# 파일 시스템 연결

# ADLS2 Creation

## Basics

1. Select Resource group
2. Storage account name: should be unique.
3. Performance à Standard is enough for most scenarios.
4. Redundancy à Locally-redundant storage (LRS) is enough for our purpose

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## Advanced

1. Enable storage account key access (by default selected, but important to check)
2. Enable hierarchical namespace: 폴더, 서브 디렉토리 방식의 폴더 시스템

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## Networking

1. Enable public access

## Review + Create

## Container 추가 작업 in ADLS2

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# [ADLS2 Mount (in Ubuntu machine)](https://learn.microsoft.com/en-us/azure/storage/blobs/storage-how-to-mount-container-linux?tabs=Ubuntu#mount)

## blobfuse 설치

## config 파일 생성

accountName mounteddata

accountKey k5zvfkz57FzzQI/+qTG07bnAPJhdxm8RId2GpIxeSvSYIcHzo0KQozY3YcZ4KnPVMMpPPqurQkfx+AStRMCCDQ==

containerName dtdata

authType Key

To get accountKey

* az storage account keys list --account-name <account name>--resource-group <recource group name>
* then either key1 or key2

## Mount

blobfuse /home/dyouk/mycontainer --tmp-path=/home/dyouk/blobfuse/cache --config-file=/home/dyouk/blobfuse/blobfuse.cfg

## ReMount

fusermount -u /home/dyouk/mycontainer

blobfuse /home/dyouk/mycontainer --tmp-path=/home/dyouk/blobfuse/cache --config-file=/home/dyouk/blobfuse/blobfuse.cfg

# ADLS2 Mount (in Windows machine)

* 1. Chocolatey install
  2. Install Rclone with Chocolateyà then configure Rclone
  3. install winfsp with Chocolatey
  4. mount blob to local machine

(e.g rclone mount remote:container C:\Users\DTman\OneDrive\Desktop\DockerForDataProfessionals\mounteddrive --vfs-cache-mode full

# ADLS2 Access (in Windows & MAC & Linux)

## [Download Azure Storage Explorer](https://azure.microsoft.com/en-us/products/storage/storage-explorer)

## KEY 방식:

1. right click of Storga Accounts in MASE (Microsoft Azure Storage Explorer) –> Connect to Azure Storage 🡪 Storage account or service 🡪 Connection string
2. Copy the Key (Connection String) for Storage Account

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## SAS (Shared Access Signature) 방식

1. Generate SAS (Shared Access Signature) for Container

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1. right click of Storga Accounts in MASE (Microsoft Azure Storage Explorer) –> Connect to Azure Storage 🡪 ADLS Gen2 container or directory à Shared access signature URL à Copy the SAS into the Blank (Blob container or directory SAS URL:) à Blob SAS URL 붙여넣기

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1. Blob SAS token can be used as well to share any file via web. (Power Bi, Excel, Airtable또는 메일 등에서 유용함)

https://<Storage account>.blob.core.windows.net/<container/folder/file>?<Blob SAS token>

예시)

Python Coding

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## RBAC (Role Based Access Control) 방식

1. IAM (Identity and Access Management) for Container
2. right click of Storga Accounts in MASE (Microsoft Azure Storage Explorer) –> Connect to Azure Storage 🡪 ADLS Gen2 container or directory 🡪 Sign in using OAuth

# Blob Storage Mount 와 Azure Storage Explorer 의 한계점

## Blob Storage Mount 의 제한 사항

1. 새로운 파일이나 폴더가 생성되었을 때에만 Sync 기능 구현됨
2. 파일 업데이트의 경우 반영되지 않음

1) Mounted folder → Blob Storage 즉시

2) Blob Storage → Mounted folder. 재마운트 시에만 반영됨.

## 5.2 Azure Storage Explorer 의 제한 사항

1. Mount 방식이 아니기 때문에 항상 파일을 다운로드 해야 함