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
#CREATE RESOURCE GROUP
echo
echo
echo "Creating Resource Group"
az group create \
   --name rg-kirkdahl \
   --location eastus
#CREATE STORAGE ACCOUNT
echo
echo
```

echo "Creating Storage Account"

```
az storage account create \
  --resource-group rg-kirkdahl \
  --name sakirkdahl \
  --location eastus \
  --sku Standard LRS
#CREATE VNET
echo
echo
echo "Creating VNET"
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 "Creating Batch Account"
az batch account create \
  --name batchkirkdahl \
  --storage-account sakirkdahl \
  --resource-group rg-kirkdahl \
  --location eastus
#UPLOAD APPLICATION
echo
echo
echo "Creating Application Package"
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 "Creating Job"
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 "Creating Job Tasks"
# 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 "Creating Batch Pool"
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

```
"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",
```

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
  }
}
```