

Azure Assignment

(AZ – 104- Module 1)

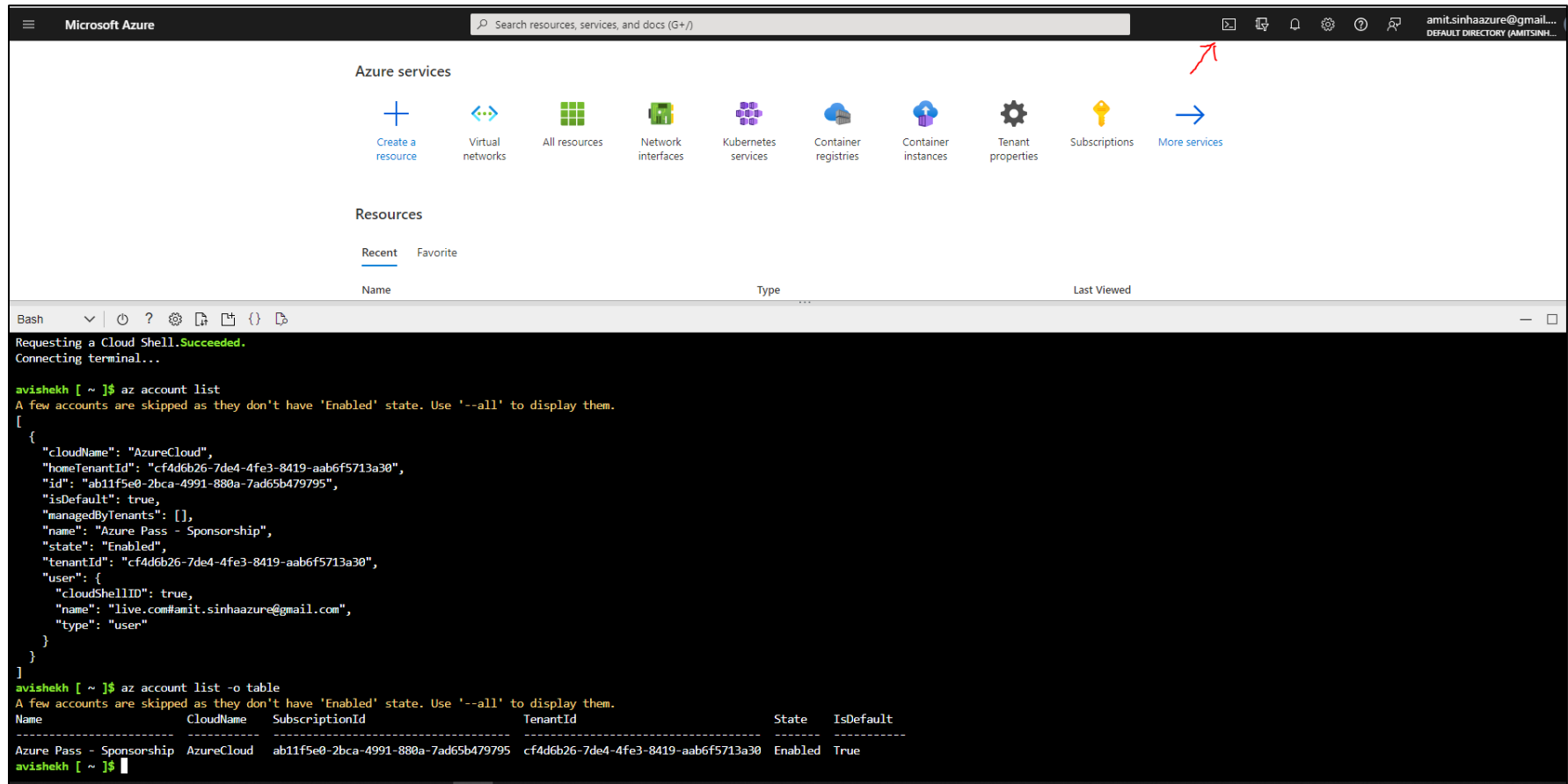
Avishekh Sinha

Module 1 - Basics

Assignment 1

1. Connect to azure cloud shell.

Ans: Step1: Opened the azure portal and clicked on the cloudshell button.



The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and a user profile. Below, the 'Azure services' section displays various service icons. A red arrow points to the 'More services' button. The 'Resources' section is visible below. At the bottom, a terminal window shows the following commands and output:

```
Bash
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

avishekh [ ~ ]$ az account list
A few accounts are skipped as they don't have 'Enabled' state. Use '--all' to display them.
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "cf4d6b26-7de4-4fe3-8419-aab6f5713a30",
    "id": "ab11f5e0-2bca-4991-880a-7ad65b479795",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Azure Pass - Sponsorship",
    "state": "Enabled",
    "tenantId": "cf4d6b26-7de4-4fe3-8419-aab6f5713a30",
    "user": {
      "cloudShellID": true,
      "name": "live.com#amit.sinhaazure@gmail.com",
      "type": "user"
    }
  }
]

avishekh [ ~ ]$ az account list -o table
A few accounts are skipped as they don't have 'Enabled' state. Use '--all' to display them.
Name                        CloudName  SubscriptionId  TenantId  State  IsDefault
-----
Azure Pass - Sponsorship    AzureCloud  ab11f5e0-2bca-4991-880a-7ad65b479795  cf4d6b26-7de4-4fe3-8419-aab6f5713a30  Enabled  True
avishekh [ ~ ]$
```

2. Create a resource group “new-rg” in South Central US region

Command: **az group create -l southcentralus -n new-rg**

Microsoft Azure

Search resources, services, and docs (G+)

amit.sinhaazure@gmail...
DEFAULT DIRECTORY (AMITSINH...)

Azure services

Create a resource Virtual networks All resources Network interfaces Kubernetes services Container registries Container instances Tenant properties Subscriptions More services

Bash

```
{
  "cloudName": "AzureCloud",
  "homeTenantId": "cf4d6b26-7de4-4fe3-8419-aab6f5713a30",
  "id": "ab11f5e0-2bca-4991-880a-7ad65b479795",
  "isDefault": true,
  "managedByTenants": [],
  "name": "Azure Pass - Sponsorship",
  "state": "Enabled",
  "tenantId": "cf4d6b26-7de4-4fe3-8419-aab6f5713a30",
  "user": {
    "cloudShellID": true,
    "name": "live.com#amit.sinhaazure@gmail.com",
    "type": "user"
  }
}
]
```

avishekh [~]\$ az account list -o table

A few accounts are skipped as they don't have 'Enabled' state. Use '--all' to display them.

Name	CloudName	SubscriptionId	TenantId	State	IsDefault
Azure Pass - Sponsorship	AzureCloud	ab11f5e0-2bca-4991-880a-7ad65b479795	cf4d6b26-7de4-4fe3-8419-aab6f5713a30	Enabled	True

avishekh [~]\$ az group create -l southcentralus -n new-rg

```
{
  "id": "/subscriptions/ab11f5e0-2bca-4991-880a-7ad65b479795/resourceGroups/new-rg",
  "location": "southcentralus",
  "managedBy": null,
  "name": "new-rg",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

avishekh [~]\$

List the Resource Group

```
avishekh [ ~ ]$ az group list -o table
```

Name	Location	Status
cloud-shell-storage-southcentralus	southcentralus	Succeeded
new-rg	southcentralus	Succeeded
DefaultResourceGroup-CIN	centralindia	Succeeded
NetworkWatcherRG	centralindia	Succeeded
container-grp	centralindia	Succeeded
webappRG	centralus	Succeeded
DefaultResourceGroup-CUS	centralus	Succeeded
ApacheVM_group	eastus	Succeeded

Assignment 2

1. Connect Azure powershell to your azure account
2. Create a new resource group in South Central US with the name "rg-powershell"

Ans -

Command - **New-AzResourceGroup -Name rg-powershell -Location "South Central US"**

The image shows a screenshot of the Microsoft Azure portal interface. At the top, the header bar displays "Microsoft Azure" and a search bar. Below the header, the "Azure services" section is visible, featuring icons for "Create a resource", "Virtual networks", "All resources", "Network interfaces", "Kubernetes services", "Container registries", "Container instances", "Tenant properties", "Subscriptions", and "More services". A red arrow points to the "More services" link. Below the portal interface, a PowerShell terminal window is open. The terminal shows the command `New-AzResourceGroup -Name rg-powershell -Location "South Central US"` being executed. The output displays the resource group details: `ResourceGroupName : rg-powershell`, `Location : southcentralus`, `ProvisioningState : Succeeded`, `Tags :`, and `ResourceId : /subscriptions/ab11f5e0-2bca-4991-880a-7ad65b479795/resourceGroups/rg-powershell`. A red arrow points to the PowerShell icon in the terminal window's title bar.

```
PowerShell
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

MOTD: To edit files in the shell, type: code, vim, emacs, vi or nano

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/avishekh> New-AzResourceGroup -Name rg-powershell -Location "South Central US"

ResourceGroupName : rg-powershell
Location           : southcentralus
ProvisioningState  : Succeeded
Tags              :
ResourceId         : /subscriptions/ab11f5e0-2bca-4991-880a-7ad65b479795/resourceGroups/rg-powershell

PS /home/avishekh>
```

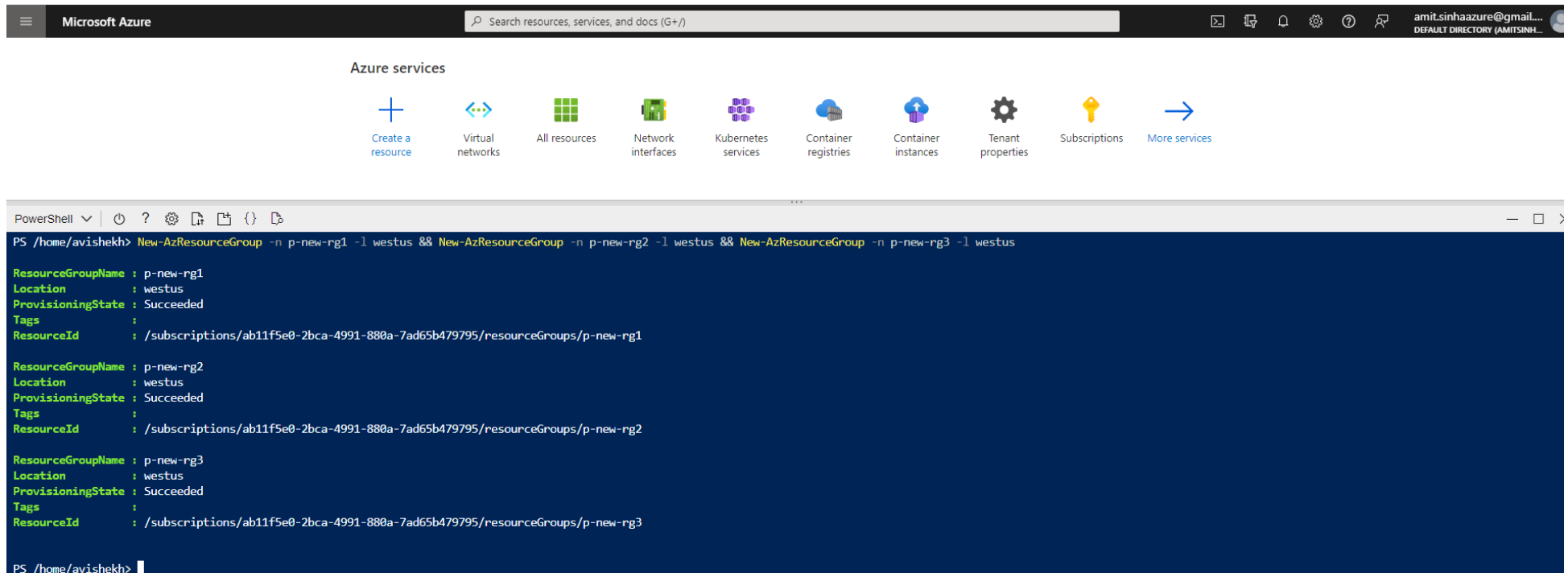
Assignment 3

USING POWERSHELL

Create three more Resource groups in a specific region let's say "West US"

Ans -

Command - **New-AzResourceGroup -n p-new-rg1 -l westus && New-AzResourceGroup -n p-new-rg2 -l westus && New-AzResourceGroup -n p-new-rg3 -l westus**



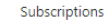
2. List all resource groups in West US

Command- **Get-AzResourceGroup -Location westus | FT**

[+](#)
Create a resource



Virtual
networks



Create three more Resource groups in a specific region let's say "West US"

Microsoft Azure

Search resources, services, and docs (G+)

amit.sinhaazure@gmail...
DEFAULT DIRECTORY (AMITSINH...

Azure services

Create a resource Virtual networks All resources Network interfaces Kubernetes services Container registries Container instances Tenant properties Subscriptions More services

Bash

Connecting terminal...

```
avishekh [ ~ ]$ az group create -l westus -n az-new-rg1 && az group create -l westus -n az-new-rg2 && az group create -l westus -n az-new-rg3
{
  "id": "/subscriptions/ab11f5e0-2bca-4991-880a-7ad65b479795/resourceGroups/az-new-rg1",
  "location": "westus",
  "managedBy": null,
  "name": "az-new-rg1",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
{
  "id": "/subscriptions/ab11f5e0-2bca-4991-880a-7ad65b479795/resourceGroups/az-new-rg2",
  "location": "westus",
  "managedBy": null,
  "name": "az-new-rg2",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
{
  "id": "/subscriptions/ab11f5e0-2bca-4991-880a-7ad65b479795/resourceGroups/az-new-rg3",
  "location": "westus",
  "managedBy": null,
  "name": "az-new-rg3",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
avishekh [ ~ ]$
```

2. List all resource groups in West US

Command - `az group list --query "[?location=='westus']" -o table`

```
avishekh [ ~ ]$ az group list --query "[?location=='westus']" -o table
Name      Location
-----
p-new-rg1 westus
p-new-rg2 westus
p-new-rg3 westus
az-new-rg1 westus
az-new-rg2 westus
az-new-rg3 westus
avishekh [ ~ ]$
```

Assignment 4

Delete all the resource groups in West US region using one command

Ans

USING AZURE CLI

Command - `az group list --query "[?location=='westus']".name -o tsv | xargs -otl az group delete -n`

```
Bash
avishekh [ ~ ]$ az group list --query "[?location=='westus']".name -o tsv | xargs -otl az group delete -n
az group delete -n p-new-rg1
Are you sure you want to perform this operation? (y/n): y
az group delete -n p-new-rg2
Are you sure you want to perform this operation? (y/n): y
/ Running ..
```

USING POWERSHELL

Command - `Get-AzResourceGroup -l 'westus' | Remove-AzResourceGroup`

PowerShell ▾ | 🔌 ? ⚙️ 📄 📁 {} 📄

```
PS /home/avishekh> Get-AzResourceGroup -l 'westus' | Remove-AzResourceGroup
```

Confirm

Are you sure you want to remove resource group 'az-new-rg2'?

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

True

Confirm

Are you sure you want to remove resource group 'az-new-rg3'?

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): Y

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