



## Section 3 - Azure Portal and Creating First Resource:

This portal is a one stop solution for everything that we have to create in azure. Whether it is creating or removing the resources Azure portal is the place where we will be doing it.

There is a portal on left side of azure. This menu has all the list of services which we can do in azure.

Under the setting option which is on top right corner we can set the **theme**. Beside that there is a **bell symbol** which is for notifications. Beside the bell notification icon there is a icon which tells us **directory and subscription**. Beside that on top right corner the very first icon is of azure **cloud shell**.

We can also create and manage the resources using the command shell of Azure.

### Account and subscription:

**Subscription is a logical container while account is an identity. All that we create in the could it will be created under the subscription under which the resources are provisioned. We can have multiple subscriptions and we have already created one subscription when we create the free tier account.**

So here the free tier account is a pool of certain resources which come under the free tier subscription. If we wish to create a resource which is out side the free tier subscription then we cannot create it in that case we need to upgrade the subscription.

Account is our identity. It tells us the user to who the account belongs. This accounts contains subscriptions as part of it. So one account has many subscriptions. Account has to got to do with the identity of the person while subscription is the pool of resources which are permitted for that specific account to be created and use.

**In case of organization a single subscription is used by multiple account identity users. They will be having certain restrictions and not all access is provided to**

every one across organization.

## Creating a Resource:

- First we will click on subscription icon which is either shown on home screen or if not then it is under the menu which is on the left side of the screen. There we can see which subscription we are using. For you now it is a free tier account its showing under the subscription.
- Now we will create our first resource and that is **resource group**.
- Step 1: Go to the **search bar** and search there for the **resource groups**. This will take us to the resource group page. There we will see all the list of the resource group that we have. Currently as of now we dont see any list of the resource group listed there as we dont have any.
- Step 2: There on the resource group page we can see a blue button on the middle of the screen which says **create a resource group**. And also there is one **ADD** button on top left of the resource group page which tells us to add a resource group. Click on either of those button to initiate the creation of resource group.
- Resource group costs us nothing to create. After clicking on either of those two buttons AZURE portal will take us to the page of **create a resource group**.
- Step 3: We need to fill the basic information of creating the resource group. First we need to choose the subscription under which we wish to create this resource group. As we have already seen above that what ever we create is associated with some subscription. Then going forward assign a name of the resource group. The last option on this basic setting page is that we need to choose the region under which we wish to create the resource group.
- Step 4: Click on **Review and create** option which is on the bottom of the screen. This takes us to the summary or review page of the resource and there at the bottom there is a option called **create**. Once we click on it our resource will get created. We will get a notification saying that the resource group was created. And the new created resource group will also appear in the resource group page.

## Resource Page tour:

1. For every resource the name of the resource is written on the top left corner. Under the name we can see the type of the resource.
2. Below the name there is a navigation menu with all the options associated with the resource group.
3. The first option inside this navigation bar is **overview**. This overview page shows all the basic information of the resource. And this option is going to be under every resource that we will be creating. Such as subscription id, subscription name, location, deployment etc.
4. On the overview screen there is a horizontal bar which contains few option of the resource; such as add, delete etc.
5. So there click on **delete resource group**. After giving confirmation the resource group will deleted. The resource group is a container and all the resources under a resource group will get deleted.

## Azure CLI:

Azure portal is not the only way of creating the resources. We have azure CLI which can also manage the azure portal and do all the task through the command line interface. It is called as azure cloud shell.

Azure CLI can be used in two different types one is BASH and other is POWERSHELL.

We need to choose the subscription here also. It asks us under which subscription we need to give and store the commands. After choosing the bash CLI will get connected.

Every command in azure shell begins with AZ.

Following is the command to create the resource group from Azure CLI

```
az group create -l westus -n CLITest-rg
```

1. Every command starts with **az** in azure.
2. **group** is keyword to create the resource group.
3. **Create** is the keyword which specifies the action.

4. **-l** is for location or region.
5. **-n** is for name of the resource group.
6. **CLITest** is the name of the resource group.
7. **-rg** is the notation for resource group.

**We can do same with PowerShell its just that the syntax is different.**