Data Ingestion from Cloud-born or On-premise to Azure

Lab 1 – Data ingestion from on-premise to Azure using Migration tools

Overview

In this lab, you will understand the various process to transfer data with the AzCopy/Azure Storage Explorer/Data explorer/Import & Export Tool utility.

What You’ll Need

To complete the labs, you will need the following:

* A web browser
* A Microsoft account
* A Microsoft Azure subscription
* A Microsoft Windows, Linux, or Apple Mac OS X computer on which the Azure CLI has been installed.
* Azure PowerShell

The lab files for this course

**Note**: Download & Install AzCopy(v8.1 for Prod) for Windows & Linux/OSX(Preview) .

Windows: <https://aka.ms/downloadazcopy>

## Prerequisites:

* For AzCopyV10, no installation is required & can start directly from command line with azcopy.exe executable is located. You can add the AzCopy folder location to your system path.

## Commands / Scripts

* First, use the following command to sign in using Azure AD . The user should have “Storage Blob Data Contributor” role assigned to write to blob storage & using Azure AD authentication.

.\azcopy login

### .\azcopy <command> <arguments> --<flag-name>=<flag-value>

### # Examples if you have **logged into the Azure Active Directory**:

### .\azcopy copy <source path> <destination path> --<flag-name>=<flag-value>

### .\azcopy cp "C:\local\path" "https://account.blob.core.windows.net/container" --recursive=true

### .\azcopy cp "C:\local\path\myfile" "https://account.blob.core.windows.net/container/myfile"

### .\azcopy cp "C:\local\path\\*" "https://account.blob.core.windows.net/container"

### # Examples if you are using **SAS tokens to authenticate**:

### .\azcopy cp "C:\local\path" "https://account.blob.core.windows.net/container?sastoken" --recursive=true

### .\azcopy cp "C:\local\path\myfile" <https://account.blob.core.windows.net/container/myfile?sastoken>

* **Copy data to Azure Storage –** First using AzCopy create the Blob storage & File share account & then start transferring data from on-premise/another Cloud based storage.

.\azcopy copy <source path> <destination path> --<flag-name>=<flag-value>

# Using alias instead

.\azcopy cp <source path> <destination path> --<flag-name>=<flag-value>

.\azcopy cp "C:\local\path" "https://account.blob.core.windows.net/mycontainer1<sastoken>" --recursive=true

To upload all files from on-premise C:\local\path directory.

.\azcopy cp "C:\local\path\\*" [https://account.blob.core.windows.net/mycontainer1<sastoken>](https://account.blob.core.windows.net/mycontainer1%3csastoken%3e)

* Upload blobs to Azure Blob Storage
* **Upload a single blob**

AzCopy /Source:C:\yourfolder /Dest:https://youraccount.blob.core.windows.net/yourcontainer /DestKey:key /Pattern:"abc.txt" (Note: AzCopy will create the blob container in case the specified Blob container doesn’t exist.

* **Upload all blobs in a folder**

AzCopy /Source:C:\yourfolder /Dest:https://youraccount.blob.core.windows.net/mycontainer /DestKey:key /S

Note: specifying /s uploads the contents of the specified directory to blob storage recursively.

* Upload blobs matching a specific pattern

AzCopy /Source:C:\myfolder /Dest:https://myaccount.blob.core.windows.net/mycontainer /DestKey:key /Pattern:a\* /S