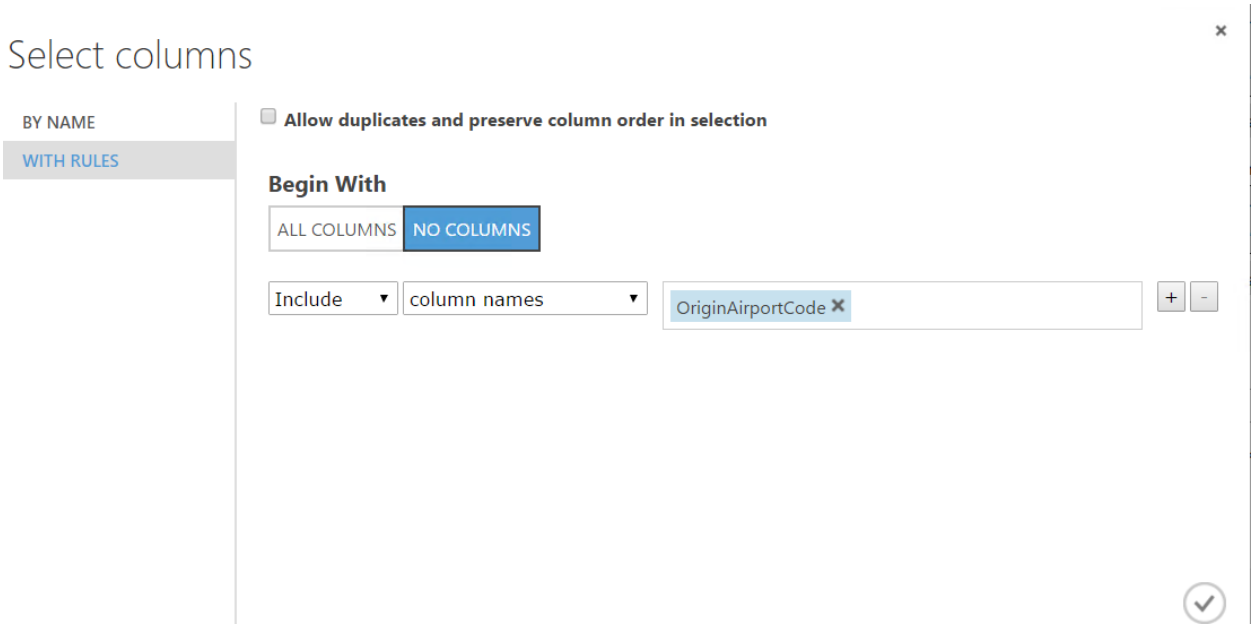
At this point open the Cortana instrutions in another window in Chrome. This will allow you to alt+tab to switch quikly between the instructions and AzureML Studio

Task 8 : operationalize the Experiment

Step 15. When Setting the Join colums, the columns list may not appear automatically. You may begin typing OriginAirportCode in the list box OR Select All Columns under BEGIN WITH, Select the OriginAirportCode. Do not forget to set BEGIN WITH back to No Columns.

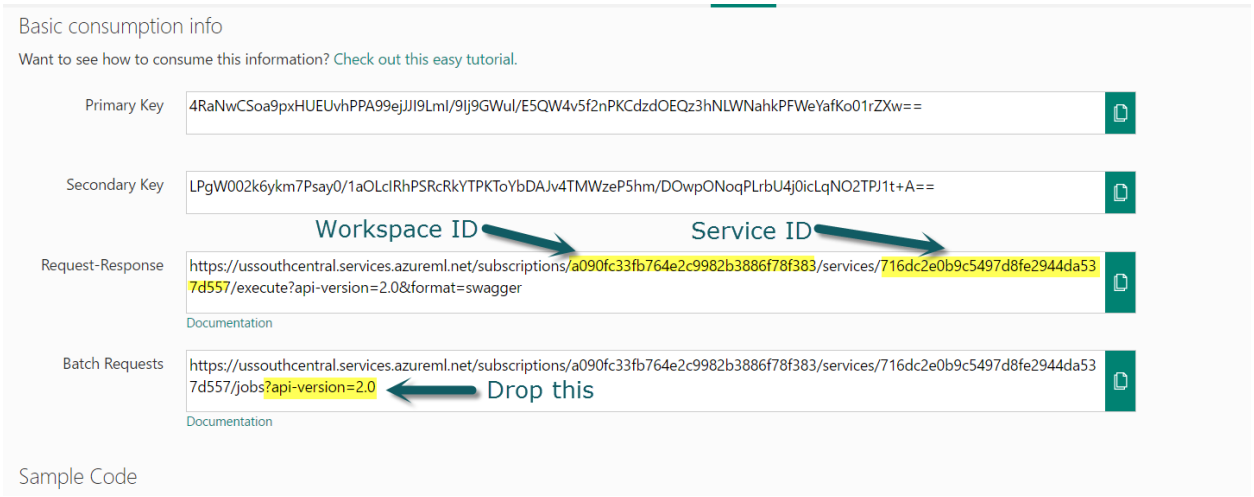
If you get the error below, it is because you have a different number of join columns between the left and right. (You probably forgot to go back and Begin With No Columns on the Left.)





Task 9: Deploy API and Note Web Service Information

If the keys are blank, just refresh the page.



Then Save your notepad…

Exercise 2: Setup Azure Data Factory

Task 2: Download and Stage Data to be Processed.

When you click on the link, the file is placed in your This PC ->Downloads directory. Create the C:\Data folder and copy the file to that folder.

Task 4: Log in to the Azure Portal.

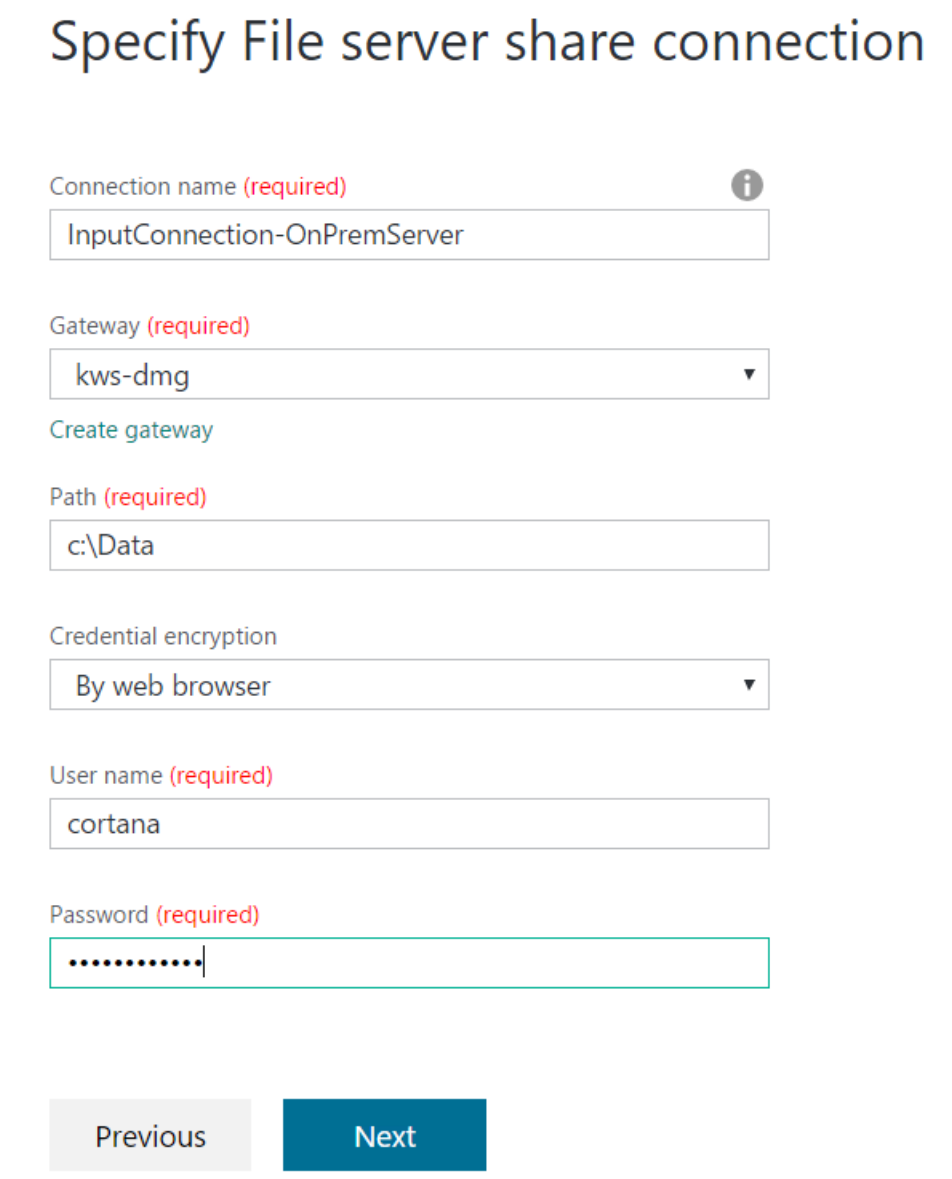
Make sure you do this inside the VM.

Exercise 3:Develop Data Factory Pipeline for Data Movement

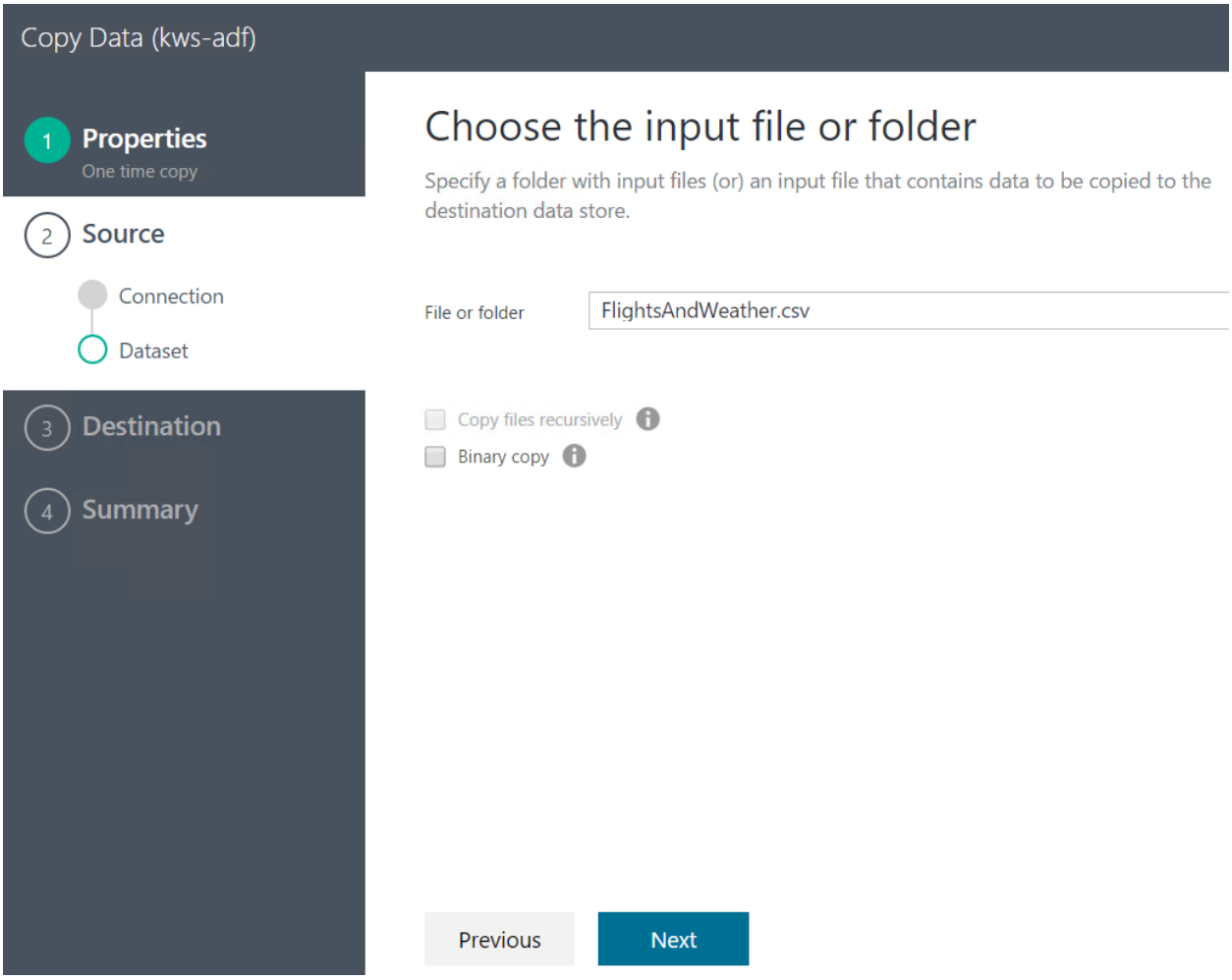
Task 1;Create Copy Pipeline Using the Copy Data Wizard.

7. From the Source Data Store screen tab, select ~~**File Server Share**~~ **File System.**

13. For the Gateway, it should already be filled in with the gateway connection you created in the previous exercise.

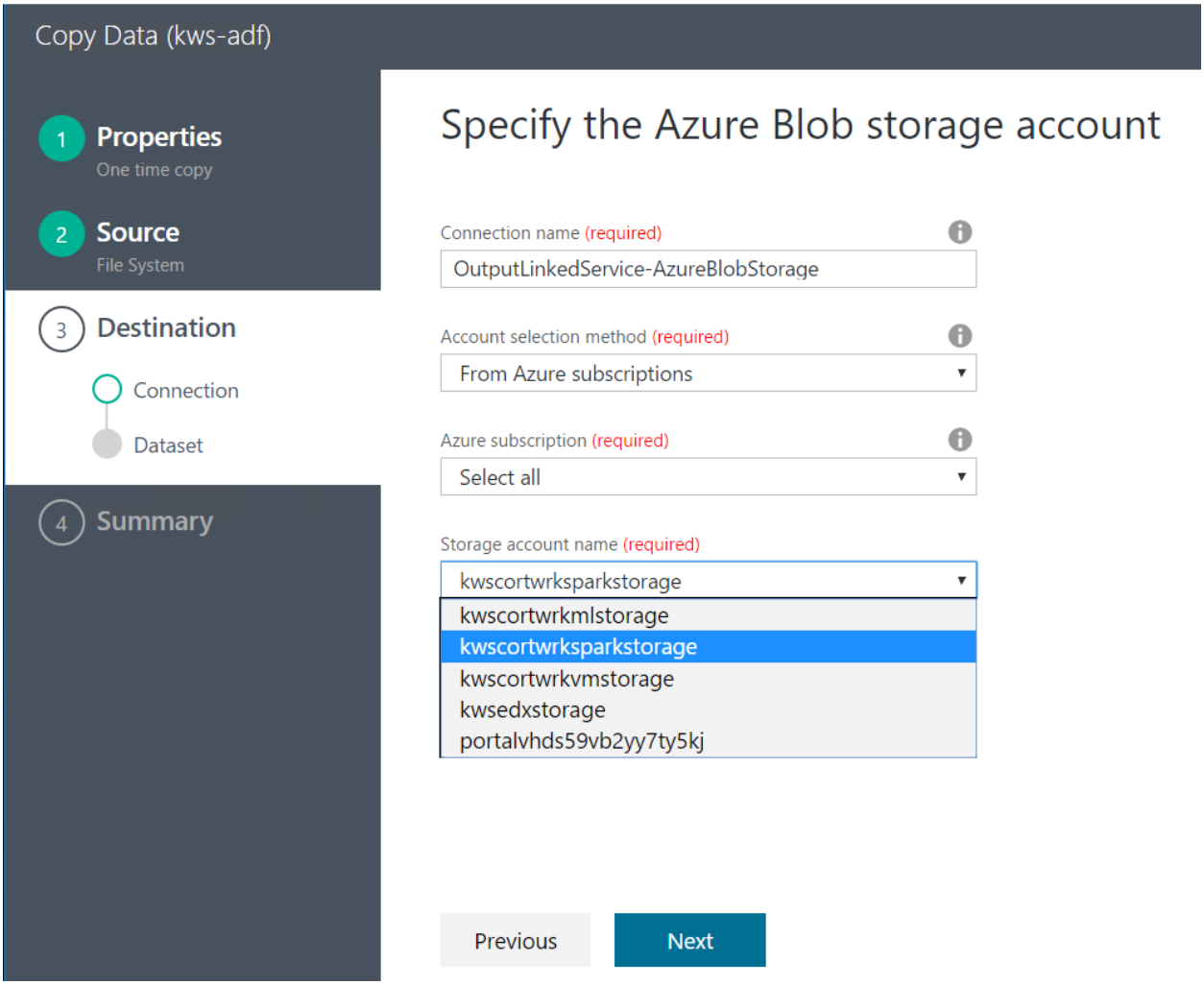


17a. Click on the **Next** button from the bottom of the screen.



18. From the **File format settings** tab, leave everything as default. ~~except check the box **Column name in the first data row**~~. Column Name in the first data row should be checked, which is the default. You can see the preview of the file from the bottom of the screen.

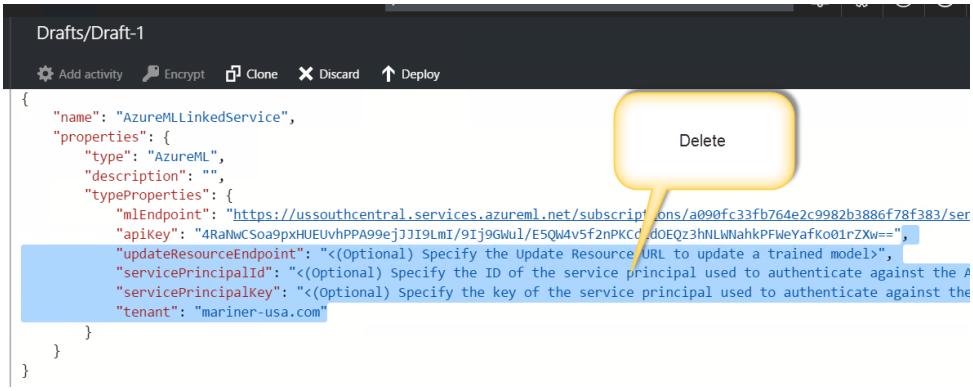
24. Before clicking **Next** at the bottom of the screen, *please make sure you have selected the right storage account* (it will have the **sparkstorage** suffix). Finally, click **Next**



Exercise 4: Operationalize ML Scoring with Azure ML and Data Factory

Task 1: Create Azure ML Linked Service

You will replace 2 items with Batch Key and Primary Key as the lab instructions indicate. Then you will delete the remaining items as highlighted in the picture below.

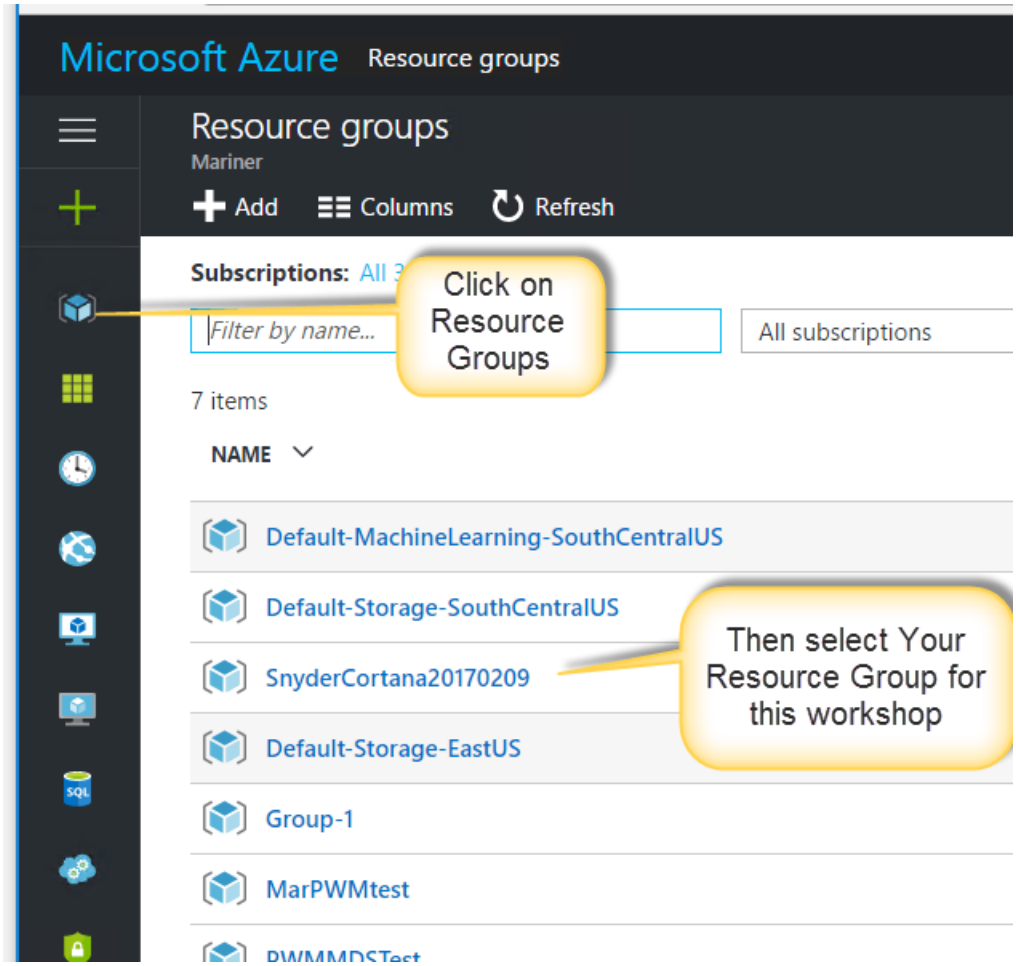


Exercise 5: Summarize Data Using HDInsight Spark

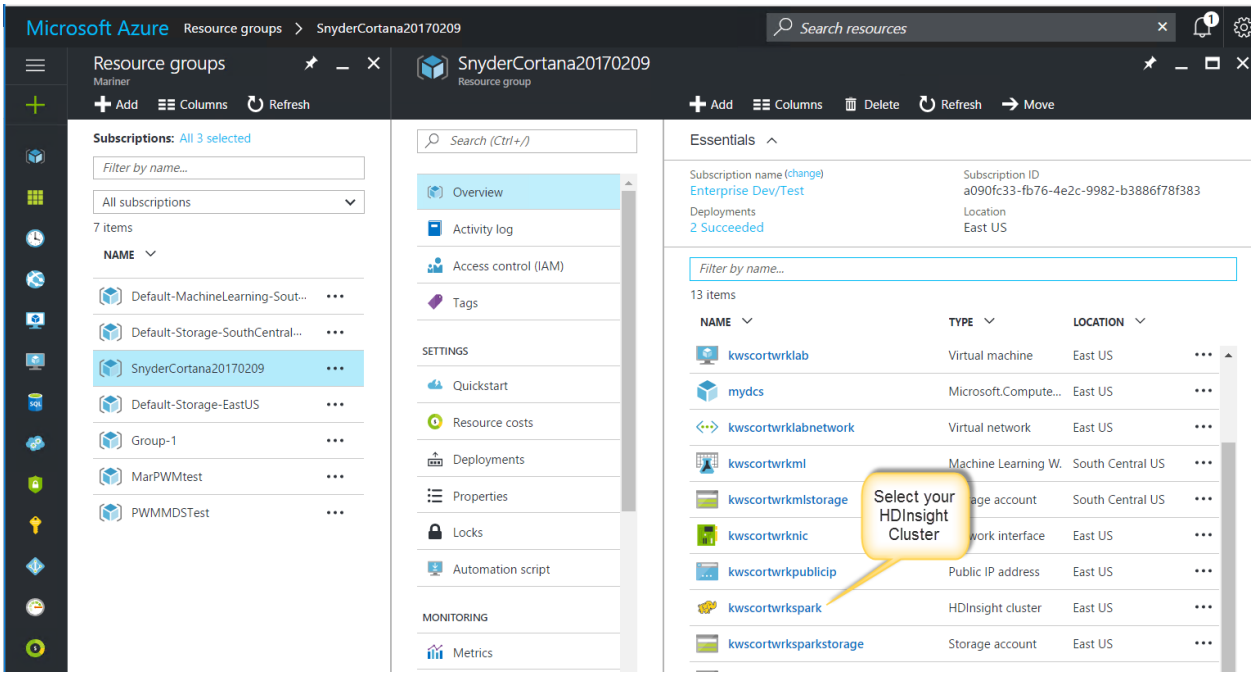
Task 1: Summarize Delays by Airport

To Navigate to your HDInsight Cluster

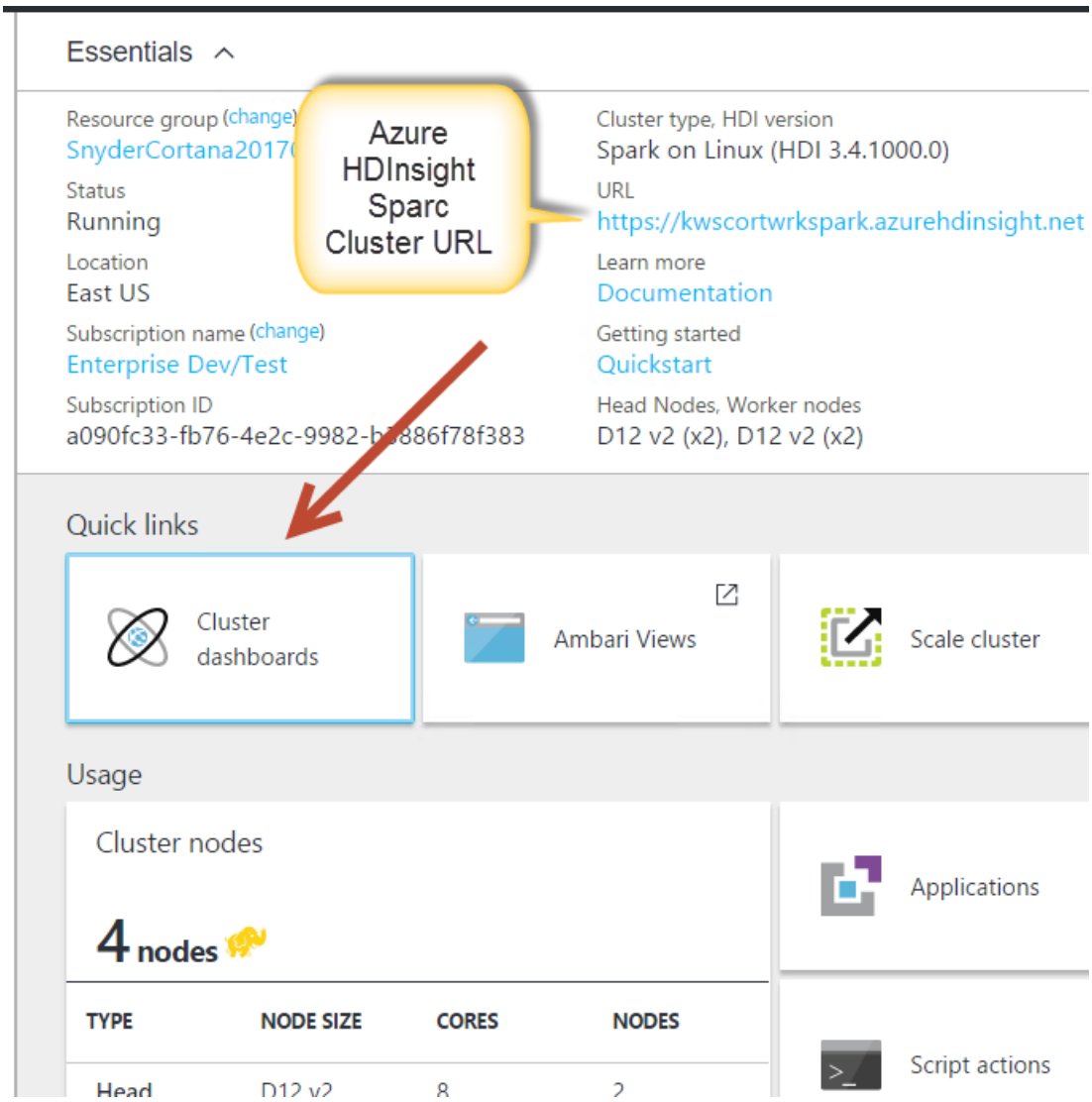
Step1: Select Resource Groups, then select your resource group for this workshop.



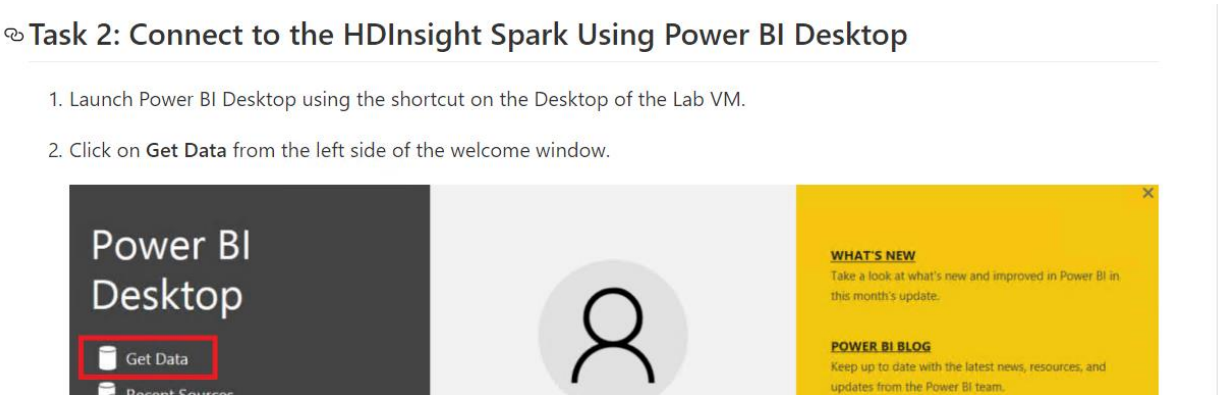
Step 2: Then select your HDInsight Cluster



Step 3: NOTE the URL for your Azure HDInsight Sparc Cluster in Yellow below. Now you can select the Cluster Dashboards, in red .



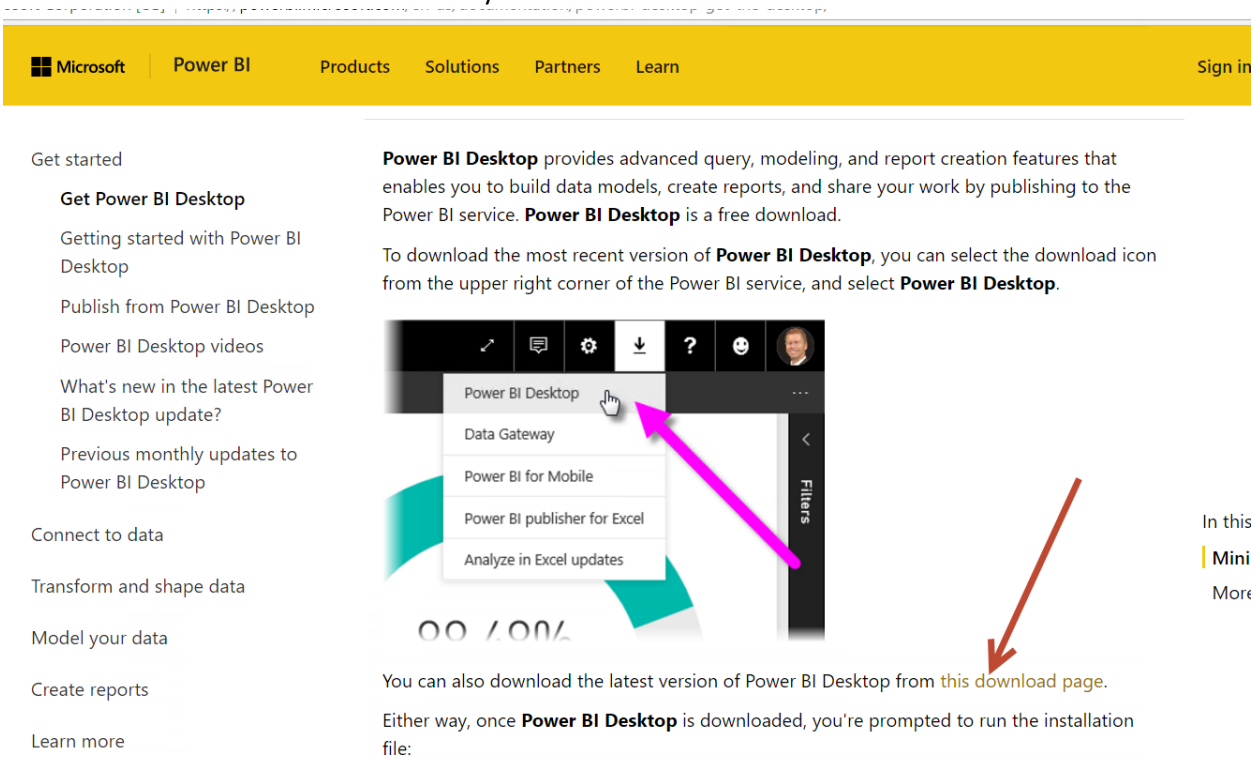
Exercise 6: Visualizing in Power BI Desktop



Power BI Desktop must be installed on the VM. For instructions, go to:

https://powerbi.microsoft.com/en-us/documentation/powerbi-desktop-get-the-desktop/

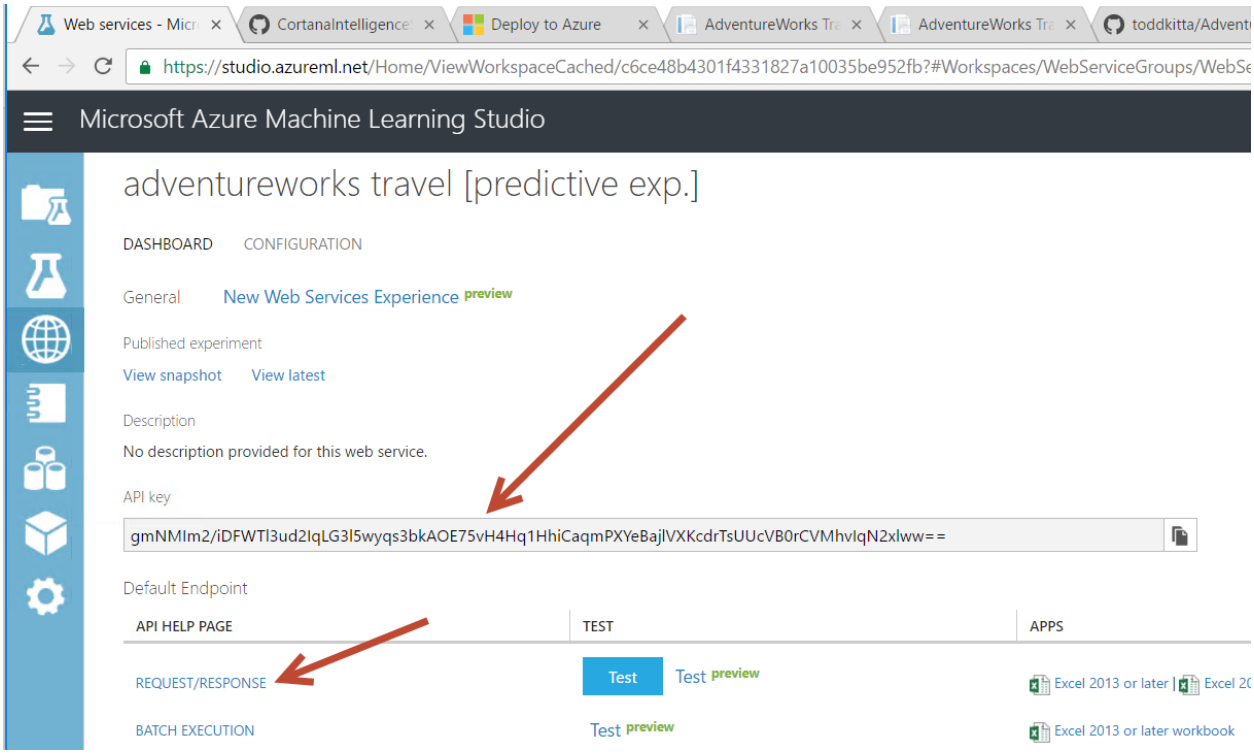
The download link is indicated by the RED



arrow.

Exercise 7: Deploy Intelligent Web App

The keys needed are the weather undergound key, workspace id, service id, and what is referred to now, as the ML API key. In an earlier lab you saved this key, but then it was referred to as the machine learning web service api key. You may fetch that key by opening Studio.azureml.net, opening your deployed web service, and the key is visible.



To retrieve the workspace and service id, click on the Request/Reponse link.

In the middle of the page you will see a request URI, from which you may capture the workspace and Service ID.