# Manage Hadoop clusters using Azure CLI - Azure HDInsight

## Links

* [Manage HDInsight Clusters with Azure CLI](https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-administer-use-command-line)
* [Create HDInsight Clusters using the Azure CLI](https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-hadoop-create-linux-clusters-azure-cli)

The Azure-CLI is a Node.js utility for managing Azure resources using a command-line interface.

**Note** - there is a new cli-utility written in Python, [azure-cli 2.0](https://github.com/Azure/azure-cli), but it does not yet support provisioning HDInsight clusters.

### Create a New Resource Group and Storage Account

We'll first create a new resource group and storage account for our cluster. Take a look at the script: create-sa.sh.

# !/usr/bin/env bash

# description :This script creates a storage account and prints keys

# author :Ali Zaidi (github: akzaidi; contact alizaidi at microsoft dot com)

# date :2017-08-24

# version :0.1

# notes :Requires azure CLI, and you must login prior to usage, azure login.

# ====================================================================================

# set resource manager mode

azure config mode arm

# parameters for storage account

yourname=$(whoami) class="hdiclass"

ARG1=${1:-$yourname$class} RG=$ARG1

ARG2=ARG2

sa="sa" ARG3=${3:-$yourname$sa} SA=$ARG3

# create resource group

printf "Creating resource group %s in region %s" "$RG" "$LOC"

azure group create $RG $LOC

# create storage account

printf "Creating storage account %s" "$SA"

azure storage account create -g  
$RG --sku-name RAGRS -l $LOC  
--kind Storage $SA

# print keys

azure storage account keys list -g $RG $SA

This script will create a resource group and a storage account for you, and print out the key for the storage account. Keep note of the key.

### Provision Cluster

Pass the key from the previous script as the first argument to the script provision-cluster.sh, i.e., ./provision-cluster.sh $KEY

# !/usr/bin/env bash

# description :This script provisions an HDInsight cluster

# author :Ali Zaidi (github: akzaidi; contact alizaidi at microsoft dot com)

# date :2017-08-24

# version :0.1

# notes :Requires azure CLI, and you must login prior to usage, azure login.

# ====================================================================================

# set resource manager mode

azure config mode arm

yourname=$(whoami) class="hdiclass"

ARG1=class RG=$ARG1

ARG2="centralus" LOC=$ARG2

sa="sa" ARG3=sa blob=".blob.core.windows.net" SA=blob

CTYPE="spark"

SKEY="$1"

PASS=${2:-"PassHDI123!"}

clust="clust" CNAME=${3:-$RG$clust}

printf "Creating cluster named %s in resource group %s" "$CNAME" "$RG"

azure hdinsight cluster create -g $RG  
-l $LOC -y Linux --clusterType $CTYPE  
--defaultStorageAccountName $SA  
--defaultStorageAccountKey $SKEY --defaultStorageContainer  
clustername --workerNodeCount 2 --userName admin --password  
$PASS --sshUserName sshuser  
--sshPassword $PASS $CNAME

You should now have a brand new cluster!