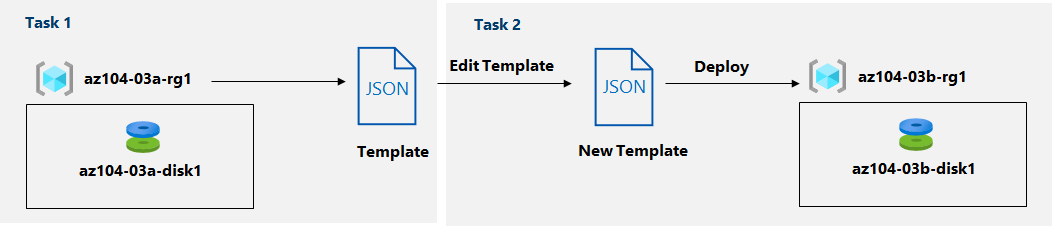
Lab URL:

<https://microsoftlearning.github.io/AZ-104-MicrosoftAzureAdministrator/Instructions/Labs/LAB_03b-Manage_Azure_Resources_by_Using_ARM_Templates.html>

Architecture diagram

[](https://microsoftlearning.github.io/AZ-104-MicrosoftAzureAdministrator/Instructions/media/lab03b.png)

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**](https://portal.azure.com/).
2. In the Azure portal, search for and select **Resource groups**.
3. In the list of resource groups, click **az104-03a-rg1**.

Graphical user interface, text, application, email

Description automatically generated

1. On the **az104-03a-rg1** resource group blade, in the **Settings** section, click **Deployments**.

Graphical user interface, application

Description automatically generated

1. On the **az104-03a-rg1 - Deployments** blade, click the first entry in the list of deployments.

Graphical user interface, text, application, chat or text message, email

Description automatically generated

1. 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.

Graphical user interface, text, application

Description automatically generated

1. Click **Download** and save the compressed file containing the template and parameters files to the **Downloads** folder on your lab computer.

Graphical user interface, text

Description automatically generated

1. On the **Microsoft.ManagedDisk-*XXXXXXXXX* | Template** blade, click **Inputs**.
2. Note the value of the **location** parameter. You will need it in the next task.
3. 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-parameters.json**

Graphical user interface, application

Description automatically generated

1. 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**.

Graphical user interface, text, application

Description automatically generated

1. Click **Template deployment (deploy using custom templates)** found under the **Marketplace** group.
2. On the **Custom deployment** blade, click **Build your own template in the editor**.

Graphical user interface, text, application, email

Description automatically generated

1. On the **Edit template** blade, click **Load file** and upload the **template.json** file you downloaded in the previous task.
2. Within the editor pane, remove the following lines:

CodeCopy

"sourceResourceId": {

"type": "String"

},

"sourceUri": {

"type": "String"

},

"osType": {

"type": "String"

},

CodeCopy

"hyperVGeneration": {

"defaultValue": "V1",

"type": "String"

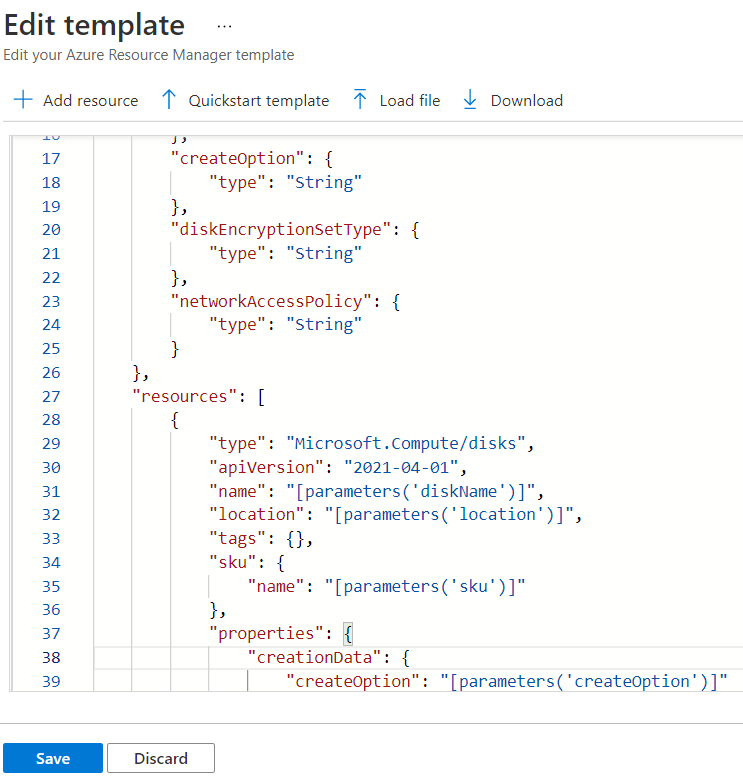
},

CodeCopy

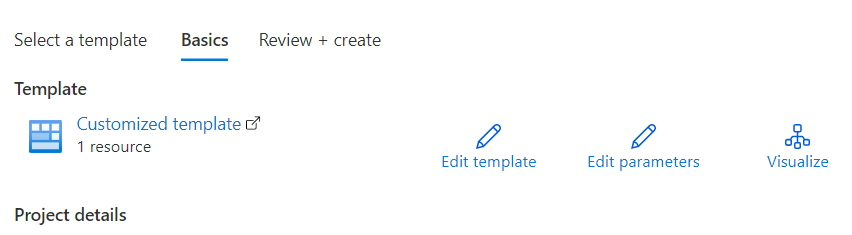
"osType": "[parameters('osType')]",

**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.

1. **Save** the changes.



1. Back on the **Custom deployment** blade, click **Edit parameters**.



1. On the **Edit parameters** blade, click **Load file** and upload the **parameters.json** file you downloaded in the previous task, and **Save** the changes.

Graphical user interface, text, application, email

Description automatically generated

1. 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** |
| 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** |

Graphical user interface

Description automatically generated

1. Select **Review + Create** and then select **Create**.
2. 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**.

Graphical user interface, text, application, email

Description automatically generated

1. 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.

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

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