**Lab 03a - Manage Azure resources by Using the Azure Portal**

**Student lab manual**

**Lab scenario**

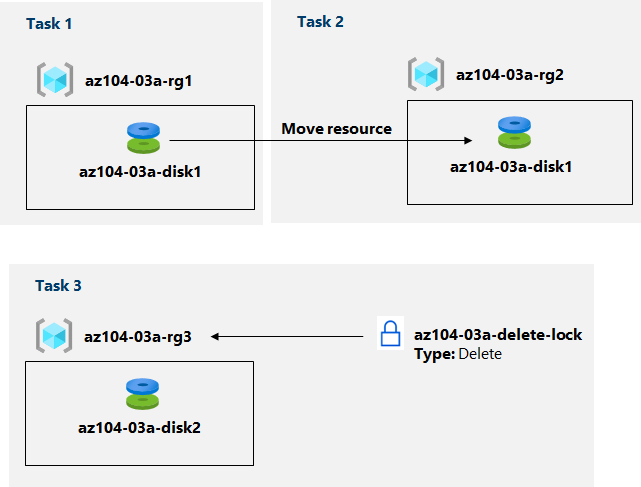
You need to explore the basic Azure administration capabilities associated with provisioning resources and organizing them based on resource groups, including moving resources between resource groups. You also want to explore options for protecting disk resources from being accidentally deleted, while still allowing for modifying their performance characteristics and size.

**Objectives**

In this lab, we will:

* Task 1: Create resource groups and deploy resources to resource groups
* Task 2: Move resources between resource groups
* Task 3: Implement and test resource locks

**Architecture diagram**

[](https://github.com/MicrosoftLearning/AZ-104-MicrosoftAzureAdministrator/blob/master/Instructions/media/lab03a.png)

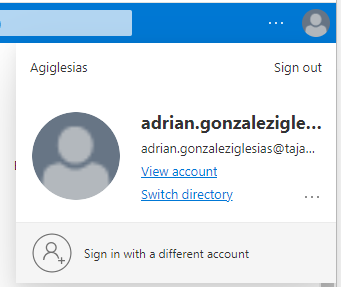
**Instructions**

**Exercise 1**

**Task 1: Create resource groups and deploy resources to resource groups**

In this task, you will use the Azure portal to create resource groups and create a disk in the resource group.

1. Sign in to the [Azure portal](https://portal.azure.com/).



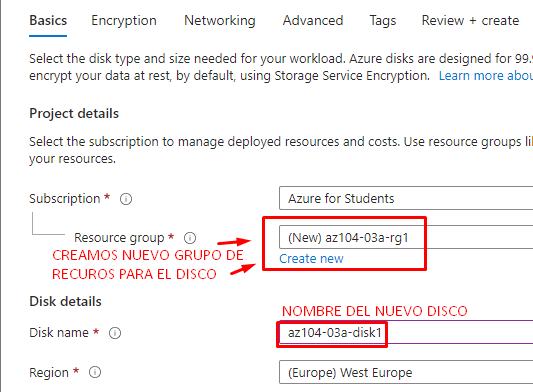
1. In the Azure portal, search for and select **Disks**, click **+ Add, + Create, or + New**, and specify the following settings:

| **Setting** | **Value** |
| --- | --- |
| Subscription | the name of the Azure subscription where you created the resource group |
| Resource Group | the name of a new resource group **az104-03a-rg1** |
| Disk name | **az104-03a-disk1** |
| Region | the name of the Azure region where you created the resource group |
| Availability zone | **None** |
| Source type | **None** |

1. **Note**: When creating a resource, you have the option of creating a new resource group or using an existing one.

Interfaz de usuario gráfica, Texto, Aplicación, Word

Descripción generada automáticamente



Flecha

Descripción generada automáticamente con confianza media

1. Change the disk type and size to **Standard HDD** and **32 GiB**, respectively.



Tabla

Descripción generada automáticamente con confianza baja

1. Click **Review + Create** and then click **Create**.

Diagrama

Descripción generada automáticamente con confianza media

**Note**: Wait until the disk is created. This should take less than a minute.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

**Task 2: Move resources between resource groups**

In this task, we will move the disk resource you created in the previous task to a new resource group.

1. Search for and select **Resource groups**.

Interfaz de usuario gráfica, Aplicación, Word

Descripción generada automáticamente

1. On the **Resource groups** blade, click the entry representing the **az104-03a-rg1** resource group you created in the previous task.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. From the **Overview** blade of the resource group, in the list of resource group resources, select the entry representing the newly created disk, click **Move** in the toolbar, and, in the drop-down list, select **Move to another resource group**.

**Note**: This method allows you to move multiple resources at the same time.

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Below the **Resource group** text box, click **Create new** then type **az104-03a-rg2** in the text box. On the Review tab, select the checkbox **I understand that tools and scripts associated with moved resources will not work until I update them to use new resource IDs**, and click **Move**.

**Note**: Do not wait for the move to complete but instead proceed to the next task. The move might take about 10 minutes. You can determine that the operation was completed by monitoring activity log entries of the source or target resource group. Revisit this step once you complete the next task.

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

**Comprobación:**

Imagen de la pantalla de un celular de un mensaje en letras blancas

Descripción generada automáticamente con confianza baja

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

**Task 3: Implement resource locks**

In this task, you will apply a resource lock to an Azure resource group containing a disk resource.

1. In the Azure portal, search for and select **Disks**, click **+ Add, + Create, or + New**, and specify the following settings:

| **Setting** | **Value** |
| --- | --- |
| Subscription | the name of the subscription you are using in this lab |
| Resource Group | click **create new** resource group and name it **az104-03a-rg3** |
| Disk name | **az104-03a-disk2** |
| Region | the name of the Azure region where you created the other resource groups in this lab |
| Availability zone | **None** |
| Source type | **None** |

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente

1. Set the disk type and size to **Standard HDD** and **32 GiB**, respectively.

Interfaz de usuario gráfica, Tabla

Descripción generada automáticamente con confianza media

1. Click **Review + Create** and then click **Create**.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Click Go to resouce.

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

1. On the **az104-03a-rg3** resource group blade, click **Locks** then **+ Add** and specify the following settings:

| **Setting** | **Value** |
| --- | --- |
| Lock name | **az104-03a-delete-lock** |
| Lock type | **Delete** |

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Click **OK**
2. On the **az104-03a-rg3** resource group blade, click **Overview**, in the list of resource group resources, select the entry representing the disk you created earlier in this task, and click **Delete** in the toolbar.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. When prompted **Do you want to delete all the selected resources?**, in the **Confirm delete** text box, type **yes** and click **Delete**.
2. You should see an error message, notifying about the failed delete operation.

**Note**: As the error message states, this is expected due to the delete lock applied on the resource group level.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Navigate back to the list of resources of the **az104-03a-rg3** resource group and click the entry representing the **az104-03a-disk2** resource.
2. On the **az104-03a-disk2** blade, in the **Settings** section, click **Size + performance**, set the disk type and size to **Premium SSD** and **64 GiB**, respectively, and click **Resize** to apply the change. Verify that the change was successful.

**Note**: This is expected, since the resource group-level lock applies to delete operations only.

Interfaz de usuario gráfica

Descripción generada automáticamente

**Clean up resources**

**Note**: Do not delete resources you deployed in this lab. You will be using them in the next lab of this module. Remove only the resource lock you created in this lab.

1. Navigate to the **az104-03a-rg3** resource group blade, display its **Locks** blade, and remove the lock **az104-03a-delete-lock** by clicking the **Delete** link on the right-hand side of the **Delete** lock entry.

Interfaz de usuario gráfica, Texto, Aplicación, Chat o mensaje de texto

Descripción generada automáticamente

**Review**

In this lab, you have:

* Created resource groups and deployed resources to resource groups
* Moved resources between resource groups
* Implemented and tested resource locks