# Cortana Intelligence Suite

## Day 2

### Get started with Azure Data Lake Store using the Azure Portal

Learn how to use the Azure Portal to create an Azure Data Lake Store account and perform basic operations such as create folders, upload and download data files, delete your account, etc.

<https://azure.microsoft.com/en-us/documentation/articles/data-lake-store-get-started-portal/>

### Create an Azure SQL Data Warehouse

This tutorial uses the Azure portal to create a SQL Data Warehouse that contains an AdventureWorksDW sample database.

<https://azure.microsoft.com/en-us/documentation/articles/sql-data-warehouse-get-started-provision/>

### Use Power BI with SQL Data Warehouse

As with Azure SQL Database, SQL Data Warehouse Direct Connect allows user to leverage powerful logical pushdown alongside the analytical capabilities of Power BI. With Direct Connect, queries are sent back to your Azure SQL Data Warehouse in real time as you explore the data. This, combined with the scale of SQL Data Warehouse, enables users to create dynamic reports in minutes against terabytes of data. In addition, the introduction of the Open in Power BI button allows users to directly connect Power BI to their SQL Data Warehouse without collecting information from other parts of Azure.

<https://azure.microsoft.com/en-us/documentation/articles/sql-data-warehouse-integrate-power-bi/>

### Setting up Azure Machine Learning.

<http://video.ch9.ms/ch9/def8/6c26c676-299d-449e-b35a-a6633241def8/GetStartedMSAzureMachineLearningM01_mid.mp4>

#### Creating a workspace

<https://azure.microsoft.com/en-us/documentation/articles/machine-learning-create-workspace/>

#### Create a new Azure Machine Learning experiment

<https://azure.microsoft.com/en-us/documentation/articles/machine-learning-walkthrough-3-create-new-experiment/>

### Deploying an API: Twitter sentiment analysis

<http://video.ch9.ms/ch9/def8/6c26c676-299d-449e-b35a-a6633241def8/GetStartedMSAzureMachineLearningM01_mid.mp4>

Try this for the demo: Binary classification – Twitter sentiment analysis

<https://gallery.cortanaanalytics.com/Experiment/59e52ed2895144ea964947c950a9c794>

Connecting to an API: <https://azure.microsoft.com/en-us/documentation/articles/machine-learning-connect-to-azure-machine-learning-web-service/>

Consuming an API: <https://azure.microsoft.com/en-us/documentation/articles/machine-learning-consume-web-services>

### Learn How to Work with Large datasets to Build Predictive Models with Microsoft’s Analytics Toolkit

Many predictive analytics problems involve working with large data sets that aren't manageable on your local client machine or even on a single server. Microsoft Azure provides a collection of services that allow you to store, transform, and analyze big data. In this webinar, we will discuss a case study using NY city taxi data and cover: • Storing and manipulating large data sets • Using Azure ML and the Learning with Counts algorithm to train a predictive model with large data sets • How we created a model to predict tips on NYC Taxi rides using Azure storage, HDInsight and Azure ML

<https://azure.microsoft.com/en-us/documentation/videos/learn-how-to-work-with-large-datasets-to-build-predictive-models-with-microsofts-analytics-toolkit/>

<https://blogs.technet.microsoft.com/machinelearning/2015/04/02/building-azure-ml-models-on-the-nyc-taxi-dataset/>

https://gallery.cortanaintelligence.com/browse?s=NYC Taxi