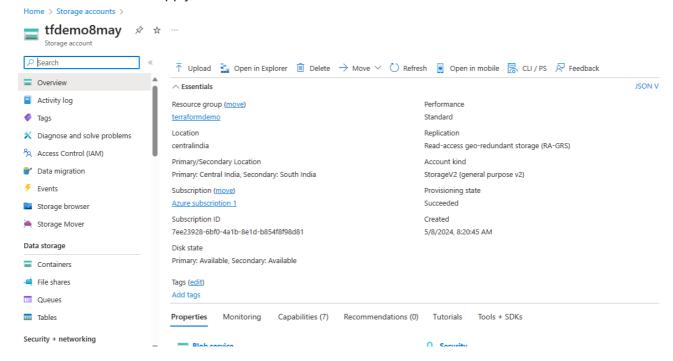
Terraform contd

• Lets add the storage account declaration

```
terraform {
 required_providers {
   azurerm = {
     source = "hashicorp/azurerm"
     version = "3.102.0"
 }
}
provider "azurerm" {
 features {
 }
}
resource "azurerm_resource_group" "storage" {
 name = "storage"
 location = "Central India"
resource "azurerm_storage_account" "example" {
                  = "fromtfmay24"
 resource_group_name = azurerm_resource_group.storage.name
                        = azurerm_resource_group.storage.location
 location
 account tier = "Standard"
 account_replication_type = "GRS"
 tags = {
   environment = "staging"
 }
}
```

Now validata, fmt and apply to create infra



- Refer Here for the changeset
- Now destroy the resources

Hashicorp Configuration Language

• Block syntax

```
block "name" {
    arg1 = value1
    ..
    argn = valuen
}
```

Provider Block: This defines where to create resources. Refer Here

```
provider "<name>" {
    arg1 = value1
    ..
    argn = valuen
}
```

- Terraform block: Refer Here for official docs, we use terraform block to specify which provider version can be used and also which terraform version can be used
- Version constraints Refer Here
- Datatypes: Refer Here
- Resource block: Refer Here for official docs

```
resource "<type>" "<name>" {
}
```

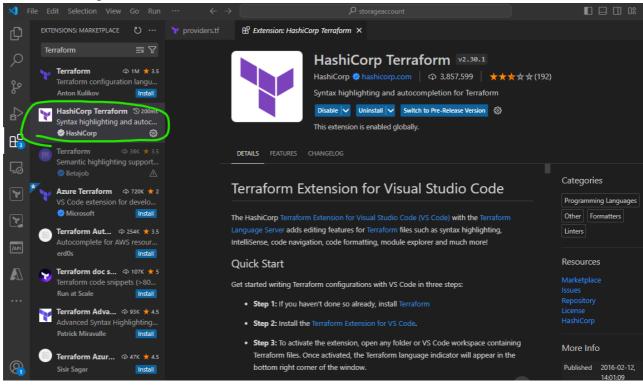
- name here is not the iname of the resource that will be generated in provider rather this is reference or alias to resource for usage with in template.

```
resource "azurerm_resource_group" "noname" {
   name = "luckyname" # this is name of resource in azure
}
```

Generally when you create names use underscores rather than hypens

Terraform Visual Studio Code Setup

We will be using Terraform Extension in visual studio code



Terraform template basic structure

- Create a folder with some meaningful name.
- In this we will be creating minimum 4 files all the time
 - o main.tf: The major infra to be created
 - providers.tf: This file will have provider and terraform configruation
 - o inputs.tf/variables.tf: This file will have variables
 - o outputs.tf: this file has outputs to be shown to the user

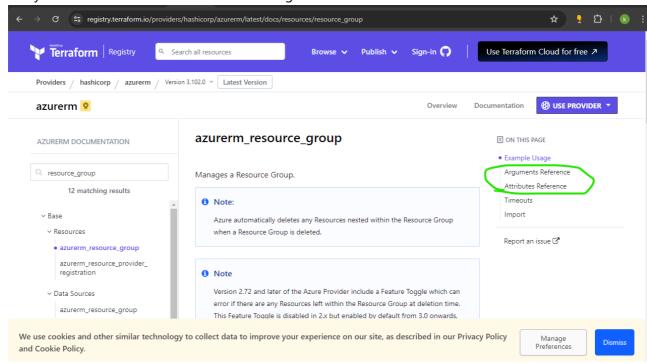
Configuring Azure Provider

 Every Provider in terraform needs credentials. Terraform provides various options to authenticate to Azure Refer Here

- · We will be using the cli credentials
- To declare azure provider we need to create a provider block with name as azurerm

```
provider "azurerm" {
}
```

• Every resource will have documentation of arguments and attributes



Refer Here for the changes done according to things learnt in class today