



Processing Big Data with Azure Data Lake

Setup Guide

Overview

This course describes how to implement big data solutions using Microsoft Azure Data Lake.

What You'll Need

- A Microsoft account
- A Microsoft Azure subscription
- A Microsoft Windows, Apple Macintosh, or Linux computer

Create an Azure Subscription

Note: If you already have a Microsoft Azure subscription, you can skip this section.

If you have never had an Azure subscription, you can create a 30-day free trial subscription, which includes \$200 of free credit in your local currency, which is comfortably enough to complete the labs in this course. Alternatively, you may be able to join the Visual Studio Dev Essential program, which includes a 12-month Azure subscription (with some restrictions) with \$25 per month of credit included. You will need to provide a valid credit card number for verification, but you will not be charged for Azure services – for more information, see the frequently asked questions in the Azure sign-up page.

If you have previously had a free trial subscription that has now expired, you will not be able to sign up for a second free trial. In this case, you must either use a Visual Studio Dev Essentials Azure allowance, or sign up for a pay-as-you-go subscription. The lab instructions in this course are designed to minimize the cost of the Azure resources required to complete the hands-on exercises.

To set up an Azure subscription:

1. If you already have a Microsoft account that has not already been used to sign up for a free Azure trial subscription, you're ready to get started. If not, don't worry, just create a new Microsoft account at <https://signup.live.com>.
2. After you've created a Microsoft account, browse to <https://aka.ms/edx-dat223.1x-az> and start a free trial. Then follow the instructions to sign up for a free 30-day trial subscription to Microsoft Azure. Alternatively, after creating your Microsoft account, go to <https://azure.microsoft.com/en-us/pricing/member-offers/vs-dev-essentials/> and sign up for the Visual Studio Dev Essentials program, and then activate your Azure subscription. You'll need to sign-in with your Microsoft account if you're not already signed in. When activating either a 30-day trial or a Visual Studio

Dev Essentials Azure subscription, you will need to provide valid payment details – don't worry, your credit card won't be charged for any services you use during the trial period, and the account is automatically deactivated at the end of the trial period unless you explicitly decide to keep it active.

Install the Lab Files

To complete the labs in this course, you will need to download and extract the lab files from the course GitHub repository.

1. Download the lab files zip archive from https://aka.ms/edx-dat223_1x-labfiles.
2. Extract the lab files to a folder on your computer.

Optional: Install Visual Studio

If you are using a Windows computer, you can install Visual Studio. This will enable you to complete some optional exercises in the labs that make use of Visual Studio Tools for Azure Data Lake.

1. If you do not already have Visual Studio 2015 installed, download and run the Visual Studio 2015 Community Edition installer from https://aka.ms/edx-dat223.1x_vs. Then complete the installation, being sure to include the **SQL Server Client Tools** component (which is required for the .NET SDK for Azure).
2. Use the Microsoft Web Platform Installer to install the latest version of the .NET SDK for Azure for Visual Studio 2015. You can download and run the Web Platform Installer from <http://go.microsoft.com/fwlink/?linkid=255386>.