GSM – Hadoop 1 Day Workshop

Welcome back!



HDInsight (Windows)

Managed Hadoop framework using Microsoft Azure instances and storage

Pay-as-you-go

Pre-requisite:

Microsoft Azure Subscription

PRACTICE 1 - Sign in

https://manage.windowsazure.com/

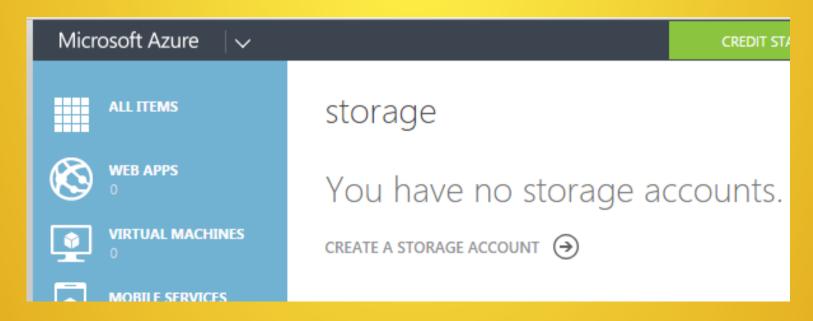
Sign in to the Portal

PRACTICE 2 – Create a Storage Account

URL: gmshadoopworkshop

Location: East US

Replication: Locally Redundant



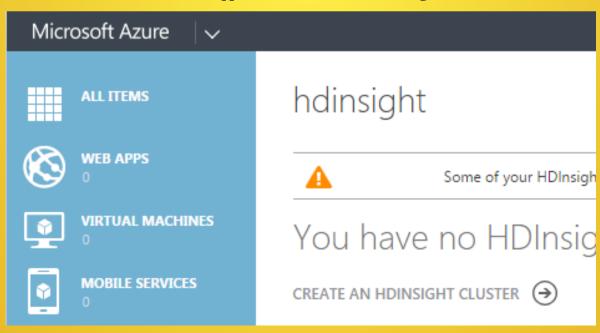
PRACTICE 3 - Create HDInsight Cluster

Cluster Name: Same as Storage Account

Cluster Size: 4 nodes

Password: (see rules)

Storage Account: (previously created)

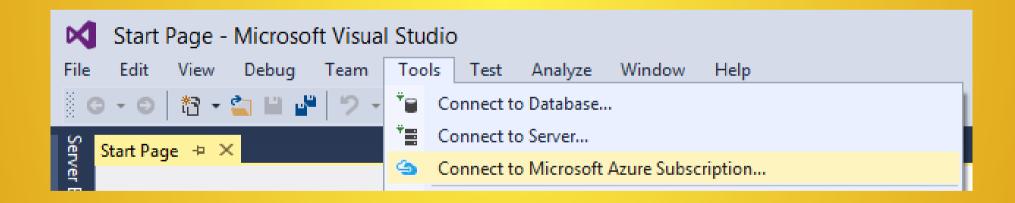


PRACTICE 4 – Install Microsoft Tools

1. Visual Studio Community 2015 with Microsoft Azure SDK

PRACTICE 5 – Connect to your subscription

Tools > Connect to Microsoft Azure Subscription



- # PRACTICE 7 Powershell Equivalent
- > Add-AzureAccount
- > Use-AzureHDInsightCluster dsikargmshadoopworkshop
- # Check
- > Get-AzureAccount
- > Get-AzureSubscription

PRACTICE 8 – Run Hive example

- # Local
- > Invoke-Hive "select country, state, count(*) as records from hivesampletable group by country, state order by records desc limit 5"

```
# PRACTICE 9 – Run Streaming example # as per given example (error)
```

```
# Local

$jarFile = "/example/jars/hadoop-examples.jar"

$className = "wordcount"

$statusDirectory = "/samples/wordcount/status"

$outputDirectory = "/samples/wordcount/output"

$inputDirectory = "/example/data/gutenberg"

$wordCount = New-AzureHDInsightMapReduceJobDefinition \
-JarFile $jarFile -ClassName $className -Arguments \
$inputDirectory, $outputDirectory -StatusFolder $statusDirectory
```

PRACTICE 10 – Debug Streaming example

REMOTE

- 1. Test on shell
- 2. Write hadoop streamin command line equivalent

```
# PRACTICE 10 – Debug Streaming example # solution (one of many)
```

> hadoop jar C:\apps\dist\hadoop-2.6.0.2.2.7.1-34\share\hadoop\tools\lib\hadoop-streaming-2.6.0.2.2.7.1-34.jar -input /example/data/gutenberg -output /example/data/output9 -mapper cat -reducer wc -file cat.exe -file wc.exe

PRACTICE 11 – Terminate Cluster and delete Storage