CREATING AZURE BATCH ACCOUNT SCRIPT

Install AzureCLI

Then install the latest Batch extensions

az extension add --source https://github.com/Azure/azure-batch-cli-extensions/releases/download/azure-batch-cli-extensions-2.0.1/azure\_batch\_cli\_extensions-2.0.1-py2.py3-none-any.whl

The set of commands

<https://docs.microsoft.com/en-us/cli/azure/batch?view=azure-cli-latest>

SCRIPT NAME: create\_project.sh

#!/bin/bash

# Feb 8, 2018

# Kirk Dahl

#

# Azure Deep Dive Training

# Final Project - Microsoft Azure Batch

clear

echo "STOP - have you logged into Azure yet? (y/n)"

read answer

case $answer in

y) ;;

n) exit;;

\*) exit;;

esac

##########################################

########## PREREQUISITES #################

##########################################

#CREATE RESOURCE GROUP

echo

echo

echo ======================================

echo "Creating Resource Group"

echo ======================================

az group create \

--name rg-kirkdahl \

--location eastus

#CREATE STORAGE ACCOUNT

echo

echo

echo ======================================

echo "Creating Storage Account"

echo ======================================

az storage account create \

--resource-group rg-kirkdahl \

--name sakirkdahl \

--location eastus \

--sku Standard\_LRS

#CREATE VNET

echo

echo

echo ======================================

echo "Creating VNET"

echo ======================================

az network vnet create \

--name vnet-kirkdahl \

--resource-group rg-kirkdahl \

--subnet-name subnet-kirkdahl

################################################################

########## BEGIN THE MICROSOFT BATCH INSTALLATION ##############

################################################################

#CREATE BATCH ACCOUNT

echo

echo

echo ======================================

echo "Creating Batch Account"

echo ======================================

az batch account create \

--name batchkirkdahl \

--storage-account sakirkdahl \

--resource-group rg-kirkdahl \

--location eastus

#UPLOAD APPLICATION

echo

echo

echo ======================================

echo "Creating Application Package"

echo ======================================

az batch application package create \

--resource-group rg-kirkdahl \

--name batchkirkdahl \

--application-id PartyApp \

--package-file ./18.zip \

--version 1.0

#CREATE JOB

echo

echo

echo ======================================

echo "Creating Job"

echo ======================================

az batch job create \

--id PartyApp \

--account-name batchkirkdahl \

--account-endpoint https://batchkirkdahl.eastus.batch.azure.com \

--pool-id webservers

#CREATE TASKS – using json files

echo

echo

echo ======================================

echo "Creating Job Tasks"

echo ======================================

# FIRST TASK UNZIPS WEBSITE CODE

az batch task create \

--job-id PartyApp \

--account-name batchkirkdahl \

--account-endpoint https://batchkirkdahl.eastus.batch.azure.com \

--json-file ./batch-task.json

# SECOND TASK RESTART APACHE SERVER

az batch task create \

--job-id PartyApp \

--account-name batchkirkdahl \

--account-endpoint https://batchkirkdahl.eastus.batch.azure.com \

--json-file ./batch-task2.json

#CREATE BATCH POOL

echo

echo

echo ======================================

echo "Creating Batch Pool"

echo ======================================

az batch pool create \

--template batch-pool.json \

--account-name batchkirkdahl \

--account-endpoint <https://batchkirkdahl.eastus.batch.azure.com>

SUPPORTING FILES

**FILENAME: batch-pool.json**

{

"parameters": {

"nodeCount": {

"type": "int",

"metadata": {

"description": "The number of pool nodes"

}

},

"poolId": {

"type": "string",

"metadata": {

"description": "The pool ID "

}

}

},

"pool": {

"type": "Microsoft.Batch/batchAccounts/pools",

"apiVersion": "2016-12-01",

"properties": {

"id": "[parameters('poolId')]",

"virtualMachineConfiguration": {

"imageReference": {

"publisher": "Canonical",

"offer": "UbuntuServer",

"sku": "16.04.0-LTS",

"version": "latest"

},

"nodeAgentSKUId": "batch.node.ubuntu 16.04"

},

"vmSize": "STANDARD\_A1",

"enableInterNodeCommunication": true,

"targetDedicatedNodes": "[parameters('nodeCount')]",

"enableAutoScale": false,

"maxTasksPerNode": 1,

"taskSchedulingPolic": {

"nodeFillType": "pack"

},

"url": "https://batchkirkdahl.eastus.batch.azure.com/pools/webservers",

"networkConfiguration": {

"poolendpointConfiguration": {

"inboundNatPools": [

{

"backendPort": 80,

"frontendPortRangeEnd": 4000,

"frontendPortRangeStart": 3000,

"name": "http.0",

"networkSecurityGroupRules": [

{

"access": "allow",

"priority": 150,

"sourceAddressPrefix": "\*"

}

],

"protocol": "tcp"

}

]

},

"subnetId": "/subscriptions/21ad651f-2ff2-49d2-87b2-50c56efef22c/resourceGroups/rg-kirkdahl/providers/Microsoft.Network/virtualNetworks/vnet-kirkdahl/subnets/subnet-kirkdahl"

},

"applicationPackageReferences": [

{

"applicationId": "PartyApp",

"version": 1.0

}

],

"packageReferences": [

{

"type": "aptPackage",

"id": "apache2"

},

{

"type": "aptPackage",

"id": "unzip"

}

]

}

}

}

**FILENAME: batch-task.json**

{

"applicationPackageReferences": [

{

"applicationId": "partyapp",

"version": "1.0"

}

],

"commandLine": "sudo -S unzip -u /mnt/batch/tasks/apppackages/partyapp\*.zip -d /var/www/html",

"constraints": {

"maxTaskRetryCount": 1

},

"containerSettings": null,

"dependsOn": null,

"displayName": "unzip",

"id": "unzipSite",

"userIdentity": {

"autoUser": {

"elevationLevel": "admin",

"scope": "task"

},

"userName": null

}

}

**FILENAME: batch-task2.json**

{

"applicationPackageReferences": [

{

"applicationId": "partyapp",

"version": "1.0"

}

],

"commandLine": "sudo -S systemctl restart apache2",

"constraints": {

"maxTaskRetryCount": 1

},

"containerSettings": null,

"dependsOn": null,

"displayName": "unzip",

"id": "restartApache",

"userIdentity": {

"autoUser": {

"elevationLevel": "admin",

"scope": "task"

},

"userName": null

}

}