Using Shared Access Signatures



Thomas Claudius Huber SOFTWARE DEVELOPER

@thomasclaudiush www.thomasclaudiushuber.com



Module Outline



ASP.NET Core web app

- Use the Blob URL

Set the Container's public access level to private

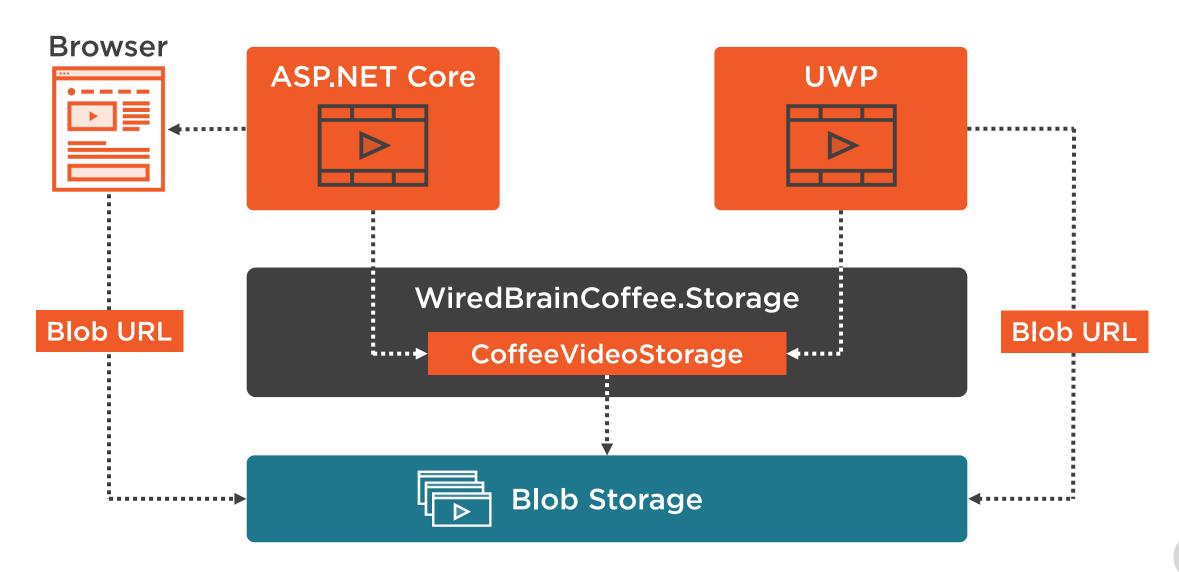
Access Blobs with a Shared Access Signature (SAS)

- Create a SAS in the Azure Portal
- Create a SAS in .NET

Know the types of Shared Access Signatures



Use the Blob URL in ASP.NET Core

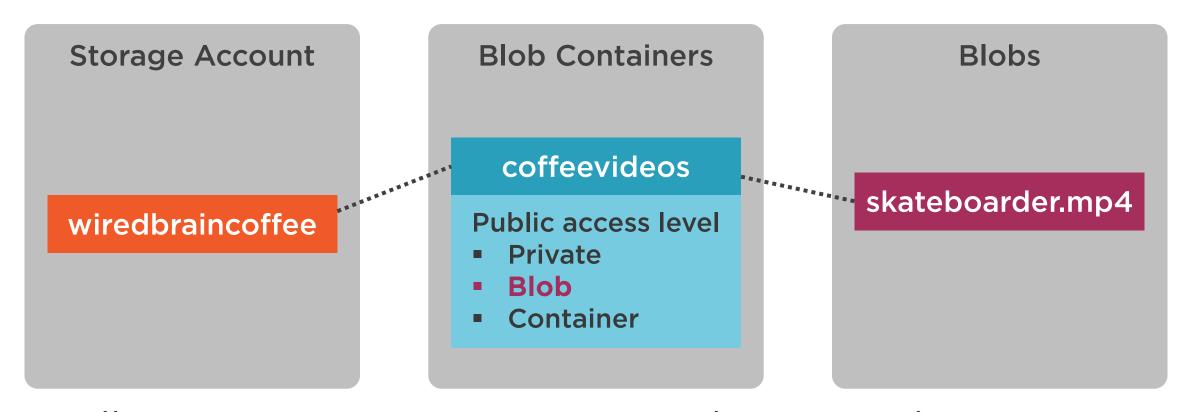






The ASP.NET Core web application
Use the Blob URL





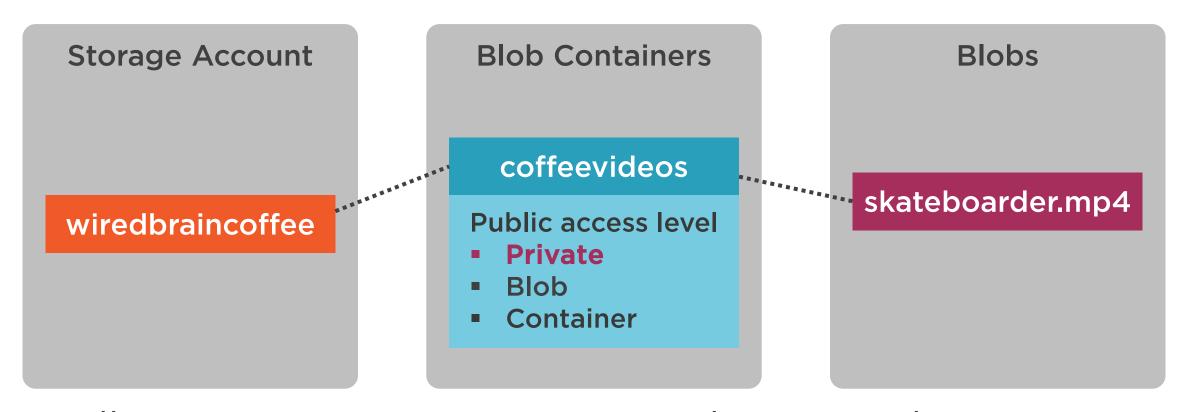
https://wiredbraincoffee.blob.core.windows.net/coffeevideos/skateboarder.mp4



"We don't want that anyone can use the Blob URLs in their static website."

Sara – software developer at Wired Brain Coffee





https://wiredbraincoffee.blob.core.windows.net/coffeevideos/skateboarder.mp4



```
await cloudBlobContainer.CreateIfNotExistsAsync(
    BlobContainerPublicAccessType.Blob, null, null);
```



```
await cloudBlobContainer.CreateIfNotExistsAsync(
    BlobContainerPublicAccessType.Off, null, null);
```



```
await cloudBlobContainer.CreateIfNotExistsAsync();
var blobContainerPermissions = new BlobContainerPermissions
  PublicAccess = BlobContainerPublicAccessType.Off
await
cloudBlobContainer.SetPermissionsAsync(blobContainerPermiss
ions);
```



await cloudBlobContainer.CreateIfNotExistsAsync();

Set the public access level to private in the Azure Portal





Adjust the call of the CreatelfNotExistsAsync method

Set the public access level on the Container to private



Anonymous Access

Account Key

Role-based Access Control (RBAC)

Shared Access Signatures (SAS)



A Shared Access Signature is a signed URL to access a resource

Blob URL



SAS Token

https://wiredbraincoffee.blob.core.windows.net/coffeevideos/skateboarder.mp4?sp=rcwd&st=2018-09-28T18:15:28Z&se=2018-09-29T02:15:28Z&spr=https&sv=2017-11-09&sig=w2pECW9KbgQhGs6eMrj%2BG7ggSbxndcE8jkotk669KYo%3D&sr=b



https://wiredbraincoffee.blob.core.windows.net/coffeevideos/skateboarder.mp4?sp=rcwd&st=2018-09-28T18:15:28Z&se=2018-09-29T02:15:28Z&spr=https&sv=2017-11-09&sig=w2pECW9KbgQhGs6eMrj%2BG7ggSbxndcE8jkotk669KYo%3D&sr=b



Shared Access Signatures are created client-side NOT know the number of Shared Access Signatures

The expiry time is important

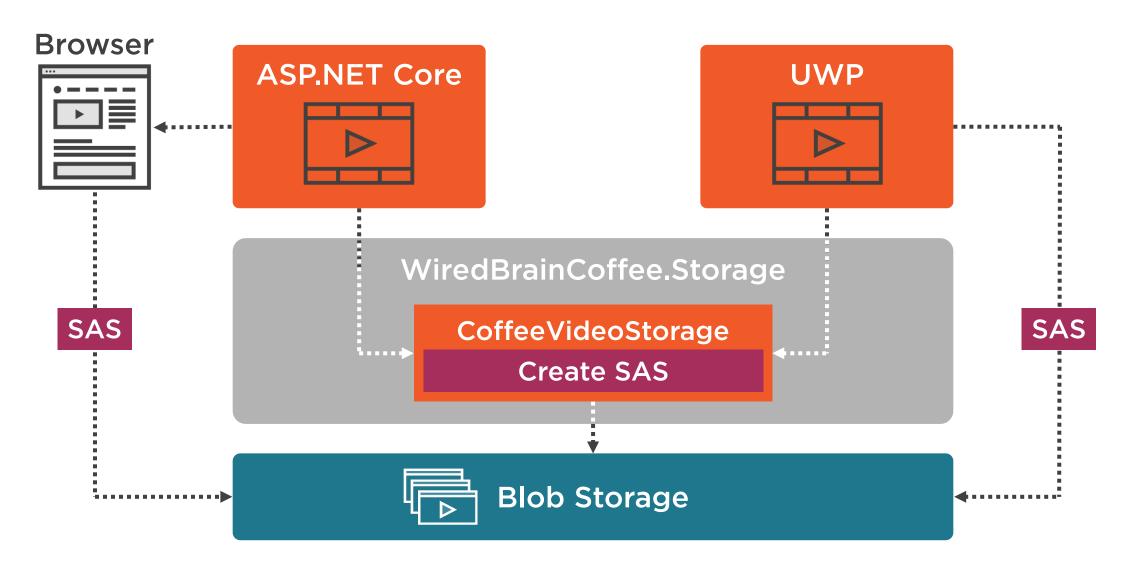




Create a Shared Access Signature for a Blob in the Azure Portal



Create a Shared Access Signature in .NET





Create a Shared Access Signature in the CoffeeVideoStorage class

Use the SAS

- In the ASP.NET Core app
- In the UWP app



Know the Types of Shared Access Signatures

Service
Shared Access Signatures

Account
Shared Access Signatures



Know the Types of Shared Access Signatures

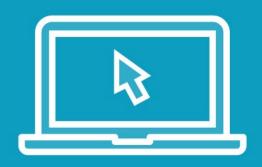
Blob Service SAS

```
cloudBlockBlob.GetSharedAccessSignature(sharedAccessBlobPolicy);
cloudBlobContainer.GetSharedAccessSignature(sharedAccessBlobPolicy);
```

Account SAS

cloudStorageAccount.GetSharedAccessSignature(sharedAccessAccountPolicy);





Create an Account SAS in the Azure Portal



Summary



Access Blobs with a Shared Access Signature

- Blob URL + SAS token

Create a Shared Access Signature

- In the Azure Portal
- In .NET

Types of Shared Access Signatures

- Service SAS
- Account SAS

URL to read a Blob is valid for 24 hours

