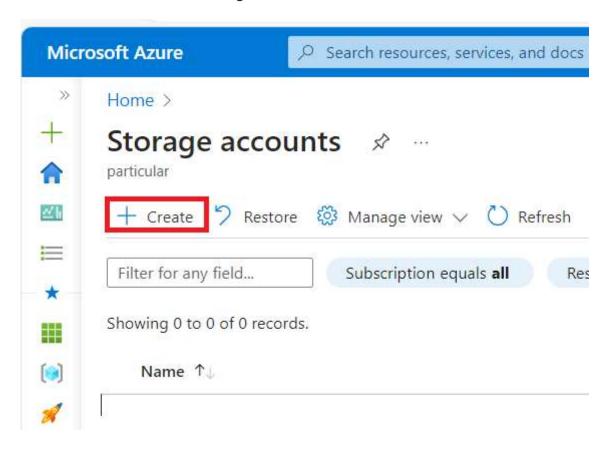
# How to use DefaultAzureCredential() for uploading a file to an Azure Blob container

## 0. Prerequisites

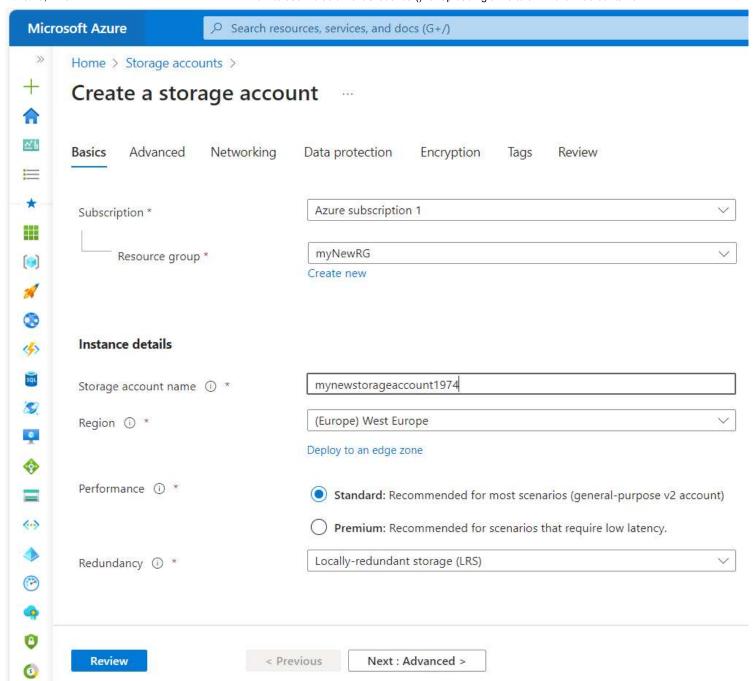
Login in Azure Portal and create a new Azure Storage account and inside create a new Blob container.

First we create the Azure Storage account



We input the new Storage account data

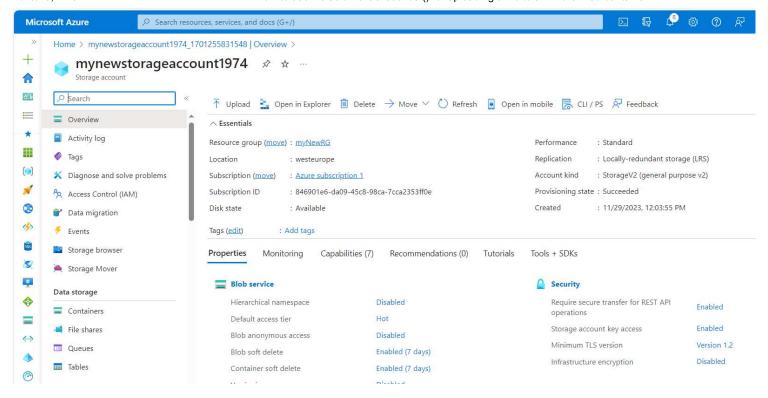
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We press the "Review" button and then the "Create" button

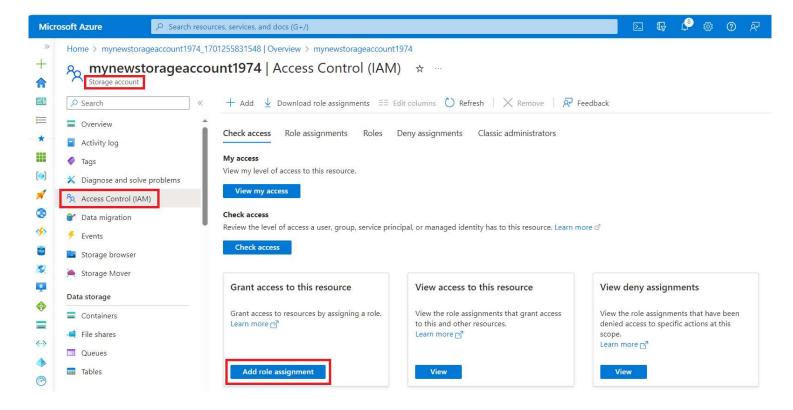
Go to the new Storage account:

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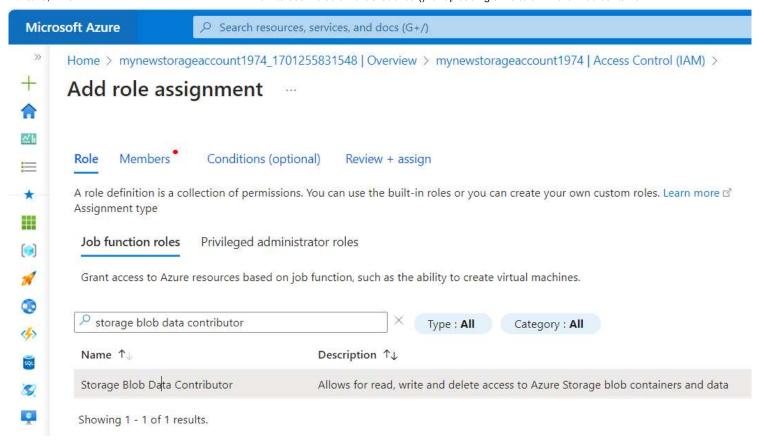
Now we have to grant permission to the storage account as "Storage Blob Data Contributor"

In the Storage account left menu we select "Access Control (IAM)" and then we press the button "Add role assignment"

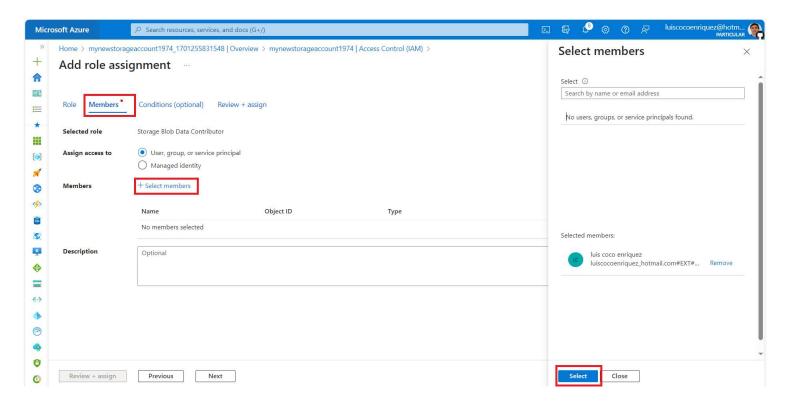


We select the "Storage Blob Data Contributor" role

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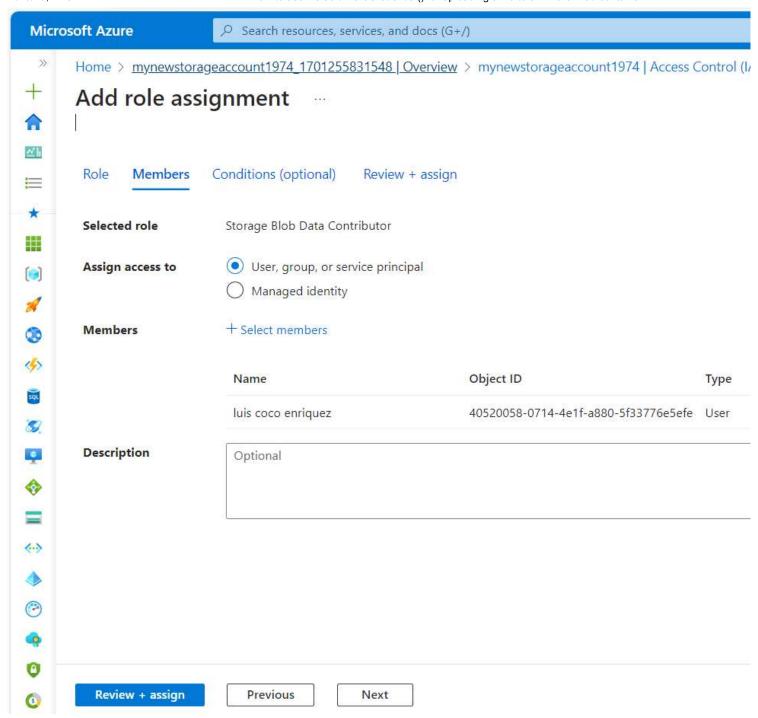


## Then we select user



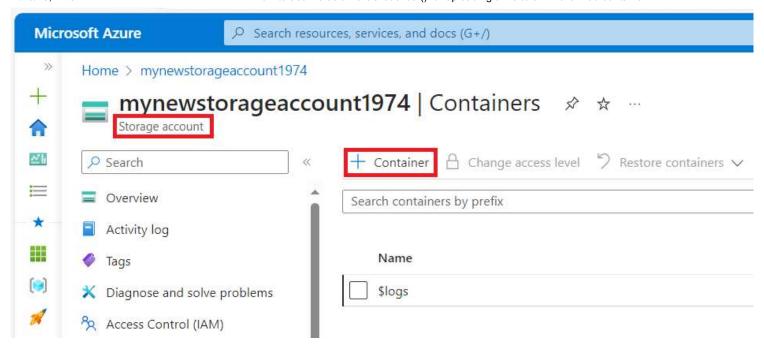
Finally, we press the button "Review + assign"

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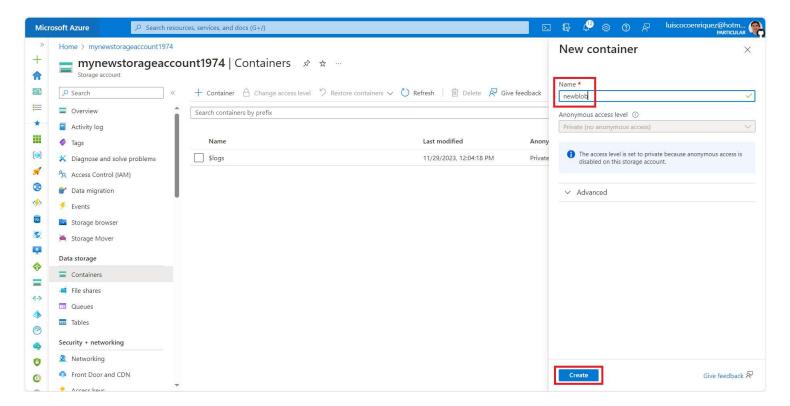


Now we have to create the Blob container:

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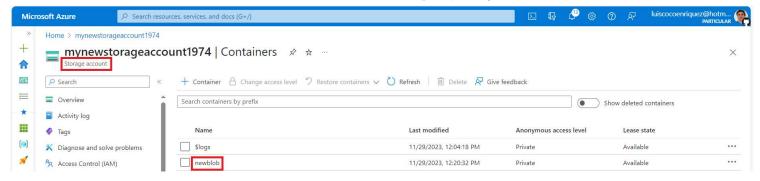


Then we set the Blob container name:

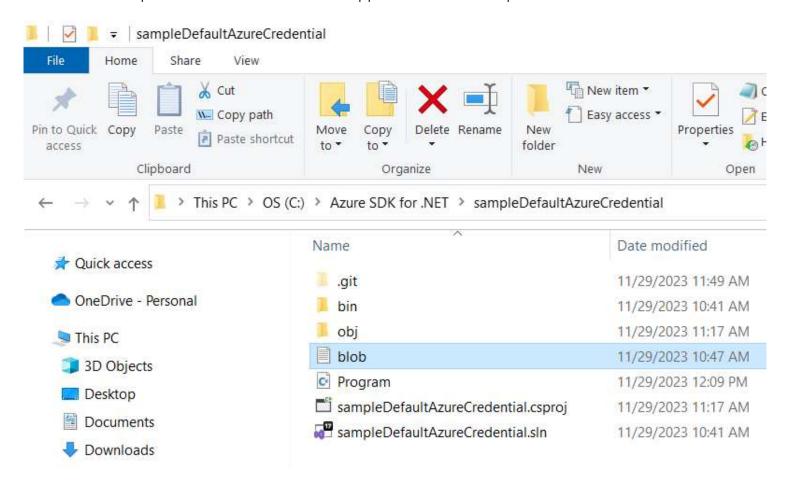


See the new Blob container:

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We also have to place the "blob.txt" file in the application folder to upload it:



## 1. Create a new console C# application in VSCode

Open VSCode and run this command to create a new C# console application with .NET 8:

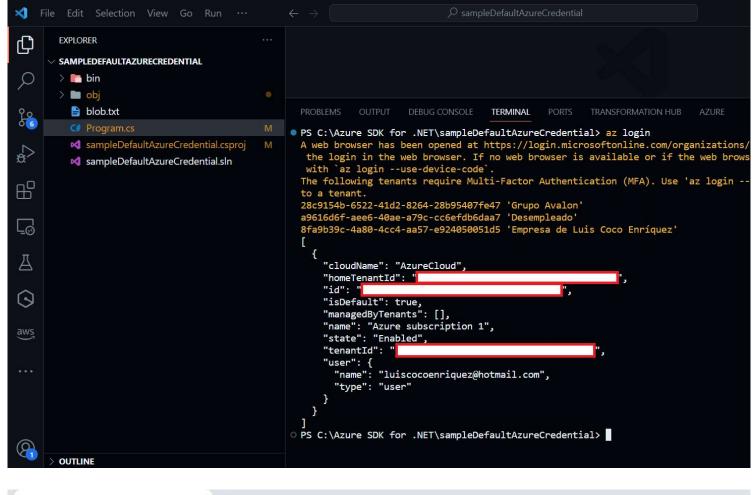
dotnet new console --framework net8.0

# 2. Login in Azure with VSCode Terminal window

In the VSCode Terminal window run the command

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#### az login





## You have logged into Microsoft Azure!

You can close this window, or we will redirect you to the Azure CLI documentation in 1 minute.

#### Announcements

[Windows only] Azure CLI is collecting feedback on using the Web Account Manager (WAM) broker for the login experience.

You may opt-in to use WAM by running the following commands:

```
az config set core.allow_broker=true
az account clear
az login
```

## 3. Load the libraries

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In your internet browser navigate to the Nuget package web page: https://www.nuget.org/packages, and look for the libraries.

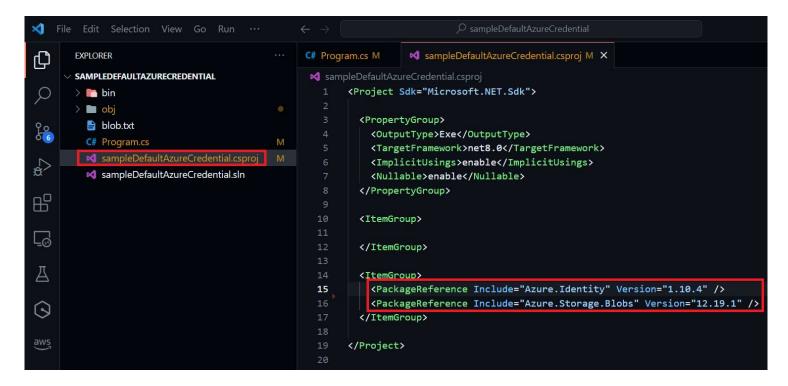
Run these commands to load the "Azure.Identity" and the "Azure.Storage.Blobs" libraries:

```
dotnet add package Azure.Identity --version 1.10.4 dotnet add package Azure.Storage.Blobs --version 12.19.1
```

After then run the command:

```
dotnet restore
```

And confirm in the **csproj** file the libraries are included:



## 4. Input the application source code

```
using System;
using System.Threading.Tasks;

using Azure.Identity;
using Azure.Storage.Blobs;

//Prerequisite: create an Azure Storage Account and inside create a new Azure Blob container string storageAccountName = "mynewstorageaccount1999";
string blobContainerName = "newblob";
```

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```
var uri = new Uri("https://"+ storageAccountName + ".blob.core.windows.net/" + blobContainerName)
var cred = new DefaultAzureCredential();

// Create a BlobContainerClient
var containerClient = new BlobContainerClient(uri, cred);

// (OPTIONAL) Create the blob container if it doesn't exist
await containerClient.CreateIfNotExistsAsync();

// Create a BlobClient and set the blob name
var blobClient = containerClient.GetBlobClient("blob.txt");

// Upload the file into the blob
await blobClient.UploadAsync("blob.txt");
Console.WriteLine("File uploaded to Blob conatiner successfully!");
```

## 5. Build and run the application

In the Terminal Window in VSCode type the command:

dotnet run

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