

Assignment 1

Tasks To Be Performed:

1. Connect to Azure Cloud Shell
2. Create a resource group "new-rg" in South Central US region

Send the commands along with the screenshots for the completion of this assignment.

We can access to the PowerShell by two method within Azure portal and own system after connecting azure account to local PowerShell.

←

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🔒

https://portal.azure.com/#home

⌵

A 🔔 ⭐

🌐

🔍

👤


shuklasiddharth945@g...
DEFAULT DIRECTORY

☰ Microsoft Azure Upgrade 🔍 Search resources, services, and docs (G+ /)

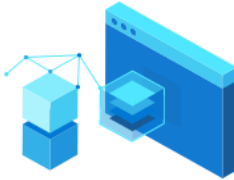
📧 📄 🔔 ⚙️ ⓘ 🗣️

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Create a resource




Resource groups




Storage accounts




Subscriptions




Management groups




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Virtual machines



App Services



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More services

Resources

Recent

Favorite

Name

Type

Last Viewed

Open a PowerShell in windows run as a administrator .For creation of new resource group give command .

```
New-AzResourceGroup -name MyfirstRG-PWSH -location SouthCentralUS -Tag @{"CostCentre"="SiddharthaFree Trial"; "Owner"="Sid"; "CreationDate"="15th-dec-23"; "UsageLocation"="SouthCentralUS"}
```

Administrator: Windows PowerShell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Windows\system32> Get-AzSubscription

Name	Id	TenantId	State
----	--	-----	-----
Siddhartha Free Trial	22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9	4f897479-3154-4b09-a2cf-b6b68afea34c	Enabled

PS C:\Windows\system32> New-AzResourceGroup -name MyfirstRG-PWSH -location SouthCentralUS -Tag @{"CostCentre"="SiddharthaFree Trial"; "Owner"="Sid"; "CreationDate"="15th-dec-23"; "UsageLocation"="SouthCentralUS"}

ResourceGroupName : MyfirstRG-PWSH
Location : southcentralus
ProvisioningState : Succeeded
Tags :
 Name Value

 CreationDate 15th-dec-23
 CostCentre SiddharthaFree Trial
 Owner Sid
 UsageLocation SouthCentralUS

ResourceId : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/MyfirstRG-PWSH

PS C:\Windows\system32>

Resource groups

Default Directory

+ Create

⚙️ Manage view

↺ Refresh

⬇️ Export to CSV

🔗 Open query

🏷️ Assign tags

Filter for any field...

Subscription equals all

Location equals all

+ Add filter

Showing 1 to 2 of 2 records.

<input type="checkbox"/> Name ↑↓	Subscription ↑↓	Location ↑↓	
<input type="checkbox"/> cloud-shell-storage-centralindia	Siddhartha Free Trial	Central India	...
<input type="checkbox"/> MyfirstRG-PWSH	Siddhartha Free Trial	South Central US	...

Under Resource Group – essentials – tags were present .

MyfirstRG-PWSH

Resource group

Search

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Create

Manage view

Delete resource group

Refresh

Export to CSV

Open query

Assign tags

Essentials

Subscription [\(move\)](#)
[Siddhartha Free Trial](#)

Subscription ID
22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9

Tags [\(edit\)](#)

CostCentre : SiddharthaFree Trial

UsageLocation : SouthCentralUS

CreationDate : 15th-dec-23

Owner : Sid

Deployments
[No deployments](#)

Location
South Central US

JSON View

Resources

Recommendations

Filter for any field...

Type equals all

Location equals all

Add filter

Showing 0 to 0 of 0 records.

Show hidden types

No grouping

List view

Name

Type

Location

Another method of creation of RG – go on create .

Resource groups

Default Directory

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Filter for any field...

Subscription equals all

Location equals all

Add filter

Showing 1 to 2 of 2 records.

Name

cloud-shell-storage-centralindia

MyfirstRG-PWSH

Insert Group name – subscription is already choose – choose region where we want to create the RG - click on review and create or move to next to add tags .

[Home](#) > [Resource groups](#) >

Create a resource group ...

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * ⓘ
Siddhartha Free Trial

Resource group * ⓘ
sampleRG ✓

Resource details

Region * ⓘ
(US) East US ✓

[Home](#) > [Resource groups](#) >

Create a resource group ...

Basics **Tags** Review + create

Apply tags to your Azure resources to logically organize them by categories. A tag consists of a key (name) and a value. Tag names are case-insensitive and tag values are case-sensitive. [Learn more](#)

Name ⓘ	Value ⓘ	Resource	
CostCentre	: SiddharthaFree Trial	Resource group	
CreationDate	: 15th-dec-23	Resource group	
Owner	: Sid	Resource group	
UsageLocation	: SouthCentralUS	Resource group	
	:	Resource group	

Assignment 2

Azure 104 Certification Course



Tasks To Be Performed:

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

Please submit the screenshot along with the commands.

Following are the commands to connect Azure account to PowerShell.

Open your Windows Powershell ISE as "Run as Administrator".

Start running these commands one by one:

```
$PSVersionTable.PSVersion  
Install-Module -Name Az -AllowClobber -Scope AllUsers  
Set-ExecutionPolicy Bypass  
Connect-AzAccount
```

If you get error = "module was found but could not be loaded"
then run this final command:
set-executionpolicy remotesigned

```
Connect-AzAccount  
Enter your id and password (Now you can work)
```

```
PS C:\Windows\system32> New-AzResourceGroup -name rg-powershell -location SouthCentralUS

ResourceGroupName : rg-powershell
Location           : southcentralus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/rg-powershell

PS C:\Windows\system32> █
```

Resource groups

Default Directory

[+](#) Create [⚙️](#) Manage view [↻](#) Refresh [↓](#) Export to CSV [🔗](#) Open query | [🏷️](#) Assign tags




Filter for any field...

Subscription equals **all**

Location equals **all** [✕](#)









[+🔍](#) Add filter

Showing 1 to 3 of 3 records.

<input type="checkbox"/> Name ↑↓	Subscription ↑↓
<input type="checkbox"/>  cloud-shell-storage-centralindia	Siddhartha Free Trial
<input type="checkbox"/>  MyfirstRG-PWSH	Siddhartha Free Trial
<input type="checkbox"/>  rg-powershell ✓	Siddhartha Free Trial


 Search





 Create  Manage view   Delete resource group  Refresh  Export to CSV  Open query |  Assign tags ...

 Overview

 Activity log


 Access control (IAM)


 Tags


 Resource visualizer

 Events


Settings

 Deployments

 Security

 Deployment stacks

 Policies

 Properties

^ Essentials

[JSON View](#)

Subscription ([move](#))
[Siddhartha Free Trial](#)

Subscription ID
22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9

Tags ([edit](#))
[Add tags](#)

Deployments
[No deployments](#)

Location
South Central US ✓


Resources

Recommendations

Filter for any field...

Type equals **all** ✕

Location equals **all** ✕

 Add filter

Showing 0 to 0 of 0 records. ☐ Show hidden types ⓘ

No grouping ▼

☰ List view ▼

Name ↑↓

Type ↑↓

Location ↑↓

Assignment 3

Tasks To Be Performed:

Use Azure CLI and Azure PowerShell to:

1. Create three more resource groups in a specific region. For example:
"West US"
2. List all resource groups in West US

Using CMD in windows home open CLI and give the command for resource group creation.

az group create --name WESTUS1 --location westus , az group create --name WESTUS2 --location westus.

```
C:\Users\SHRUTI SHUKLA>az group create --name WESTUS1 --location westus
{
  "id": "/subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/WESTUS1",
  "location": "westus",
  "managedBy": null,
  "name": "WESTUS1",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

```
C:\Users\SHRUTI SHUKLA>az group create --name WESTUS2 --location westus
{
  "id": "/subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/WESTUS2",
  "location": "westus",
  "managedBy": null,
  "name": "WESTUS2",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

```
C:\Users\SHRUTI SHUKLA>_
```

We can use the command az group list -o table to list out all resource group in az account subscription.

```
C:\Users\SHRUTI SHUKLA>az group list -o table
Name                                Location    Status
-----
MyfirstRG-PWSH                     southcentralus Succeeded
rg-powershell                      southcentralus Succeeded
cloud-shell-storage-centralindia    centralindia  Succeeded
WESTUS1                             westus       Succeeded
WESTUS2                             westus       Succeeded

C:\Users\SHRUTI SHUKLA>
```

```
PS C:\Windows\system32> New-AzResourceGroup -name WESTUS3 -location westus

ResourceGroupName : WESTUS3
Location           : westus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/WESTUS3
```

Filter for any field... Subscription equals all Location equals all Add filter

Showing 1 to 6 of 6 records.

<input type="checkbox"/> Name ↑↓	Subscription ↑↓
<input type="checkbox"/> cloud-shell-storage-centralindia	Siddhartha Free Trial
<input type="checkbox"/> MyfirstRG-PWSH	Siddhartha Free Trial
<input type="checkbox"/> rg-powershell	Siddhartha Free Trial
<input type="checkbox"/> WESTUS1 ✓	Siddhartha Free Trial
<input type="checkbox"/> WESTUS2 ✓	Siddhartha Free Trial
<input type="checkbox"/> WESTUS3 ✓	Siddhartha Free Trial

Use command Get-AzResourceGroup to list out all resource group present in azure account subscription.

```
PS C:\Windows\system32> Get-AzResourceGroup

ResourceGroupName : MyfirstRG-PWSH
Location           : southcentralus
ProvisioningState  : Succeeded
Tags               :
                   Name      Value
                   =====
                   CreationDate 15th-dec-23
                   CostCentre    SiddharthaFree Trial
                   Owner         Sid
                   UsageLocation SouthCentralUS

ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/MyfirstRG-PWSH

ResourceGroupName : rg-powershell
Location           : southcentralus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/rg-powershell

ResourceGroupName : cloud-shell-storage-centralindia
Location           : centralindia
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/cloud-shell-storage-centralindia

ResourceGroupName : WESTUS1
Location           : westus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/WESTUS1

ResourceGroupName : WESTUS2
Location           : westus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/WESTUS2

ResourceGroupName : WESTUS3
Location           : westus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/WESTUS3

PS C:\Windows\system32> █
```

Assignment 4

Tasks To Be Performed:

Use Azure CLI and Azure PowerShell to:

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

Use command Remove-AzResourceGroup -Name WESTUS1 to delete the resource group.

```
PS C:\Windows\system32> Remove-AzResourceGroup -Name WESTUS1

Confirm
Are you sure you want to remove resource group 'WESTUS1'?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
True
PS C:\Windows\system32> █
```

Use command az group delete --name WESTUS3 for deleting the resource group.

```
C:\Users\SHRUTI SHUKLA>az group delete --name WESTUS3
Are you sure you want to perform this operation? (y/n): y

C:\Users\SHRUTI SHUKLA>
```

Get-AzResourceGroup | Where-Object {\$_.Location -eq 'region_name'} | Remove-AzResourceGroup -Force

For deleting all resource group of specific region.

```
PS C:\Windows\system32> Get-AzSubscription

Name                Id                TenantId                State
----                -
Siddhartha Free Trial 22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9 4f897479-3154-4b09-a2cf-b6b68afea34c Enabled

PS C:\Windows\system32> Get-AzResourceGroup

ResourceGroupName : MyfirstRG-PWSH
Location           : southcentralus
ProvisioningState  : Succeeded
Tags              :
                  Name                Value
                  =====
                  CreationDate        15th-dec-23
                  CostCentre          SiddharthaFree Trial
                  Owner                Sid
                  UsageLocation        SouthCentralUS

ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/MyfirstRG-PWSH

ResourceGroupName : rg-powershell
Location           : southcentralus
ProvisioningState  : Succeeded
Tags              :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/rg-powershell

ResourceGroupName : cloud-shell-storage-centralindia
Location           : centralindia
ProvisioningState  : Succeeded
Tags              :
ResourceId         : /subscriptions/22007c0c-9a06-4ca6-9b3d-cbf0984ad5d9/resourceGroups/cloud-shell-storage-centralindia

PS C:\Windows\system32> Get-AzResourceGroup | Where-Object {$_.Location -eq 'region_name'} | Remove-AzResourceGroup -Force
>>
PS C:\Windows\system32> Get-AzResourceGroup | Where-Object {$_.Location -eq 'SouthCentralUS'} | Remove-AzResourceGroup -Force
>>
True
True
PS C:\Windows\system32>
```


<input type="checkbox"/> Name ↑↓	Subscription ↑↓	Location ↑↓
<input type="checkbox"/>  cloud-shell-storage-centralindia	Siddhartha Free Trial	Central India
<input type="checkbox"/>  shukla1	Siddhartha Free Trial	East US
<input type="checkbox"/>  shukla2	Siddhartha Free Trial	East US

Bash

▼

⏻

?

⚙️

📄

📄

{ }

🔍

Connecting terminal...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI

Type "help" to learn about Cloud Shell

siddhartha [~]\$ az group list --query "[?location=='eastus']").name -o tsv | xargs -otl az group delete -n

az group delete -n shukla1

Are you sure you want to perform this operation? (y/n): y

az group delete -n shukla2

Are you sure you want to perform this operation? (y/n): y

siddhartha [~]\$

Resource groups

Default Directory

+ Create
 ⚙️ Manage view
 ↻ Refresh
 ⬇️ Export to CSV
 🔗 Open query
 |
 🏷️ Assign tags

Filter for any field...


Subscription equals all

Location equals all

+ Add filter

Showing 1 to 1 of 1 records.

No grouping

<input type="checkbox"/> Name ↑↓	Subscription ↑↓	Location ↑↓
<input type="checkbox"/>  cloud-shell-storage-centralindia	Siddhartha Free Trial	Central India

Bash Commands:

For listing active subscription:

```
az account list --output table  
az account list
```

For Creating a resource group:

```
az group create -n new-rg -l southcentralus  
az group create --name new-rg --location southcentralus
```

For creating 3 or more resource groups using single command:

```
az group create -n rg-11 -l westus && az group create -n rg-22 -l westus && az group create -n rg-33 -l westus
```

For listing all the resource groups in a subscription:

```
az group list
```

For listing all the resource groups in a subscription in tabular format:

```
az group list -o table  
az group list --output table
```

For listing resource groups in a particular region:

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

For listing resource groups in a particular region in tabular format:

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

For deleting a resource group:

```
az group delete -n rg-1
```

For deleting all the resource groups in a particular region:

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

PowerShell Commands:

For listing all of the subscriptions:

Get-AzSubscription

For creating a resource group:

New-azresourcegroup -n rg-powershell -l southcentralus

New-azresourcegroup -name rg-powershell -location southcentralus

Creating 3 or more resource group using a single command:

New-azresourcegroup -n rg-1 -l westus && New-azresourcegroup -n rg-2 -l westus && New-azresourcegroup -n rg-3 -l westus

For listing all the resource groups in your subscription:

Get-azresourcegroup

For listing resource groups in tabluar format:

Get-azresourcegroup | Format-Table

For listing resource groups in a particular region:

Get-azresourcegroup -l westus

For listing resource groups in a particular region in tabluar format:

Get-azresourcegroup -l westus | Format-Table

For Deleting a particular resource group:

Remove-azresourcegroup -n rg-2

Remove-azresourcegroup -name rg-2

For deleting a resource group forcefully (It will not ask for the confirmation):

Remove-azresourcegroup -n rg-3 -Force

For deleting all the resource groups in a particular region using single command:

Get-azresourcegroup -l westus | remove-azresourcegroup

Get-azresourcegroup -l westus | remove-azresourcegroup -Force //Will forcefully delete the resource groups without even asking for confirmation