

Home / Azure / Guided Lab / Working with Blob Storage

# Working with Blob Storage

Level: Fundamental

Azure Storage Account    Azure



0h 18m 35s left



End Lab

Open Console

Validation

## Lab Credentials

User Name ⓘ

labuser\_80425\_84033750@instructorwhizlabs.onmicrosoft.com



Password ⓘ

3fN&J\*q5\$8!Bjt2X0gO%



Resource Group ⓘ

rg\_eastus\_80425\_1\_170568337031






## Lab Resources

No Lab Resources Found

## Support Documents

No Support Documents Found

## Need help?

-  How to use Hands on Lab
-  Troubleshooting Lab
-  FAQs

[Submit Feedback](#)[Share](#)[Lab Overview](#)[Lab Steps](#)[Lab Validation](#) Azure Administrator Associate Storage, Containers

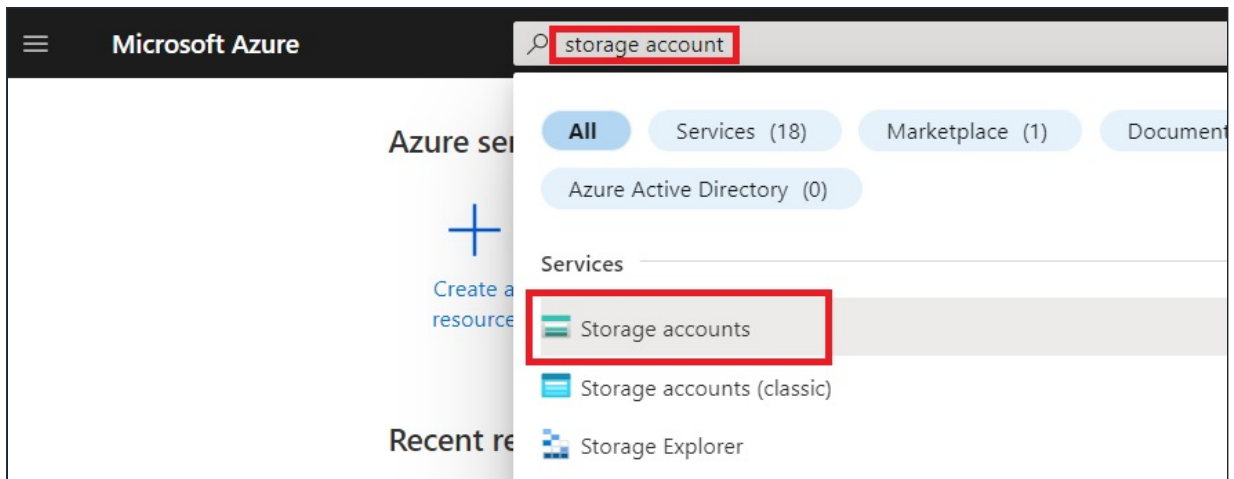
# Lab Steps

## Task 1: Sign in to Azure Portal

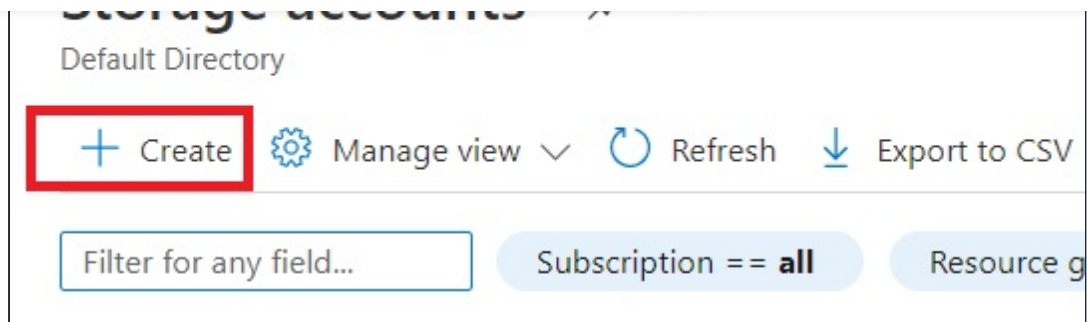
- Go to the Azure portal by clicking on the **Open Console** button or by using URL <https://portal.azure.com>.
  - Note:** It is recommended to use incognito mode to avoid Azure portal cache related issues.
- If it automatically logs into any other azure account, please logout of it and clear cache.
- Sign in with your given **username** and **password** on Azure portal.
- If login is not working. Click on **End Lab** and start the lab again.

## Task 2: Create a Storage Account

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



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



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

- Resource group : Select **rg\_eastus\_XXXXX**
- Instance details :
  - Storage account name : Enter ***mystorageacc[your name]***
  - Region : Select **(US) Central US**
  - Performance : Select **Standard**
  - Redundancy : Select **Locally-redundant storage (LRS)**

**Create a storage account** ...

**Basics** | Advanced | Networking | Data protection | Encryption | Tags | Review + create

Resource group \* [REDACTED] Create new

**Instance details**

If you need to create a legacy storage account type, please click [here](#).

Storage account name ⓘ \*

Region ⓘ \*

Performance ⓘ \* ☒ **Standard:** Recommended for most scenarios (general-purpose v2 account)  
☐ **Premium:** Recommended for scenarios that require low latency.

Redundancy ⓘ \*

4. 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.

[Home](#) > [Storage accounts](#) >

**Create a storage account** ...

**Basics** | **Advanced** | Networking | Data protection | Encryption | Tags | Review

ⓘ Certain options have been disabled by default due to the combination of storage account performance, redundancy, and region.

**Security**

Configure security settings that impact your storage account.

Require secure transfer for REST API operations ⓘ ☒

**Allow enabling anonymous access on individual containers ⓘ** ☒

Enable storage account key access ⓘ ☒

Default to Microsoft Entra authorization in the Azure portal ⓘ ☐

Minimum TLS version ⓘ

Permitted scope for conv operations

[Review](#) [< Previous](#) [Next : Networking >](#)

5. 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.

## ✓ Your deployment is complete



Deployment name: mystorageacc2325\_1643525168272  
Subscription: [Pay-As-You-Go](#)  
Resource group: [WhizResourceGroup\\_ananya](#)

Start time: 1/30/2022, 12:16:18 PM  
Correlation ID: fd2e00cf-cdf0-4ff4-afc2-52d6e1998b02

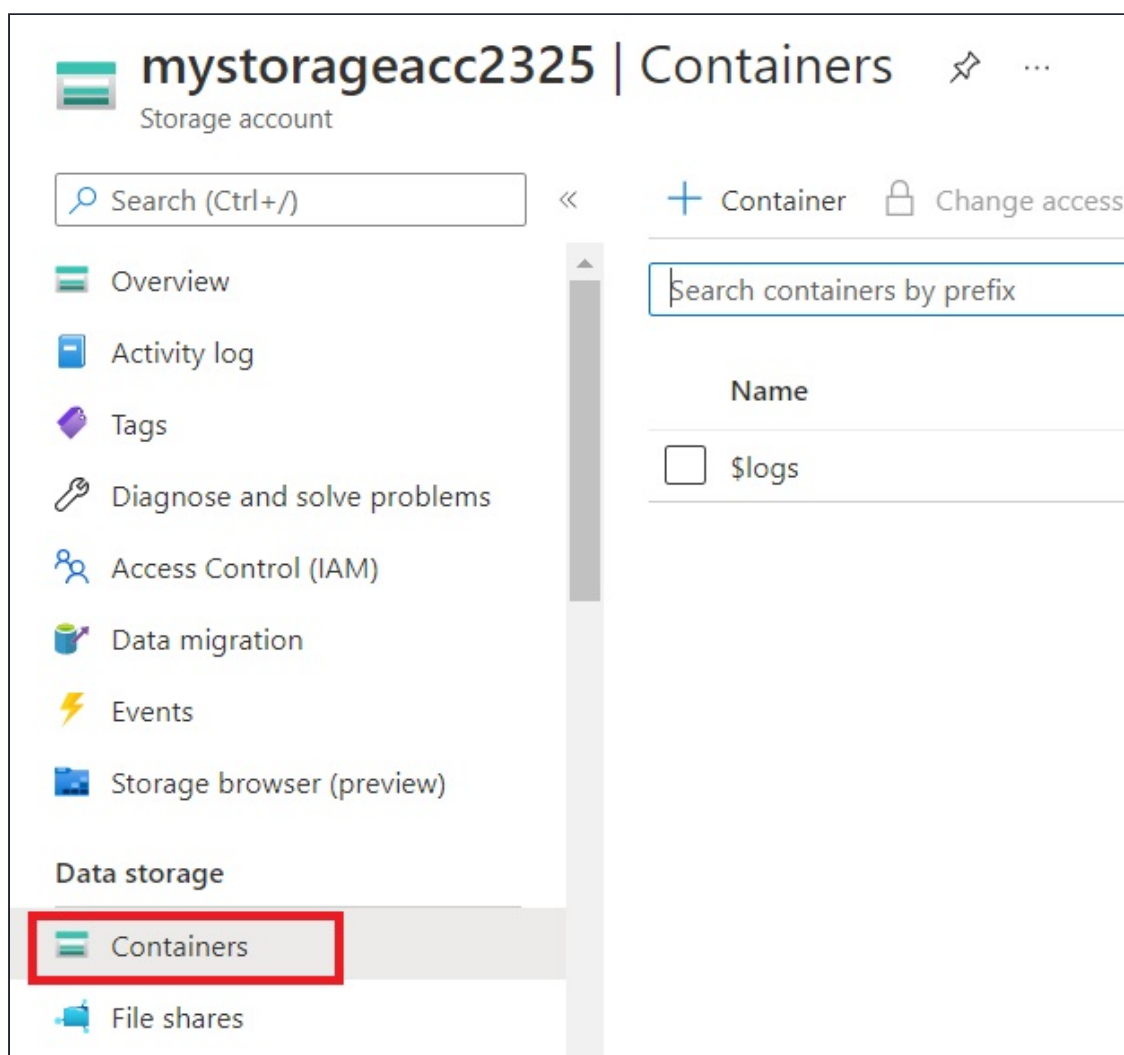
✓ Deployment details [\(Download\)](#)

^ Next steps

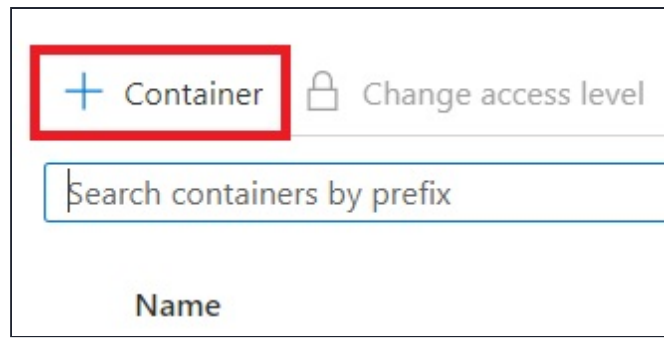
[Go to resource](#)

### 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**.



The screenshot shows the Azure Storage Explorer interface. At the top, there is a header bar with a blue plus icon and the text 'Container' highlighted by a red rectangular box. To the right of this is a lock icon and the text 'Change access level'. Below the header bar is a search bar with the placeholder text 'Search containers by prefix'. Below the search bar is a table with a single column header 'Name'.

3. 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**.

New container

Name \*

mycontainer25

Public access level ⓘ

Private (no anonymous access)

▼

Advanced

Create

Discard

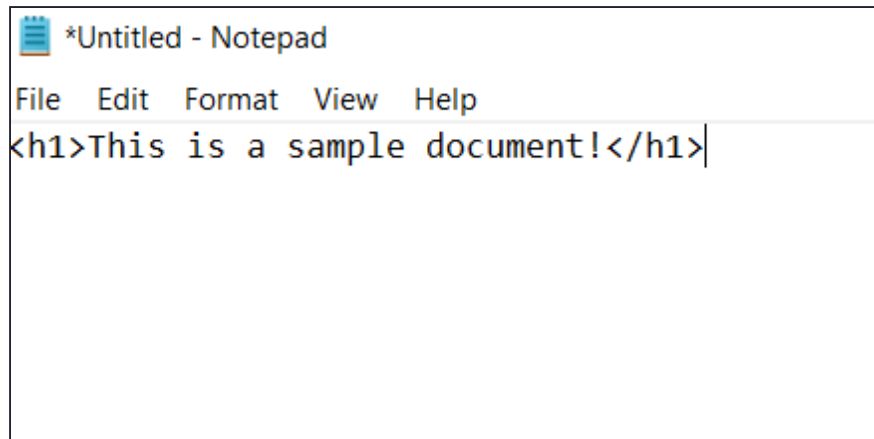
4. Your container will be created and displayed in the containers section.

<input type="checkbox"/>	mycontainer25	1/30/2022, 1:03:23 PM	Private
--------------------------	---------------	-----------------------	---------

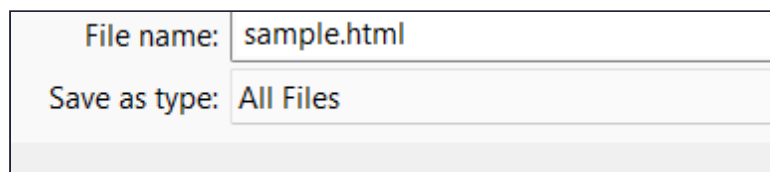
Task 4: Upload a Blob object



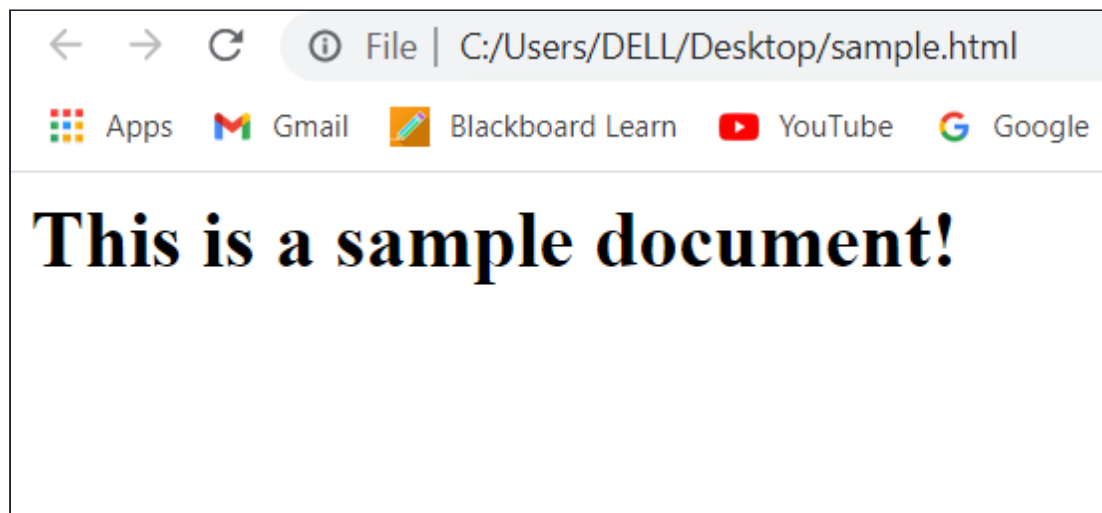
1. First, let us create a simple HTML file. Open **Notepad** on your local computer and enter **`<h1>This is a sample document!</h1>`**.



2. Then , click on **Save as** and enter ***sample.html*** and click on **Save**.

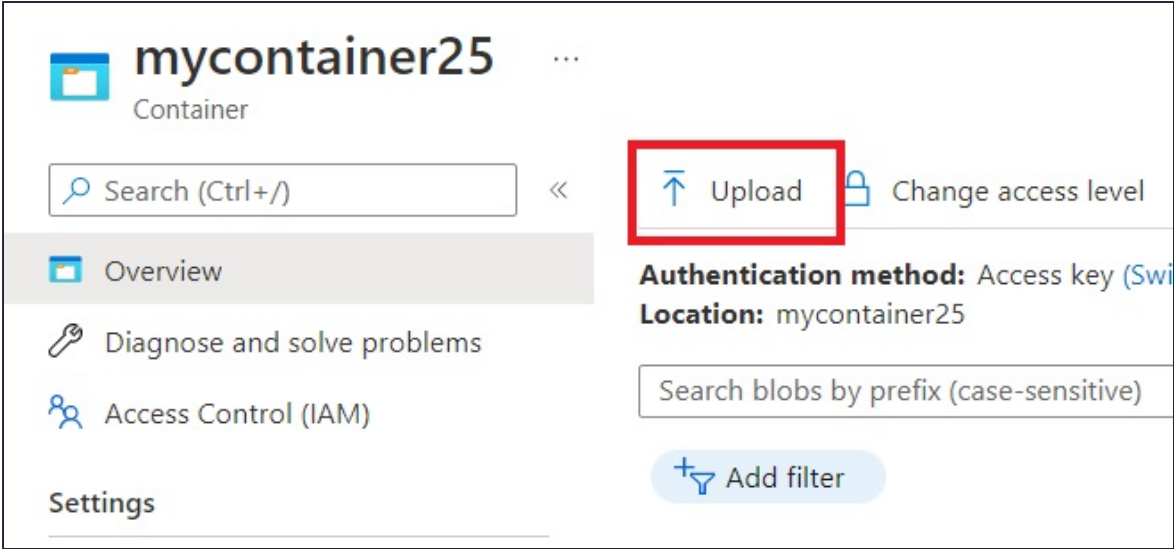


3. Now, if you try to open the sample.html file, you will see the page displaying the contents in it.

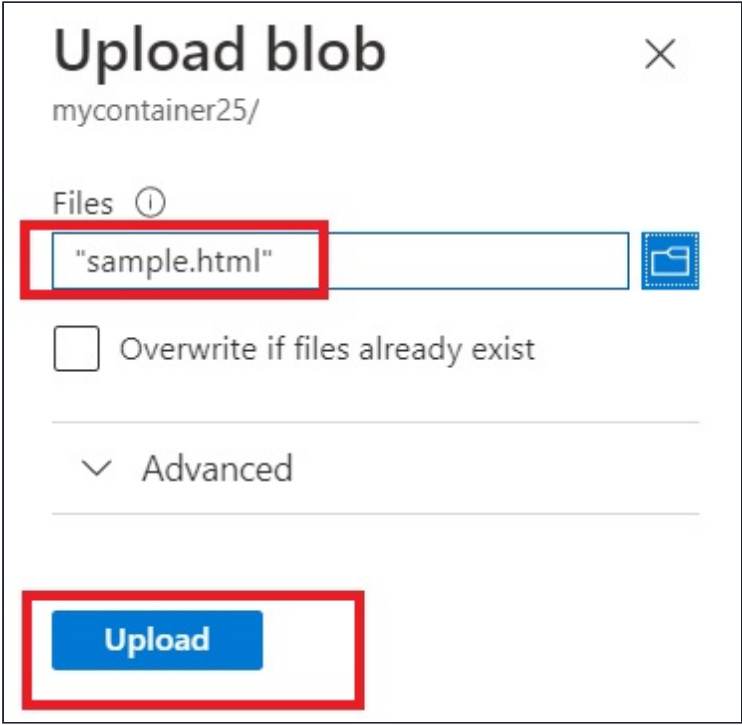


4. Now, go to the container you created. Here, in the overview page of your container, click on **Upload**.





5. 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**.



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

Name	Modified	Access tier	Archive status	Blob type
<input type="checkbox"/> sample.html	1/30/2022, 1:24:43 PM	Hot (Inferred)		Block blob

7. 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.

The screenshot shows the Azure Blob Storage interface for a file named 'sample.html'. The 'Edit' tab is selected and highlighted with a red box. Below the tabs, the 'Properties' section is visible, showing details such as URL, Last Modified, Creation Time, Version ID, Type (Block blob), Size (35 B), Access Tier (Hot (Inferred)), and Access Tier Last Modified (N/A).

**sample.html** ...

Blob

Save Discard Download Refresh Delete Change

**Overview** Versions Snapshots **Edit** Generate SAS

Properties

URL <https://mystorageacc23...>

LAST MODIFIED 1/30/2022, 1:24:43 PM

CREATION TIME 1/30/2022, 1:24:43 PM

VERSION ID -

TYPE Block blob

SIZE 35 B

ACCESS TIER Hot (Inferred)

ACCESS TIER LAST MODIFIED N/A

8. You can make some changes in your file if you want and then click on **Save**.

The screenshot shows the Azure Blob Storage interface for the 'sample.html' file in Edit mode. The 'Edit' tab is selected. The file content is displayed in a text editor, showing two lines of HTML code: `<h1>Hello, this is a sample document!</h1>` and `<h2>I am XYZ</h2>`. The 'Save' button in the top toolbar is highlighted with a red box.

**sample.html** ...

Blob

Save Discard Download Refresh Delete

Overview Versions Snapshots **Edit** Generate SAS

```
1 <h1>Hello, this is a sample document!</h1>
2 <h2>I am XYZ</h2>
3
```

9. Now, go to the **overview** section and copy the **URL**. Then, paste it on your browser.

The screenshot shows the Azure Blob Storage interface for the 'sample.html' file in Overview mode. The 'Overview' tab is selected. The 'Properties' section is visible, showing the URL and Last Modified date. The URL field is highlighted with a red box.

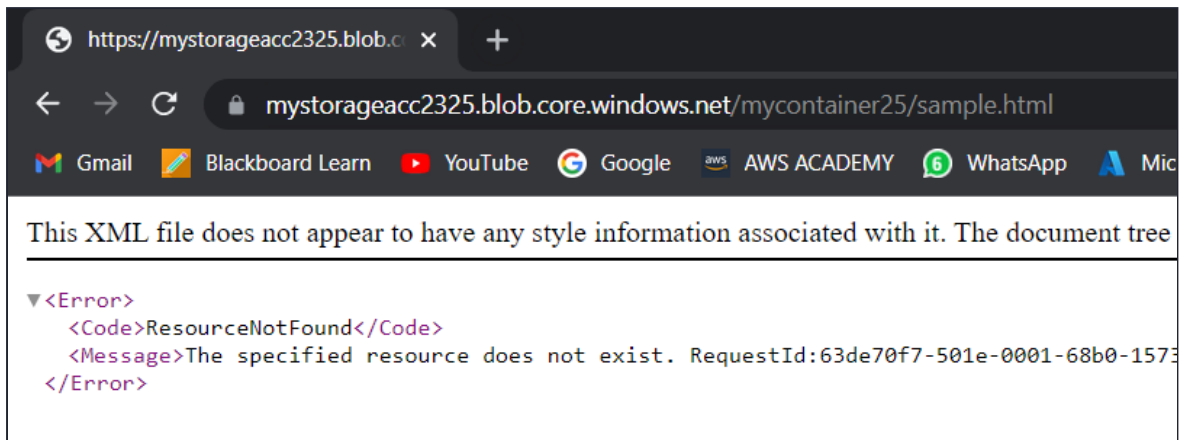
**Overview** Versions Snapshots Edit Generate SAS

Properties

URL <https://mystorageacc23...>

LAST MODIFIED 1/30/2022, 1:34:22 PM

10. 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.

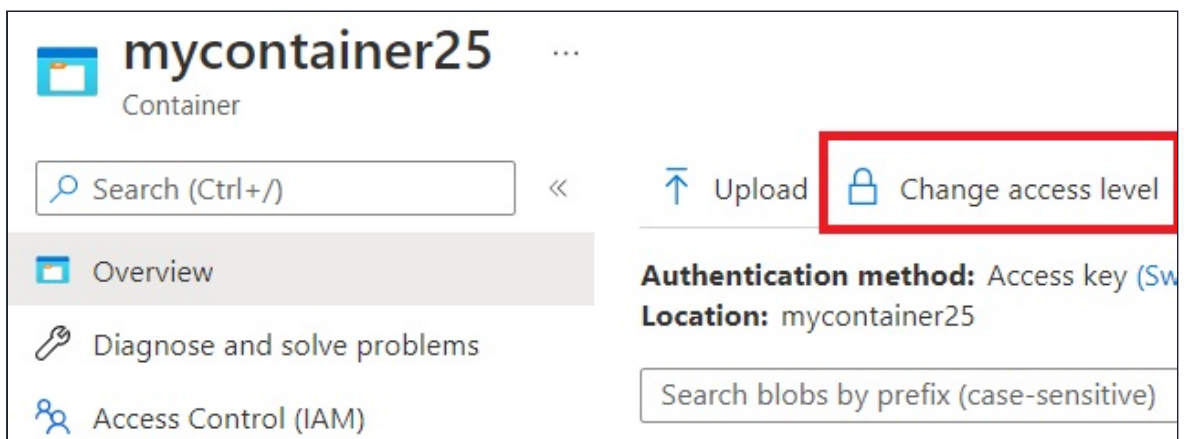


11. So, let's change the access level of our container.

## 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**.



2. 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**.

### Change access level

Change the access level of container 'mycontainer25'.

Public access level ⓘ

Blob (anonymous read access for blobs only) ▾

Private (no anonymous access)

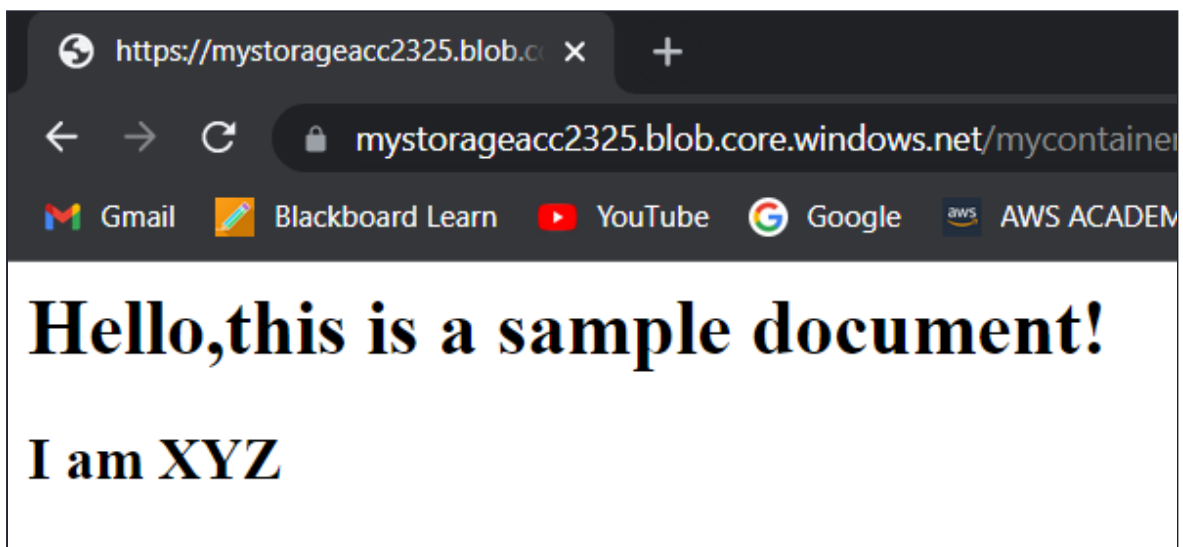
**Blob (anonymous read access for blobs only)**

Container (anonymous read access for containers and blobs)

**OK**

Cancel

3. 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.



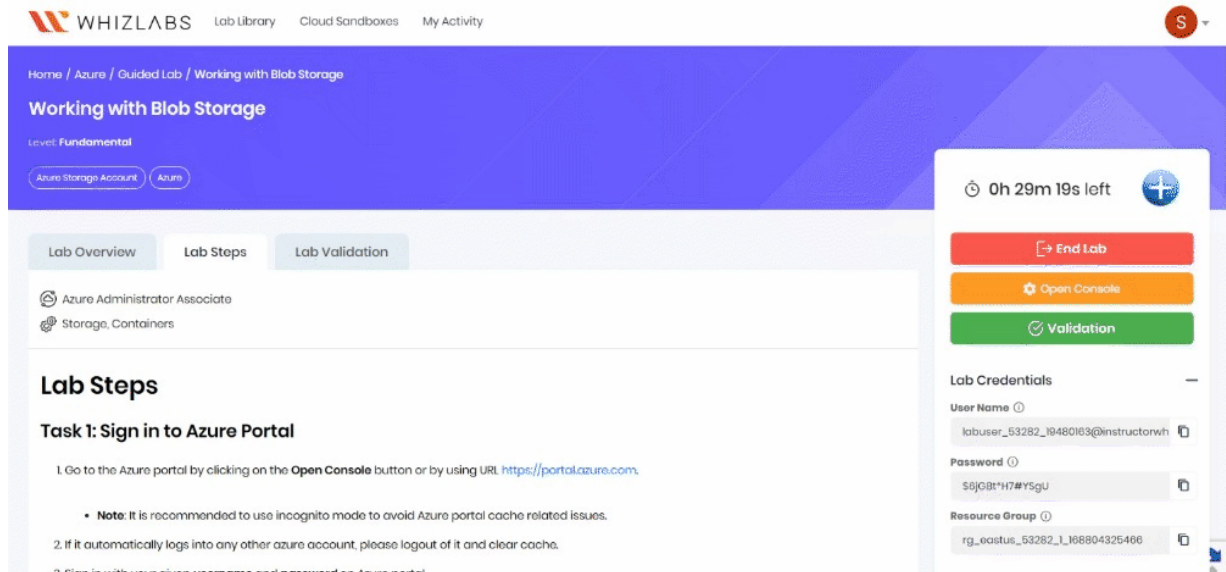
4. So, finally you accessed the blob within your container.

## 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.

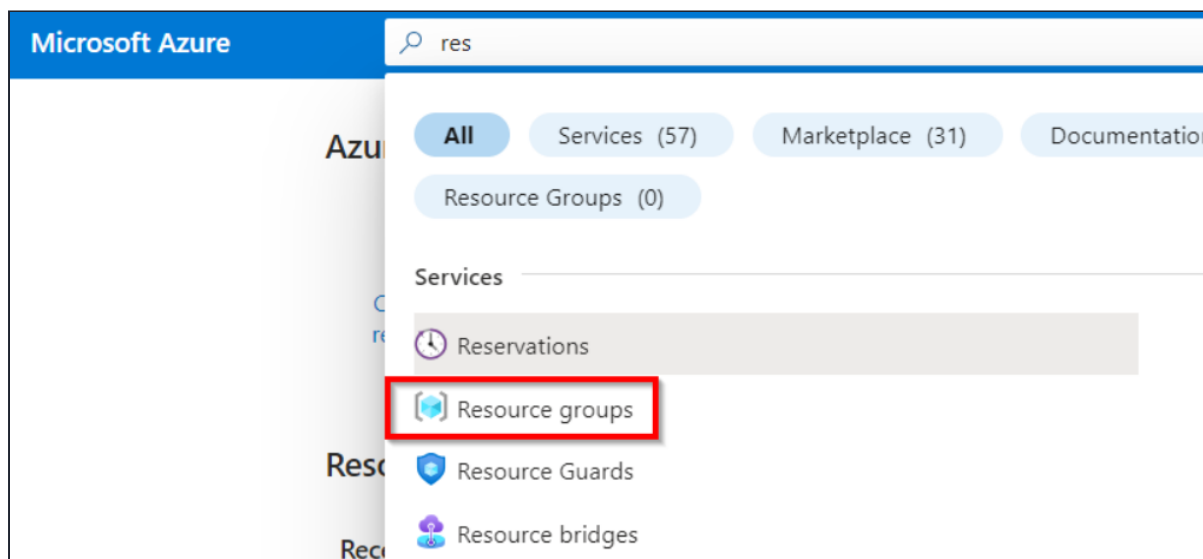
### Task 6: Validation test

1. Once the lab steps are completed, click on **Validation** button or go to **Lab Validation** section.
2. Click on **Validate My Lab** button. You will get the "**Lab Overall Status**" which will indicate whether or not you have completed the lab successfully.
3. Sample output:

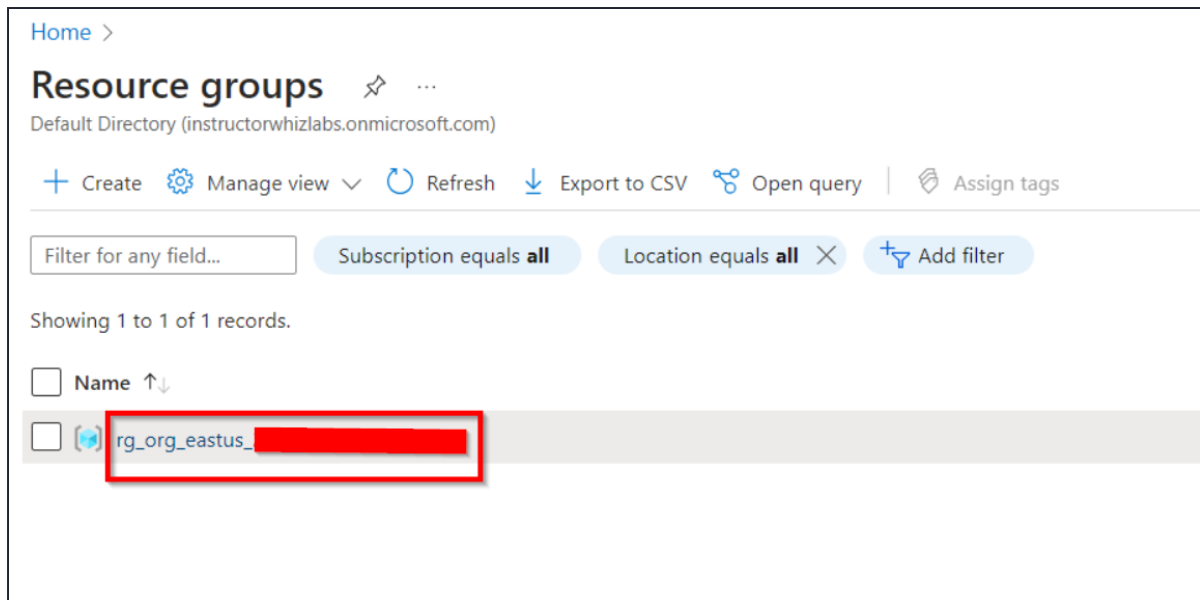


## Task 7: Deleting the resources

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.



Home >

## Resource groups

Default Directory (instructorwhizlabs.onmicrosoft.com)

+ Create ⚙️ Manage view ▾ ↻ Refresh ⬇️ Export to CSV 🔗 Open query | 🏷️ Assign tags

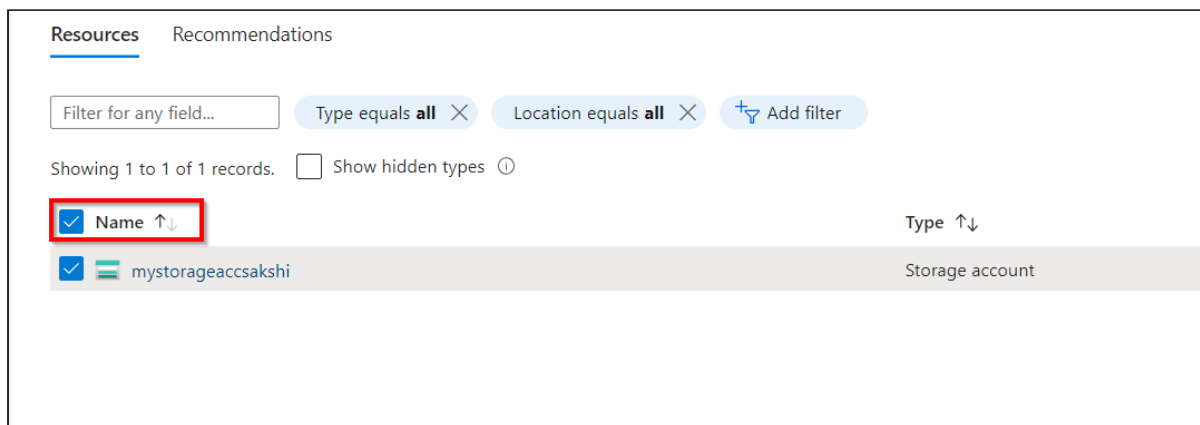
Filter for any field... Subscription equals all Location equals all X + Add filter

Showing 1 to 1 of 1 records.

☐ Name ↑↓

☐ rg\_org\_eastus\_...

3. Select all the resources in that Resource group by clicking on the **Name** checkbox.



Resources Recommendations

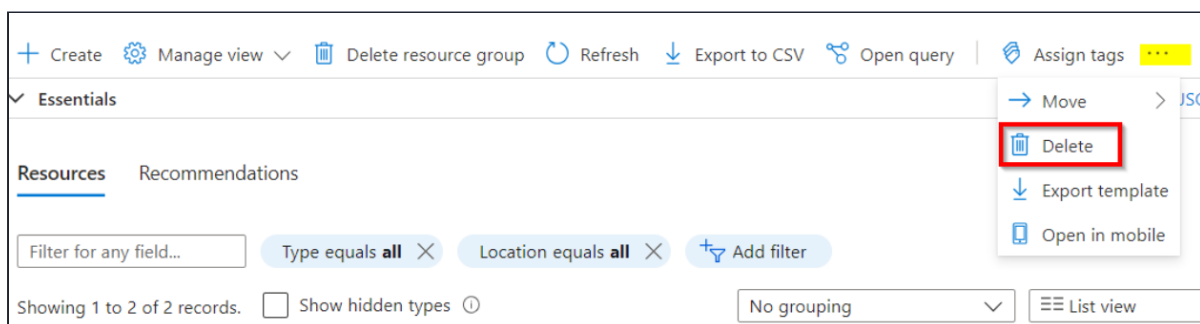
Filter for any field... Type equals all X Location equals all X + Add filter

Showing 1 to 1 of 1 records. ☐ Show hidden types ⓘ

☒ Name ↑↓ Type ↑↓

☒ mystorageaccsakshi Storage account

4. Go to the three dots on right and click **Delete**.



+ Create ⚙️ Manage view ▾ 🗑️ Delete resource group ↻ Refresh ⬇️ Export to CSV 🔗 Open query | 🏷️ Assign tags ⋮

Essentials

Resources Recommendations

Filter for any field... Type equals all X Location equals all X + Add filter

Showing 1 to 2 of 2 records. ☐ Show hidden types ⓘ No grouping ▾ List view

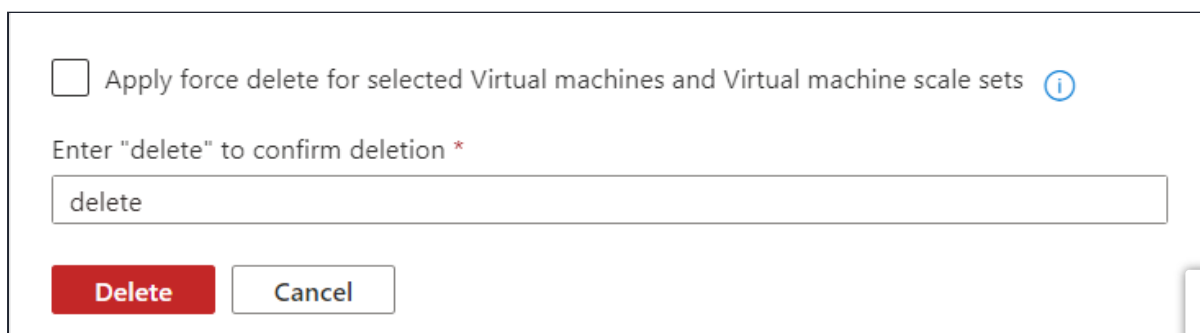
→ Move > JSC

🗑️ Delete

⬇️ Export template

📱 Open in mobile

5. Now type Delete to confirm deletion.



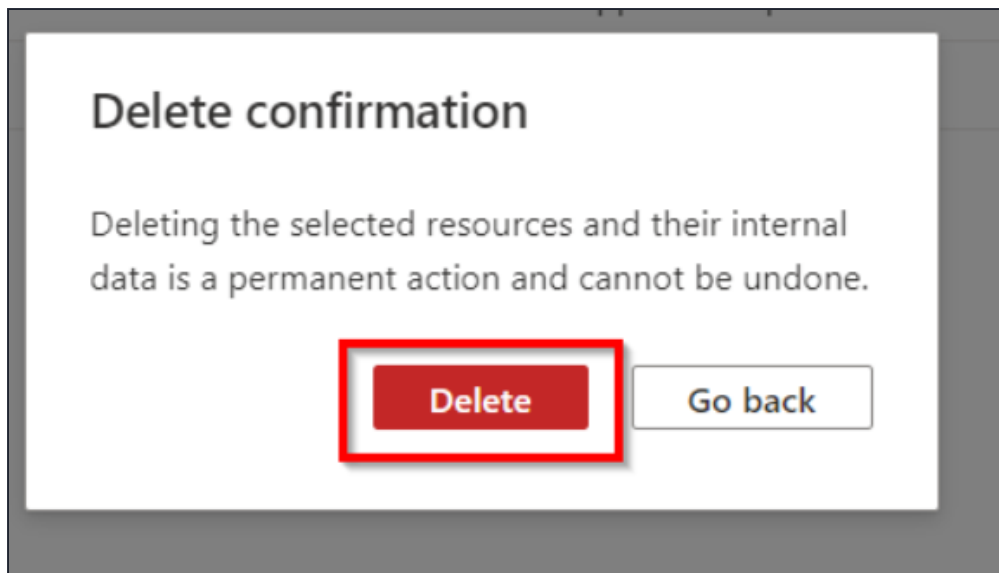
☐ Apply force delete for selected Virtual machines and Virtual machine scale sets ⓘ

Enter "delete" to confirm deletion \*

delete

Delete Cancel

## 6. Confirm Deletion.



## 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 tested the validation.
7. You have successfully deleted the resources.

## End Lab

1. You have successfully completed this lab.
2. Click on **Sign out** in Azure Portal by clicking on the logout button in the top right corner inside Azure Profile.
3. Click on the **End Lab** once you have completed the Lab.

