# **Azure AZ copy:**

AzCopy is a command-line utility/tool that we can use to copy blobs or files to or from a storage account; we have to download AZ Copy software/tool, connect to our storage account, and then can transfer/migrate the files.

# **(i)Migration From Private cloud to Public cloud(Forward Migration):**

* Download the AzCopy dll from below link in our laptop

<https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10>

* After its gets downloaded>>extract the zip file>>go inside the folders>>copy(ctrl+c) the azcopy.exe and paste it in below path in our laptop>>

**C:\Windows\System32**>>

* Go to Azure portal and create a storage account and create a container(blob) storage service
* come inside the blob/container storage>>click on properties (left side inside)>>copy the URL and paste it in a separate notepad
* Now go to Shared access signature (inside the storage account)>>select all the options>>click radio button HTTPS and HTTP(for sure) >>click on Generate SAS and connection string>>copy the SAS token(carefully)>>concatenate this SAS token with container blob storage service URL(as example shown below)

https://mysa1972.blob.core.windows.net/mycontainer >> Blob storage Container URL

?sv=2020-08-04&ss=b&srt=sco&sp=rwdlacitfx&se=2021-12-24T20:09:55Z&st=2021-12-24T12:09:55Z&spr=https,http&sig=HmtQmRiO0C%2BablXp8%2B961rT6GtcYZSuJxakd8josccs%3D>> SAS generated token

# **Doing the Concatenation (as shown below):**

https://mysa1972.blob.core.windows.net/mycontainer/?sv=2020-08-04&ss=b&srt=sco&sp=rwdlacitfx&se=2021-12-24T20:09:55Z&st=2021-12-24T12:09:55Z&spr=https,http&sig=HmtQmRiO0C%2BablXp8%2B961rT6GtcYZSuJxakd8josccs%3D

* Now search for command prompt/Azure CLI in our laptop and open with run as administrator>>type azcopy.exe copy "here give the source path where our files are present in our local laptop to copy to our Azure container storage service" "here give the container storage service URL along with SAS token" --recursive>>and then finally hit enter
* Now come to our container storage service and we could be able to see all the files/data that we have uploaded using Azcopy from our local laptop to Azure cloud storage services.
* Hence we have migrated the Data from On-prem(Private Cloud) to Public cloud computing

# **Migration from Public cloud to Private cloud (Reverse Migration):**

* Create an empty folder in any drive in your laptop (ex: F drive)
* Create a Storage Account and create a blob container and let’s keep some data init (ex: files)
* Open the cmd prompt with Administrator access and pass the below commands using AzCopy as shown below.

azcopy.exe copy “Source Storage Account URL (container\_url\_followed\_with SAS token)” “Destination Path this is our F drive local path from our local laptop” –recursive

# **Migration of Data from One storage Account to Another (Platform or Cloud to Cloud Migration)**

**Note:** Firstly, ensure the 2nd storage account (or) destination storage account should be empty and must be having a container/Blob storage service created inside the storage account and not having the same files/data which we are going to dump using azure AZ Copy and if the same files/data already present in the destination storage account and if we run the command AZ Copy again then it **will ignore** if already files are present.

* Follow all the steps same as above and now in command prompt
* azcopy.exe copy “Source Storage Account URL (container\_url\_followed\_with SAS token)” “Destination Storage Account URL(container\_url\_followed\_with SAS token)” --recursive