{

    "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",

    "contentVersion": "1.0.0.1",

    "parameters": {

        "rgName": {

            "type": "string"

        },

        "rgLocation": {

            "type": "string"

        },

        "tags": {

            "type": "object",

            "defaultValue": {}

        }

    },

    "variables": {},

    "resources": [

        {

            "type": "Microsoft.Resources/resourceGroups",

            "apiVersion": "2018-05-01",

            "location": "[parameters('rgLocation')]",

            "name": "[parameters('rgName')]",

            "properties": {},

            "tags": "[parameters('tags')]"

        }

    ],

    "outputs": {}

}

**Create your first template**

1. Open Visual Studio Code with the Resource Manager Tools extension installed.
2. From the **File** menu, select **New File** to create a new file.
3. From the **File** menu, select **Save as**.
4. Name the file **azuredeploy** and select the **JSON** file extension. The complete name of the file **azuredeploy.json**.
5. Save the file to your workstation. Select a path that is easy to remember because you'll provide that path later when deploying the template.
6. Copy and paste the following JSON into the file:

**{**

**"$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",**

**"contentVersion": "1.0.0.0",**

**"resources": []**

**}**

1. This template doesn't deploy any resources. We're starting with a blank template so you can get familiar with the steps to deploy a template while minimizing the chance of something going wrong.

The JSON file has these elements:

* + **$schema**: Specifies the location of the JSON schema file. The schema file describes the properties that are available within a template. For example, the schema defines **resources** as one of the valid properties for a template. Don't worry that the date for the schema is 2019-04-01. This schema version is up to date and includes all of the latest features. The schema date hasn't been changed because there have been no breaking changes since its introduction.
  + **contentVersion**: Specifies the version of the template (such as 1.0.0.0). You can provide any value for this element. Use this value to document significant changes in your template. When deploying resources using the template, this value can be used to make sure that the right template is being used.
  + **resources**: Contains the resources you want to deploy or update. Currently, it's empty, but you'll add resources later.

1. Save the file.

## Sign in to Azure

To start working with Azure PowerShell/Azure CLI, sign in with your Azure credentials.

**Connect-AzAccount**

## Create resource group

When you deploy a template, you specify a resource group that will contain the resources. Before running the deployment command, create the resource group with either Azure CLI or Azure PowerShell. Select the tabs in the following code section to choose between Azure PowerShell and Azure CLI. The CLI examples in this article are written for the Bash shell.

**New-AzResourceGroup `**

**-Name myResourceGroup `**

**-Location "Central US"**

## Deploy template

To deploy the template, use either Azure CLI or Azure PowerShell. Use the resource group you created. Give a name to the deployment so you can easily identify it in the deployment history. For convenience, also create a variable that stores the path to the template file. This variable makes it easier for you to run the deployment commands because you don't have to retype the path every time you deploy.

**$templateFile = "{provide-the-path-to-the-template-file}"**

**New-AzResourceGroupDeployment `**

**-Name blanktemplate `**

**-ResourceGroupName myResourceGroup `**

**-TemplateFile $templateFile**

The deployment command returns results. Look for ProvisioningState to see whether the deployment succeeded.

**Click on Deployment in portal .U will see Blank Template**

**We can see all the deployments / templates in Resource Group, Deployments**

Create a Template for creating storage account

PS C:\WINDOWS\system32> Connect-AzAccount

Account SubscriptionName TenantId

------- ---------------- --------

anamika\_sawhney@rediffmail.com Visual Studio Enterprise Subscription 092265d7-46a6-...

PS C:\WINDOWS\system32> New-AzResourceGroup `

-Name myResourceGroup `

-Location "Central US"

ResourceGroupName : myResourceGroup

Location : centralus

ProvisioningState : Succeeded

Tags :

ResourceId : /subscriptions/49a4d804-0cd0-44b2-89e5-fb1f592a927e/resourceGroups

/myResourceGroup

PS C:\WINDOWS\system32> $templatefile="E:\ARM\createstorage.json"

PS C:\WINDOWS\system32> > New-AzResourceGroupDeployment -Name BlankTemplate -ResourceGroupName myResourceGroup -TemplateFile $templatefile

(

Createstoragewith parameter

PS C:\WINDOWS\system32> $templatefile="E:\ARM\createstoragewithparameter.json"

PS C:\WINDOWS\system32> New-AzResourceGroupDeployment -Name StorageTemplate -ResourceGroupName myResourceGroup -TemplateFile $templatefile

cmdlet New-AzResourceGroupDeployment at command pipeline position 1

Supply values for the following parameters:

(Type !? for Help.)

storageName: anamikademo

Quick start Templates

<https://azure.microsoft.com/en-us/resources/templates/>

**New**-**AzResourceGroup** -**Name** <resource-group-name> -**Location** <resource-group-location> *#use this command when you need to create a new resource group for your deployment*  
**New**-**AzResourceGroupDeployment** -**ResourceGroupName** <resource-group-name> -**TemplateUri** https://raw.githubusercontent.com/Azure/azure-quickstart-templates/master/101-storage-blob-container/azuredeploy.json

**New**-**AzResourceGroupDeployment** -**ResourceGroupName** <resource-group-name> -**TemplateUri** https://raw.githubusercontent.com/Azure/azure-quickstart-templates/master/101-storage-blob-container/azuredeploy.json

PS C:\WINDOWS\system32> New-AzResourceGroupDeployment -ResourceGroupName myresourcegroup -TemplateUri https://raw.githubusercontent.com/Azure/azure-quickstart-templates/master/101-storage-blob-container/azuredeploy.json

cmdlet New-AzResourceGroupDeployment at command pipeline position 1

Supply values for the following parameters:

(Type !? for Help.)

storageAccountName: aaa123456

OR COPY ON UR MACHINE

PS C:\WINDOWS\system32> New-AzResourceGroupDeployment -Name StorageTemplatewithcontainer -ResourceGroupName myResourceGroup -TemplateFile $templatefile

cmdlet New-AzResourceGroupDeployment at command pipeline position 1

Supply values for the following parameters:

(Type !? for Help.)

storageAccountName: anamika123

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/quickstart-create-templates-use-visual-studio-code?tabs=CLI>

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/overview>