

Lab-Manage Azure resources by Using ARM Templates

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

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**.
4. 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 and then click **View template**.

Note: Review the content of the template and note that you have the option to download it to the local computer, add it to the library, and re-deploy it.

6. Click **Download** and save the compressed file containing the template and parameters files to the **Downloads** folder on your lab computer.
7. Extract the content of the downloaded file into the **Downloads** folder on your lab computer.

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

1. In the Azure portal, search for and select **Template deployment (deploy using custom templates)**.
2. On the **Custom deployment** blade, click **Build your own template in the editor**.
3. On the **Edit template** blade, click **Load file** and upload the template file you downloaded in the previous step.
4. Within the editor pane, remove the following lines:

```
"sourceResourceId": {  
  "type": "String"  
},  
"sourceUri": {  
  "type": "String"  
},  
"osType": {  
  "type": "String"  
},
```

```
},  
"hyperVGeneration": {  
  "defaultValue": "V1",  
  "type": "String"  
}
```

```
"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.

5. In addition, remove the trailing comma from the following line:

```
"diskSizeGB": "[parameters('diskSizeGb')]",
```

Note: This is necessary to account for the syntax rules of JSON-based ARM templates.

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 file **az104-03b-md-parameters.json** 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
Location	the name of any Azure region available in the subscription you are using in this lab
Disk Name	az104-03b-disk1
Location	accept the default value
Sku	Standard_LRS
Disk Size Gb	32
Create Option	empty

10. Select the checkbox **I agree to the terms and conditions stated above** and click **Purchase**.
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.

Neeraj-AZ-104

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