Icono

Descripción generada automáticamenteTRABAJAR CON ALMACENAMIENTO BLOB

**Lab Details**

1. In this lab we will go through various steps to create Azure Blob storage and store files in it.

**Introduction**

**What is Azure Blob Storage?**

* Azure Storage is the Azure platform's managed service for providing cloud storage. Azure Storage is composed of several core services and supporting features. It is highly available, secure, durable, scalable, and redundant.
* The word ‘Blob’ expands to a Binary Large Object. Blobs include images, text files, videos and audios.
* Azure Blob storage is Microsoft's object storage solution for the cloud and it is optimized for storing massive amounts of unstructured data.
* Unstructured data is data that doesn't adhere to a particular data model or definition, such as text or binary data.
* With Azure Blob Storage, the files (photos, videos, training documents, etc.), which are known as blobs, are put in containers which function similar to directories. These are then linked to the storage account.
* One of the big advantages for businesses is that Azure Blob storage allows them to collect all of their content assets in one place. These will then be available all across their different departments and internationally. The speed, scalability, ease of access, and security make such cloud storage very attractive for all mid-sized and large organizations.

**Architecture Diagram**

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**Task Details**

1. Sign into Azure Portal.
2. Create a Storage Account.
3. Create a Container.
4. Upload a Blob object.
5. Change access level.
6. Delete the resources.

# **Lab Steps**

## **Task 1: Sign into Azure Portal**

1. Go to the Azure portal by using URL [https://portal.azure.com](https://portal.azure.com/).
   * **Note**: It is recommended to use incognito mode to avoid Azure portal cache related issues.
2. Sign in with your given username and password on Azure portal.

Captura de pantalla de computadora

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## **Task 2: Create a Storage Account**

1. At the top of the Azure portal, in the search box, search **Storage account**. Select **Storage accounts** in the search results.

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1. In **Storage accounts**, select **+ Create**.

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1. In **Create a storage account** page, enter or select the following information in the **Basics** tab:

* Resource group: Create New: **RG-003**
* Instance details:
  + Storage account name : Enter mystorageacc[your name]
  + Region: Select **(US) Central US**
  + Performance: Select **Standard**
  + Redundancy: Select **Locally-redundant storage (LRS)**

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1. Now go to the **Advanced**tab and enable **Allow enabling anonymous access on individual containers.**Enabling this will allow you to modify a container's anonymous access setting to enable anonymous access to the data in that container. You will also be able to make changes in the blobs.
2. After this, leave all the settings as default and click on **Review + create**. Then, click on **Create**. Your deployment will be completed after a few minutes.

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## **Task 3: Create a Container**

1. In the Azure portal, go to the Storage account you created earlier. On the overview page of your storage account, in the **Data storage** section, select **Containers**.
2. Click on **+ Container**.

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1. Now, on the **New Container** page, enter or select the following information:

* Name: Enter mycontainer25
* Public access level : Select **Private (no anonymous access)**
* Click on **Create**.

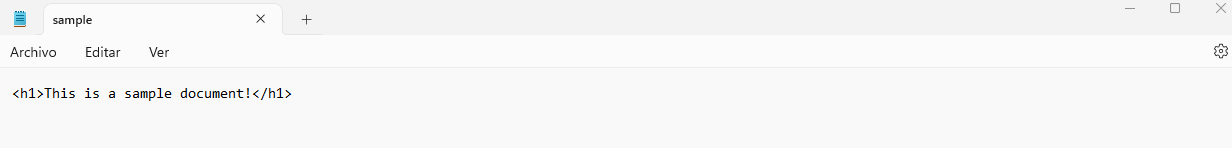
Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

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1. Your container will be created and displayed in the containers section.

## **Task 4: Upload a Blob object**

1. First, let us create a simple HTML file. Open **Notepad** on your local computer and enter <h1>This is a sample document!</h1>.
2. Then, click on **Save as** and enter sample.htmland click on **Save**.



1. Now, if you try to open the sample.html file, you will see the page displaying the contents in it.

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1. Now, go to the container you created. Here, in the overview page of your container, click on **Upload**.
2. On the **Upload blob** page, browse the file you created previously named **sample.html** on your local computer and select the file. Then, click on **Upload**.

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1. You can now see that you have your file in place.

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1. Now, click on the file which is uploaded to your container. You can see on the **overview** page, there are various properties shown. You can go ahead and click on the **Edit** section and, also, edit the file here itself.

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1. You can make some changes in your file if you want and then click on **Save**.
2. Now, go to the **overview** section and copy the **URL**. Then, paste it on your browser.
3. You can see that we are getting an error message of a resource not found. And the reason for this is, when you go to a new tab and try to access this blob, you are trying to access this blob as an anonymous user. And by default, anonymous access is not allowed for the blobs in your container.

Interfaz de usuario gráfica

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1. So, let’s change the access level of our container.

## **Task 5: Change access level**

As we saw in the previous step, that we were not able to access the resource as an anonymous user. So, in order to access the resource we need to change the access level to **Blob (anonymous read access for blobs only).**

1. Go to the **overview** section of your container and click on **Change access level**.

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1. Now, select the following information on the **Change access level** section:

* Public access level: Select **Blob (anonymous read access for blobs only)**
* Click on **OK**.

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1. Now, go back to your browser, and refresh the page. You will now be able to see the contents of the file on the web page displayed.
2. So, finally you accessed the blob within your container.

Interfaz de usuario gráfica

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### **Do you know?**

Azure Blob Storage offers a powerful feature called lifecycle management, allowing you to automatically transition and manage the lifecycle of your data by moving it between different storage tiers, archiving it, or even deleting it based on customizable rules, optimizing costs and storage efficiency.

## **Task 6: Deleting the resources**

1. In the search box at the top of the Azure portal, enter **Resource Groups**. Select Resource groups from the results.
2. Click on the name of the resource group.  
   Select all the resources in that Resource group by clicking on the **Name checkbox**.

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1. Go to the three dots on right and click **Delete**.
2. Now type Delete to confirm deletion.
3. Confirm Deletion.  
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# **Completion and Conclusions**

1. You have successfully signed into Azure Portal.
2. You have successfully created a Storage Account.
3. You have successfully created a Container.
4. You have successfully uploaded a Blob object.
5. You have successfully changed the access level.
6. You have successfully deleted the resources.