**Creating Azure Resource group using Terraform in VS code**Before we can proceed with creation of Azure resources there are certain prerequisites that we need to download and install to successfully create the resources

**Prerequisites**1. Install Visual Studio Code  
2. Install Azure CLI  
3. Install Terraform  
4. Setting up path in system variable   
  
  
**1. Installing Visual Studio Code**

Visit the official Visual Studio code <https://code.visualstudio.com/> to download the latest version of the VS code according to your system configuration.  
  
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**2. Install Azure CLI**  
Visit the official Microsoft Azure site <https://learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli> to download and install Azure CLI  
  
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**3. Install Terraform**   
  
Visit the official HashiCorp website <https://developer.hashicorp.com/terraform/downloads> to download the latest release of terraform  
  
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Unzip the file to a local folder and run the terraform.exe file.  
  
**4. Setting up the path in system variable** Go to the control panel > system setting > environmental variables > system variables > path, click on the edit option and add the terraform file directory path. Save and apply.  
  
Open CMD and run ~ terraform -version to check the version installed   
  
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**Creating the Resource group**Go to the VS code and install required extensions for terraform  
  
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In the CMD login in to Azure using Az login  
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 Create a terraform file ( .tf ) with the required script as follows :   
  
 terraform {

required\_providers {

azurerm = {

source = "hashicorp/azurerm"

version = "3.49.0"

}

}

}

provider "azurerm" {

features {}

}

resource "azurerm\_resource\_group" "example" {

name = "examplethree-resource-group"

location = "West US"  
}  
  
  
  
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 Initializing the terraform script with terraform init command ( terraform init )  
  
  
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Validating and using the plan and apply command

Use the terraform validate command to validate the build, after validating use the ~ terraform plan and ~ terraform apply command  
  
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**Resource group ( example-three-resource-group) is created**   
  
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