

**Lab Details**

1. In this lab, you will learn how to prevent users to accidently delete resources using Azure resource locks.
2. Duration: **45 minutes**

**Introduction**

**What are Azure resource locks?**

* Azure resource locks prevent users in an organization to accidently deleting or modifying critical resources.
* Azure locks are different from role-based access control in a way that using these locks you can apply restrictions across all users and roles.
* Users can apply locks on resource level, resource group level or subscription level.
* There are two types of locks available in Azure:
  + CanNotDelete: If this lock is applied to any of the resources, the user can still read or modify the resource but cannot delete it.
  + ReadOnly: As the name suggests, with this lock applied, a user can only read the resource without causing any modifications or deletions.
* In the Azure portal, these locks are called Delete and Read-only.

**Architecture Diagram**

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

**Task Details**

1. Sign in to Azure Portal
2. Deploying a Virtual Machine
3. Creating a Delete Lock
4. Creating a Read-Only Lock
5. Deleting the Locks
6. Validation Test
7. Deleting the Virtual Machine

# ****Lab Steps****

## ****Task 1: Sign in to Azure Portal****

1. Go to the Azure portal by using the URL [https://portal.azure.com](https://portal.azure.com/).
2. Sign in with your student **username** and **password** on the Azure portal.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

## ****Task 2: Deploying a Virtual Machine****

1. From the Azure portal menu or from the Home page, select **Create a resource**.

Diagrama

Descripción generada automáticamente con confianza media

1. In the **Categories**select **Compute**and then Click on **Create**under **Virtual Machine.**

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Fill out the **Create a Virtual Machine**basic details form with the following information

* Resource group: Select **RG1**
* Virtual Machine Name: Enter **WhizlabVM**

Escala de tiempo

Descripción generada automáticamente

* Image: Select **Ubuntu Server 20.04 LTS Gen1**
* Size: Click on **See all sizes** and select **B2s**

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Descripción generada automáticamente

* Authentication type: Select **Password**
* Username: Enter **Tajamar**
* Password: Enter**Scooby@1234567**
* Confirm Password: Enter **Scooby@1234567**

Diagrama

Descripción generada automáticamente

* Leave the other option as the default
* In Disk: Select **standard SSD (Locally-redundant Storage)**

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Now Click on **Review + create**
2. Click on **Create**

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

## ****Task 3: Creating a Delete Lock****

1. Click on the Virtual Machine you just created, and in the left panel click on **Locks**and then click **Add.**

Imagen que contiene Interfaz de usuario gráfica

Descripción generada automáticamente

1. Fill the form with the following details:

* Lock name: Enter **WhizDel**
* Lock Type: Select **Delete**

1. Click **OK.**

Interfaz de usuario gráfica, Sitio web

Descripción generada automáticamente

1. If you try to delete the Virtual Machine, you will get the following error:

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente

## ****Task 4: Creating a Read-Only Lock****

1. Now, we will create a **Read-only Lock** for the Resource Group.
2. Click on the Virtual Machine you created, and then on the left panel, click on **Locks**, and then on **Resource Group.**

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

1. Click on Add, and fill the following details in the form:

* Lock name: Enter **WhizRead**
* Lock type: Select **Read-only**

1. Click **OK.**

Interfaz de usuario gráfica, Aplicación, Sitio web

Descripción generada automáticamente

## ****Task 5: Deleting the locks****

1. Now, if you try to delete the Virtual Machine, you will get the following error:
2. Similar errors would be there if the user tries to modify the resources. This is because of the implemented locks on the resource and the resource group.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

1. Now, to delete the resources, click on the Virtual Machine created, and in the left panel click on **Locks.**
2. Now, Click on the **Resource Group.**
3. Click on the **Delete** option for both of the created locks.

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Descripción generada automáticamente

1. Both locks will get deleted successfully.

### **Do You Know?**

Users can choose from a wide range of VM sizes and configurations, including options for CPU, memory, storage, and networking capabilities, to meet their specific requirements. Azure VM supports both Windows and Linux operating systems, enabling users to run a diverse set of applications.

## ****Task 6: Deleting the Virtual Machine****

1. Now, go back to the Virtual Machine page where you could see your Virtual Machine created.
2. Check the box on the left side of the Virtual Machine.
3. On the upper right hand corner, click on the Delete option

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Descripción generada automáticamente

1. Enter yes, and click on **Delete.**

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

## ****Completion and Conclusions****

1. You have successfully signed into Azure Portal
2. You have successfully deployed a Virtual Machine
3. You have successfully created a Delete Lock
4. You have successfully  created a Read-Only Lock
5. You have successfully deleted all the locks
6. You have successfully deleted the resources