# 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.

yourname=$(whoami)  
class="hdiclass"  
  
ARG1=${1:-$yourname$class}  
RG=$ARG1  
  
ARG2=${2:-centralus}  
LOC=$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

azure config mode arm  
  
yourname=$(whoami)  
class="hdiclass"  
  
ARG1=$yourname$class  
RG=$ARG1  
  
ARG2="centralus"  
LOC=$ARG2  
  
sa="sa"  
ARG3=$yourname$sa  
blob=".blob.core.windows.net"  
SA=$ARG3$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!