**Lesson08 Azure SASS key**

**Notes: -**

**1-access key for storage account provide access to all containers under that storage account**

**SASS key usage**

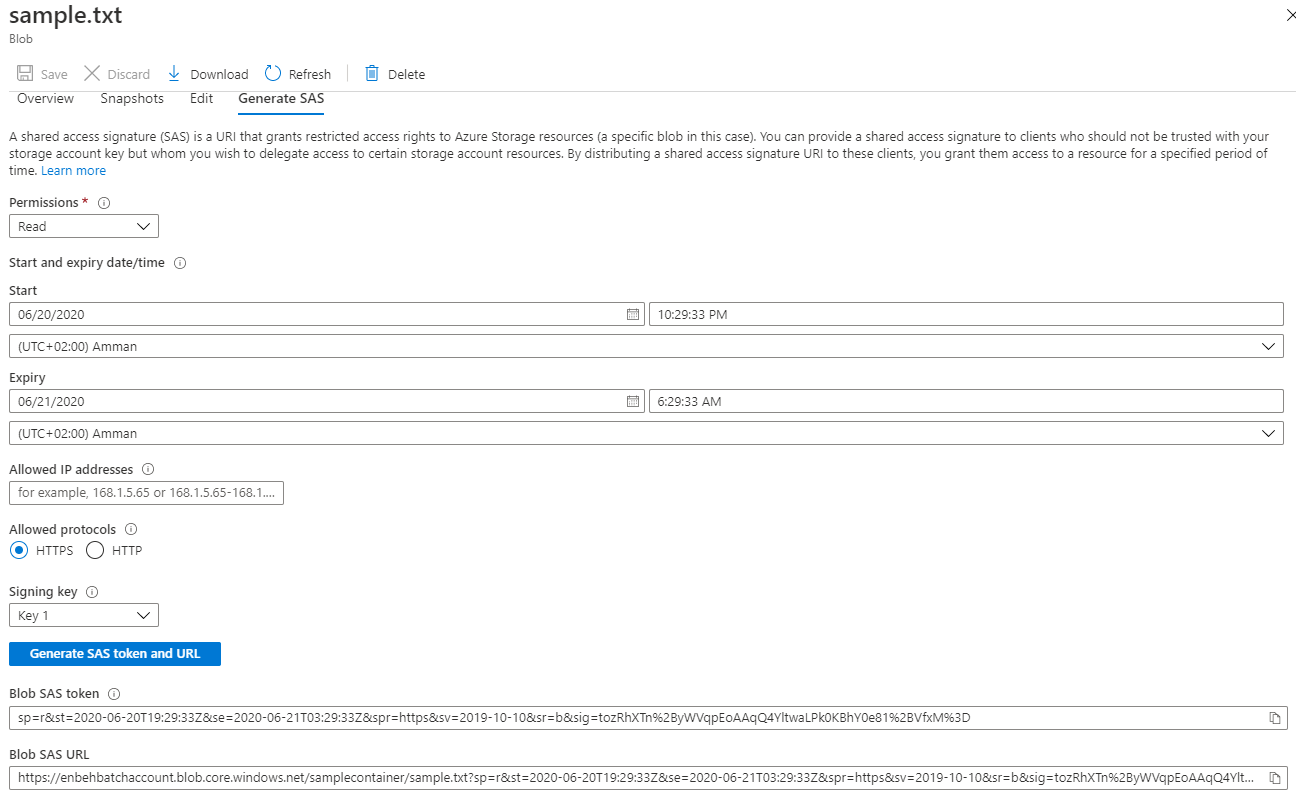
**A-in order to access only to the BLOB for specific period, or provide access only containers on the storage account you**

**B-in order you provide access to range of IP Address**

**2-in order to use the blob in private access level so its access only with authenticated user**



**3-right click on the blob > Generate SASS key**



**(copy the BLOB SASS URL and paste it inside the browser)**

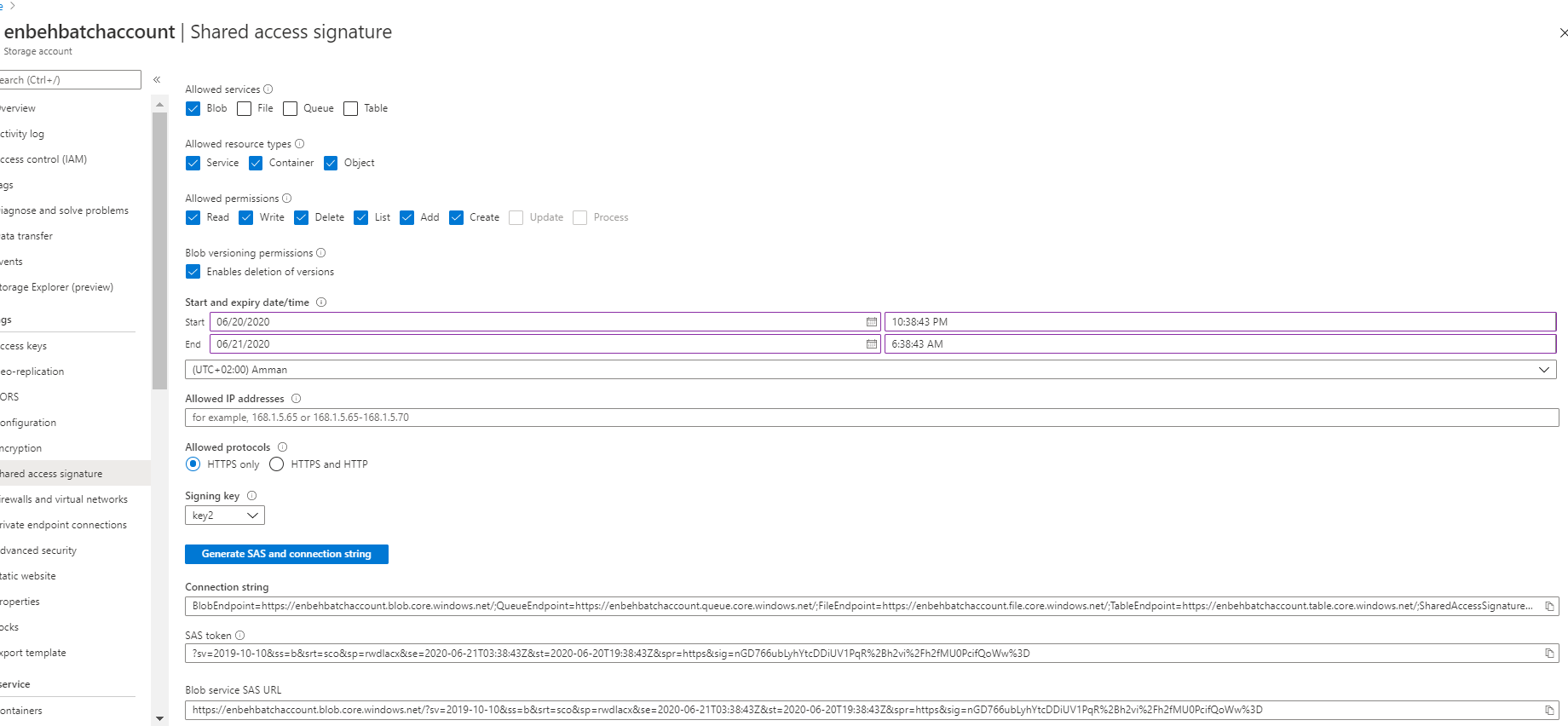
**4-on the browser after copy the SASS URL you will see the result**



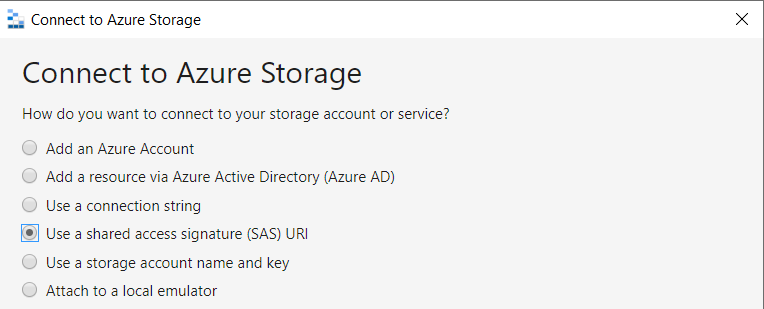
**5-on Azure Storage Account > Shared access signature**

**(select the allowed services , resource type , allowed permission and from -> to date)**

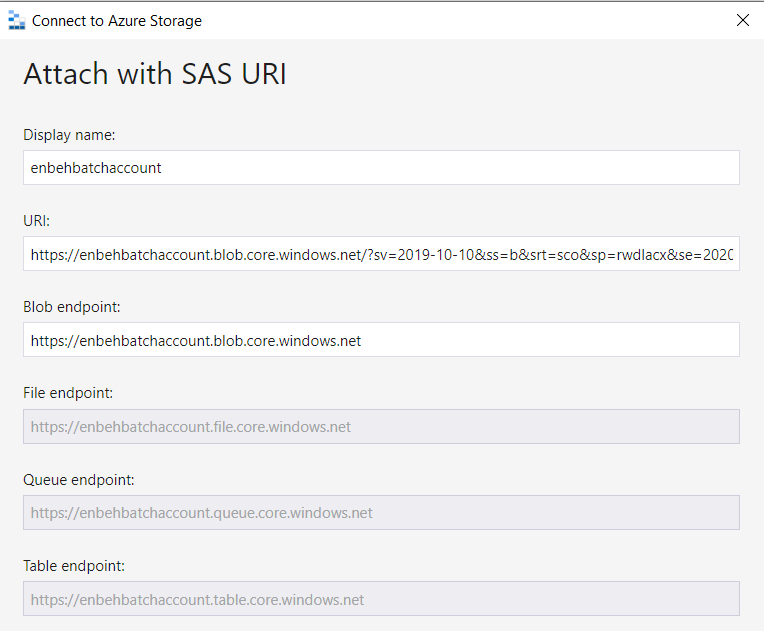
**(you can select the range of IP Address)**



**6-on Azure storage explorer > connect > use SASS URL**



**Pass the SASS key to access to the targeted services under storage account**



**SASS Key in .Net**

**using Azure.Storage;**

**using Azure.Storage.Blobs;**

**using Azure.Storage.Blobs.Models;**

**using Azure.Storage.Sas;**

**using System;**

**using System.IO;**

**using System.Threading.Tasks;**

**namespace sasprogram{**

**class Program{**

**//define the storage account Name and account key and container name and blob name**

**static string accountname = "enbehbatchaccount";**

**static string accountkey = "wxFj8csDwpe0i7wy09zMrksOFJCJeEhTCJmMmnTWhvfCkINgG7/vewf1t6ZbRUhxy/p4qWHeUXzH9W1sMnjiFA==";**

**static string containerName = "samplecontainer";**

**static string blobname = "sample.txt";**

**static async Task Main(string[] args){**

**Uri sharedacecss=GenerateSAS();**

**Console.WriteLine(sharedacecss);**

**ReadBlob(sharedacecss).Wait();**

**Console.ReadKey();}**

**static Uri GenerateSAS(){**

**//SASS credential with specify container and blob names with start and expiry dates**

**BlobSasBuilder sasBuilder = new BlobSasBuilder(){**

**BlobContainerName = containerName,**

**BlobName = blobname,**

**Resource = "b",**

**StartsOn = DateTimeOffset.UtcNow,**

**ExpiresOn = DateTimeOffset.UtcNow.AddHours(5)};**

**//provide SASS credential permission of Read operation**

**sasBuilder.SetPermissions(BlobSasPermissions.Read);**

**//provide provide storage key credential with pass account naem and account key**

**var storageSharedKeyCredential = new StorageSharedKeyCredential(accountname,accountkey);**

**//provide SASS Token by combine SASS credential and storage account Name and account key**

**string sasToken = sasBuilder.ToSasQueryParameters(storageSharedKeyCredential).ToString();**

**// Build the full URI to the Blob SAS from the SASS Token**

**UriBuilder w\_fullUri = new UriBuilder(){**

**Scheme = "https",**

**Host = string.Format("{0}.blob.core.windows.net", accountname),**

**Path = string.Format("{0}/{1}", containerName, blobname),**

**Query = sasToken};**

**return w\_fullUri.Uri;}**

**//By pass SASS URL you can access to the BLOB directly**

**static async Task ReadBlob(Uri p\_SASUri){**

**BlobClient blobClient = new BlobClient(p\_SASUri, null);**

**BlobDownloadInfo blobDownloadInfo = await blobClient.DownloadAsync();**

**using (StreamReader reader = new StreamReader(blobDownloadInfo.Content, true)){**

**string line;**

**while ((line = reader.ReadLine()) != null){Console.WriteLine(line);}}}}}**