

## AZCOPY - Demo

AzCopy is a command-line utility that you can use to copy blobs or files to or from a storage account.

- Create Azure Storage Account and then a container blob to store files.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo and a search bar. The breadcrumb trail indicates the user is in the 'sa1demo' storage account. The left sidebar lists various services, with 'Containers' highlighted under the 'Data storage' section. The main content area displays the 'sa1demo | Containers' page. It features a search bar for containers and a table listing existing containers.

Name	Last modified	Public access level
<input type="checkbox"/> \$blobchangefeed	8/29/2022, 11:14:15 AM	Private
<input type="checkbox"/> \$logs	8/29/2022, 11:14:15 AM	Private
<input type="checkbox"/> container1	8/29/2022, 12:01:10 PM	Container

- Get the SAS token as shown below

The screenshot shows the Microsoft Azure portal interface for the 'container1' container. The breadcrumb trail indicates the user is in the 'sa1demo' storage account and then the 'container1' container. The left sidebar lists various services, with 'Overview' highlighted under the 'Data storage' section. The main content area displays the 'container1' page. It features a search bar for blobs and a table listing existing blobs.

**Authentication method:** Access key ([Switch to Azure AD User Account](#))  
**Location:** container1

Name	Modified	Access tier
<input type="checkbox"/> variables		
<input type="checkbox"/> Changes in MM2.docx	8/29/2022, 8:27:04 PM	Hot (Inferred)
<input type="checkbox"/> error.html	8/29/2022, 12:01:37 ...	Hot (Inferred)
<input type="checkbox"/> index.html	8/29/2022, 12:01:31 ...	Hot (Inferred)

Home > sa1demo | Containers > container1

## container1 | Shared access tokens

Search (Ctrl+/)

- Overview
- Diagnose and solve problems
- Access Control (IAM)

### Settings

- Shared access tokens
- Access policy
- Properties
- Metadata

A shared access signature (SAS) is a URI that grants restricted access to an Azure Storage container. Use it when you want to access the container without sharing your storage account key. [Learn more about creating an account SAS](#)

#### Signing method

☒ Account key ☐ User delegation key

#### Signing key

Key 1

#### Stored access policy

None

#### Permissions

2 selected

read, write

#### Start and expiry date/time

##### Start

08/29/2022 10:08:33 PM

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

##### Expiry

08/30/2022 6:08:33 AM

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

#### Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1.5.65

#### Allowed protocols

☒ HTTPS only ☐ HTTPS and HTTP

Generate SAS token and URL

## container1 | Shared access tokens

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)

### Settings

- Shared access tokens
- Access policy
- Properties
- Metadata

A shared access signature (SAS) is a URI that grants restricted access to an Azure Storage container. Use it when you want to access the container without sharing your storage account key. [Learn more about creating an account SAS](#)

☒ Read ☐ Add ☐ User delegation key

☐ Create

☒ Write

☐ Delete

☐ List

☐ Immutable storage

2 selected

#### Start and expiry date/time

##### Start

03/16/2023 8:02:04 PM

(UTC-05:00) Eastern Time (US & Canada)

##### Expiry

03/17/2023 4:02:04 AM

(UTC-05:00) Eastern Time (US & Canada)

Microsoft Azure | Upgrade | Search resources, services, and docs (G+)

Home > sa1demo | Containers > container1

container1 | Shared access tokens

Container

Search (Ctrl+/)

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Signing method

☒ Account key ☐ User delegation key

Signing key

Key 1

Stored access policy

None

Permissions \*

2 selected

Start and expiry date/time

Start

08/29/2022 10:08:33 PM

(UTC-05:30) Chennai, Kolkata, Mumbai, New Delhi

Expiry

08/30/2022 6:08:33 AM

(UTC-05:30) Chennai, Kolkata, Mumbai, New Delhi

Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1...

Allowed protocols

☒ HTTPS only ☐ HTTPS and HTTP

Generate SAS token and URL

Blob SAS token

sp=rw&st=2022-08-29T16:38:33Z&se=2022-08-30T00:38:33Z&spr=https&sv=2021-06-08&sr=c&sig=I33fo69nsGCD%2FTSvgs8sz2Oww06jldR7VR4uodx2T%2BHA%3D

Blob SAS URL

https://sa1demo.blob.core.windows.net/container1?sp=rw&st=2022-08-29T16:38:33Z&se=2022-08-30T00:38:33Z&spr=https&sv=2021-06-08&sr=c&sig=I33fo69nsGCD%2FTSvgs8sz2Oww06jldR7VR4uodx2T%2BHA%3D

- Copy "Blob SAS URL" from above screen such as  
<https://sa1demo.blob.core.windows.net/container1?sp=rw&st=2022-08-29T16:38:33Z&se=2022-08-30T00:38:33Z&spr=https&sv=2021-06-08&sr=c&sig=I33fo69nsGCD%2FTSvgs8sz2Oww06jldR7VR4uodx2T%2BHA%3D>
- Download "AZCOPY" tool from <https://aka.ms/downloadazcopy-v10-windows> for windows and install azcopy on mac using <https://formulae.brew.sh/formula/azcopy>
- It's an exe file. No need to install it. Move this exe to a specific folder such as "C:\Windows\System32\"
- Run below command to copy the all files from  
 copy "C:\temp\variables\variables"  
 "https://sa1demo.blob.core.windows.net/container1?sp=rw&st=2022-08-29T16:16:14Z&se=2022-08-30T00:16:14Z&spr=https&sv=2021-06-08&sr=c&sig=xVu%2Fp857alipLsXNyU9f0vLNyAXY5rxEvgehcSoW7bU%3D" --recursive=true

```
Administrator: Command Prompt
C:\WINDOWS\system32>cd C:\Users\knallusa\Downloads\azcopy_windows_amd64_10.16.0

C:\Users\knallusa\Downloads\azcopy_windows_amd64_10.16.0>azcopy.exe copy "C:\Users\knallusa\OneDrive - Capgemini\Documents\IISExpress\config" "https://sa2demo.blob.core.windows.net/container1?sp=rw&st=2022-09-02T06:01:11Z&se=2022-09-02T14:01:11Z&spr=https&sv=2021-06-08&sr=c&sig=qD6081%2BrJ8L%2B3Z%2BJ3gF01HCaI71YuKPHf5UVJQJskwc%3D" --recursive=true
INFO: Scanning...
INFO: Any empty folders will not be processed, because source and/or destination doesn't have full folder support

Job bbbe7701-2179-304f-4209-ba936ea867a3 has started
Log file is located at: C:\Users\knallusa\.azcopy\bbbe7701-2179-304f-4209-ba936ea867a3.log

100.0 %, 3 Done, 0 Failed, 0 Pending, 0 Skipped, 3 Total,

Job bbbe7701-2179-304f-4209-ba936ea867a3 summary
Elapsed Time (Minutes): 0.0669
Number of File Transfers: 3
Number of Folder Property Transfers: 0
Total Number of Transfers: 3
Number of Transfers Completed: 3
Number of Transfers Failed: 0
Number of Transfers Skipped: 0
TotalBytesTransferred: 87756
Final Job Status: Completed

C:\Users\knallusa\Downloads\azcopy_windows_amd64_10.16.0>
```

- Now all files from local to be copied to blob container

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home > sa1demo | Containers >

**container1** ...  
Container

Search (Ctrl+/) << Upload Change access level Refresh Delete Change tier Acquire lease Break lease

Overview  
Diagnose and solve problems  
Access Control (IAM)  
Settings  
Shared access tokens  
Access policy  
Properties  
Metadata

Authentication method: Access key (Switch to Azure AD User Account)  
Location: container1 / variables

Search blobs by prefix (case-sensitive)

+ Add filter

	Name	Modified	Access tier	Archive
<input type="checkbox"/>	[-]			
<input type="checkbox"/>	adfvvars-common-config.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-dev1.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-dev2.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-dev3.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-qe.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-qe2.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-qe3.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	
<input type="checkbox"/>	adfvvars-sb.yml	8/29/2022, 9:52:38 PM	Hot (Inferred)	

Note : Ensure you generate SAS token at container level as shown below; else, you get authentication error.

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)
- Settings
  - Shared access tokens
  - Access policy
  - Properties
  - Metadata

Start and expiry date/time

Start

03/16/2023 8:40:37 PM

(UTC-05:00) Eastern Time (US & Canada)

Expiry

03/24/2023 4:40:37 AM

(UTC-05:00) Eastern Time (US & Canada)

Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1....

Allowed protocols

☒ HTTPS only ☐ HTTPS and HTTP

Generate SAS token and URL

Blob SAS token

sp=racw&st=2023-03-17T00:40:37Z&se=2023-03-24T08:40:37Z&spr=https&sv=2021-12-02&sr=c&sig=fKEQZXHij%2BnnMv3bAl%2FRBAI79wQti0ChrbIA4YzU44%3D

Blob SAS URL

https://march16demo.blob.core.windows.net/container1?sp=racw&st=2023-03-17T00:40:37Z&se=2023-03-24T08:40:37Z&spr=https&sv=2021-12-02&sr=c&sig=fKEQZXHij%...