Exercise 1

Lab 03b - Manage Azure resources by Using ARM Templates

Student lab manual

Lab scenario

Now that you explored the basic Azure administration capabilities associated with provisioning resources and organizing them based on resource groups by using the Azure portal, you need to carry out the equivalent task by using Azure Resource Manager templates.

Objectives

In this lab, you will:

- Task 1: Review an ARM template for deployment of an Azure managed disk
- Task 2: Create an Azure managed disk by using an ARM template
- Task 3: Review the ARM template-based deployment of the managed disk

Estimated timing: 20 minutes

Instructions

Exercise 1

Task 1: Review an ARM template for deployment of an Azure managed disk

In this task, you will create an Azure disk resource by using an Azure Resource Manager template.

- 1. Sign in to the **Azure portal**.
- 2. In the Azure portal, search for and select **Resource groups**.
- 3. In the list of resource groups, click az104-03a-rg1.
- On the az104-03a-rg1 resource group blade, in the Settings section, click Deployments.
- 5. On the az104-03a-rg1 Deployments blade, click the first entry in the list of deployments.
- 6. On the Microsoft.ManagedDisk-XXXXXXXXX | Overview blade, click Template.
 - Note: Review the content of the template and note that you have the option to **Download** it to the local computer, Add to library, or **Deploy** it again.
- 7. Click **Download** and save the compressed file containing the template and parameters files to the **Downloads** folder on your lab computer.
- 8. On the Microsoft.ManagedDisk-XXXXXXXXX | Template blade, click Inputs.
- 9. Note the value of the **location** parameter. You will need it in the next task.
- 10. Extract the content of the downloaded file into the **Downloads** folder on your lab computer.
 - Note: These files are also available as \Allfiles\Labs\03\az104-03b-md-template.json and \Allfiles\Labs\03\az104-03b-md-template.json

11. Close all **File Explorer** windows.

Task 2: Create an Azure managed disk by using an ARM template

- 1. In the Azure portal, search for and select **Deploy a custom template**.
- 2. Click Template deployment (deploy using custom templates) found under the Marketplace group.
- 3. On the Custom deployment blade, click Build your own template in the editor.
- 4. On the **Edit template** blade, click **Load file** and upload the **template.json** file you downloaded in the previous task.
- 5. Within the editor pane, remove the following lines:

```
₽ Copy
  "sourceResourceId": {
      "type": "String"
  },
  "sourceUri": {
      "type": "String"
 },
  "osType": {
      "type": "String"
  },
                                                                                                     隺 Copy
Code
  "hyperVGeneration": {
      "defaultValue": "V1",
      "type": "String"
  },
Code
                                                                                                     ℃ Copy
  "osType": "[parameters('osType')]",
 Note: These parameters are removed since they are not applicable to the current deployment. In particular,
   sourceResourceId, sourceUri, osType, and hyperVGeneration parameters are applicable to creating an Azure disk from
   an existing VHD file.
```

- 6. Save the changes.
- 7. Back on the **Custom deployment** blade, click **Edit parameters**.
- 8. On the **Edit parameters** blade, click **Load file** and upload the **parameters.json** file you downloaded in the previous task, and **Save** the changes.
- 9. Back on the **Custom deployment** blade, specify the following settings:

Setting	Value
Subscription	the name of the Azure subscription you are using in this lab
Resource Group	the name of a new resource group az104-03b-rg1
Region	the name of any Azure region available in the subscription you are using in this lab
Disk Name	az104-03b-disk1

Setting	Value
Location	the value of the location parameter you noted in the previous task
Sku	Standard_LRS
Disk Size Gb	32
Create Option	empty
Disk Encryption Set Type	EncryptionAtRestWithPlatformKey
Network Access Policy	AllowAll

- 10. Select **Review + Create** and then select **Create**.
- 11. Verify that the deployment completed successfully.

Task 3: Review the ARM template-based deployment of the managed disk

- 1. In the Azure portal, search for and select **Resource groups**.
- 2. In the list of resource groups, click az104-03b-rg1.
- 3. On the az104-03b-rg1 resource group blade, in the Settings section, click Deployments.
- 4. From the **az104-03b-rg1 Deployments** blade, click the first entry in the list of deployments and review the content of the **Input** and **Template** blades.

Clean up resources

Note: Do not delete resources you deployed in this lab. You will reference them in the next lab of this module.

Review

In this lab, you have:

- Reviewed an ARM template for deployment of an Azure managed disk
- Created an Azure managed disk by using an ARM template
- Reviewed the ARM template-based deployment of the managed disk