# Lab Manual- Azure CLI for Solution Developer

Prepared for:

**Date:** 18th Nov 2018

Prepared by: Aditi Shrivastava

Document Name: Lab Manual

**Document Number** SysOpsLab311

**Contributor:** 

# **Table of Contents**

1	OBJECTIVE	3
2	PRE-REQUISISTE	3
3	Connect to Azure with Azure Cli	3
3.1	Azure Resource Group	6
3.2	Azure VM Comamnd	8

# 1 OBJECTIVE

Azure CLI is a cross-platform command line tool, that is used to manage and administrate Microsoft Azure. It doesn't replace PowerShell but provides an alternative to using managing Azure from the command line. You can still continue using PowerShell, the APIs and the Azure Portal just like before. Azure CLI provides some tangible benefits over these, especially over PowerShell in that it's very nimble and can be quickly installed on almost any platform. This Lab will cover the basics of configuring Azure cli.

Actually an Azure CLI command has the following structure:

- a command group which represents an Azure service and which can be the composition of subgroups
- a command which is the action you want to do on the group / Azure service
- arguments optionally which are a list of parameter names and values

# 2 PRE-REQUISISTE

- Accounts in Azure
- A local Computer with 4 CPU, 16 GB RAM, 200 GB disk space

# 3 Connect to Azure with Azure Cli

1. Open command prompt in Admin Mode and type below command

### az login

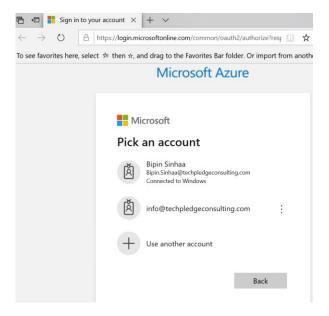
```
Administrator: Command Prompt - az login

Microsoft Windows [Version 10.0.17763.864]

(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>az login
```

2. It open the login screen in browser and just type your username password



3. Once you get successfully authenticate you get this message on command

You can also login using below command

```
az login -u johndoe@contoso.com -p VerySecret
```

4. Type below command to check the current Login user ( Notice the output format it is called **Jason** format which is default)

```
C:\Windows\system32>az account list --all
[
    "cloudName": "AzureCloud",
    "id": "28020c11-a22a-4989-8e60-706f0ce22e0f",
    "isDefault": true,
    "name": "Free Trial",
    "state": "Enabled",
    "tenantId": "687e543f-3a32-40cd-9590-e7c0a8b55002",
    "user": {
        "name": "mudiupoovandhava@gmail.com",
        "type": "user"
      }
    }
}
```

5. Now type the same command with different output format table

# az account list --all --output table

```
C:\Windows\system32>az account list --all --output table
Name CloudName SubscriptionId State IsDefault
------
Free Trial AzureCloud 28020c11-a22a-4989-8e60-706f0ce22e0f Enabled True
```

6. You can change the default setting like output format like table type below command and press Y
, press 3 when asking outper format

az configure

```
C:\Windows\system32>az configure
Welcome to the Azure CLI! This command will guide you through logging in and setting some default values.
Your settings can be found at C:\Users\SHRUTI\.azure\config
Your current configuration is as follows:
[cloud]
name = AzureCloud
Do you wish to change your settings? (y/N): y
What default output format would you like?
 [1] json - JSON formatted output that most closely matches API responses.
[2] jsonc - Colored JSON formatted output that most closely matches API responses.
[3] table - Human-readable output format.
[4] tsv - Tab- and Newline-delimited. Great for GREP, AWK, etc.
[5] yaml - YAML formatted output. An alternative to JSON. Great for configuration files.
[6] none - No output, except for errors and warnings.
Please enter a choice [Default choice(1)]: 3
Would you like to enable logging to file? (y/N): n
Microsoft would like to collect anonymous Azure CLI usage data to improve our CLI. Participation is volunt
sends information to Microsoft about how you use Azure CLI. To update your choice, run "az configure" aga
Select y to enable data collection. (Y/n): n
CLI object cache time-to-live (TTL) in minutes [Default: 10]:
You're all set! Here are some commands to try:
 $ az login
$ az vm create --help
$ az feedback
C:\Windows\system32>
```

# 3.1 Azure Resource Group

• To list all Resource Groups, use:

### az group list

C:\Windows\system32>az group list Name	Location	Status
cloud-shell-storage-centralindia NetworkWatcherRG sqldmES sqlmngdins stretchgroup-desktop-3lo2l3v-eastus	centralindia westindia eastus westindia eastus	Succeeded Succeeded Succeeded Succeeded Succeeded

• To create a new Resource Group Name Azclidemo at EASUS region , type:

az group create --name azcclidemo --location eastus

```
C:\Windows\system32>az group create --name azcclidemo --location eastus
Location Name
-----eastus azcclidemo
```

• Now list the resources group again to see your created Resources group Azclidemo

### az group list

C:\Windows\system32>az group list Name	Location	Status
azcclidemo	eastus	Succeeded
cloud-shell-storage-centralindia	centralindia	Succeeded
NetworkWatcherRG	westindia	Succeeded
sqldmES	eastus	Succeeded
sqlmngdins	westindia	Succeeded
stretchgroup-desktop-3lo2l3v-eastus	eastus	Succeeded

7. Now to delete the Resources group **Azclidemo** type below command and type **list command** to verify

az group delete --resource-group azcclidemo --yes --no-wait

# az group list

```
C:\Windows\system32>az group delete --resource-group azcclidemo --yes --no-wait
C:\Windows\system32>az group list
Name
                                  Location Status
                                  eastus Deleting
azcclidemo
                                  centralindia Succeeded
cloud-shell-storage-centralindia
NetworkWatcherRG
                                  westindia
                                               Succeeded
sqldmES
                                  eastus
                                               Succeeded
salmngdins
                                  westindia
                                               Succeeded
stretchgroup-desktop-3lo2l3v-eastus eastus
                                               Succeeded
```

# 3.2 Azure VM Comamnd

• Type below command to create a vm name **myVM** in resource group **sqldmES** resource group with default user **demouser** 

AZ vm create --resource-group "DemoRG" --name "myVM" --image "Win2016Datacenter" --admin-username "Demouser" --admin-password "Demouser@123" --location eastus

• To list all **VM** type below command

### az vm list

```
C:\Windows\system32>az vm list
Name ResourceGroup Location Zones

myVM SQLDMES eastus
newtesting SQLMNGDINS centralus
```

• To stop VM type below command

az vm stop --resource-group **DemoRG** --name **myVM** 

```
C:\Windows\system32>az vm stop --resource-group sqldmES --name myVM
About to power off the specified VM...
It will continue to be billed. To deallocate a VM, run: az vm deallocate.
```

• To start VM type below command

C:\Windows\system32>az vm start --resource-group sqldmES --name myVM

• To Delete **VM** type below command

az vm delete --resource-group demoRG --name myVM

```
C:\Windows\system32>az vm delete --resource-group sqldmES --name myVM Are you sure you want to perform this operation? (y/n): y - Running ..
```