

AWS S3 mount guide for windows

1. IAM 계정 발급
 - S3 권한이 있는 계정으로 발급 (프로그래밍 접근)
2. Rclone 다운로드
 - 설치한 OS에 맞는 버전에 맞는 다운로드 및 압축 해제
 - URL : <https://rclone.org/downloads/>
3. Rclone configuration
 - Powershell 실행
 - Rclone 설치 경로로 이동

```
Administrator: Windows PowerShell (5)
Windows PowerShell
Copyright (C) 2012 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> cd C:\rclone
PS C:\rclone> █
```

- Rclone 설정 진행

- .\rclone.exe config

```
Administrator: Windows PowerShell (5)
Windows PowerShell
Copyright (C) 2012 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> cd C:\rclone
PS C:\rclone> .\rclone.exe config
```

- n > 상황에 맞게 적절히 입력

```
No remotes found - make a new one
n> New remote
s> Set configuration password
q> Quit config
n/s/q> n
name> s3cylearncontents
```

- 4 선택

```
4 / Amazon S3 compatible providers (AWS, B2, Cloudflare, Ceph, DigitalOcean, Dropbox, IBM COS, Minio, etc)
```

- 1 선택

```
Choose your S3 provider.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value
1 / Amazon Web Services (AWS) S3
W "AWS"
```

- 1 선택

```
Get AWS credentials from runtime (environment variables or EC2/ECS meta data if no env vars).
Only applies if access_key_id and secret_access_key is blank.
Enter a boolean value (true or false). Press Enter for the default (<"false">).
Choose a number from below, or type in your own value
1 / Enter AWS credentials in the next step
# "false"
```

- IAM 에서 발급받은 S3 접근 권한이 있는 계정의 access key 와 secret access key 를 입력

```
AWS Access Key ID.
Leave blank for anonymous access or runtime credentials.
Enter a string value. Press Enter for the default (<">).
access_key_id> AKIATT5UTW7ILJ5UNWEC
AWS Secret Access Key (password)
Leave blank for anonymous access or runtime credentials.
Enter a string value. Press Enter for the default (<">).
secret_access_key> W9hhAT2BbYcv16uFzb/AJbzIn4E2Iq7Gm0v07zvw
```

- 13 선택 (연결이 필요한 리전에 맞게 선택)

```
/ Asia Pacific (Seoul)
13 ! Needs location constraint ap-northeast-2.
# "ap-northeast-2"
```

- Endpoint 는 공백 Enter
- 13번 선택 (연결이 필요한 리전에 맞게 선택)

```
13 / Asia Pacific (Seoul)
# "ap-northeast-2"
```

- 1번 선택 (권한 제어가 필요할 경우 다른 옵션 선택)

```
Choose a number from below, or type in your own value
1 / Owner gets FULL_CONTROL. No one else has access rights (default).
# "private"
```

- 1번 선택 (다른 옵션 확인 어려움)

```
Choose a number from
1 / None
# ""
```

- 1번 선택 (다른 옵션 확인 어려움)

```
1 / None
# ""
```

- 2번 선택 (스토리지 클래스에 맞게 선택)

```
2 / Standard storage class
# "STANDARD"
```

- No (추가 옵션 확인 어려움)

```
Edit advanced config? (y/n)
y) Yes
n) No (default)
y/n> n
```

- 입력 정보 확인 후 y 입력

```

Remote config
-----
[s3cylearncontents]
type = s3
provider = AWS
env_auth = false
access_key_id = AKIATT5UTW7ILJ5UNWEC
secret_access_key = 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
region = ap-northeast-2
location_constraint = ap-northeast-2
acl = private
storage_class = STANDARD
-----
y) Yes this is OK (default)
e) Edit this remote
d) Delete this remote
y/e/d) y_

```

■ S3 연결 구성 완료

```

Current remotes:

Name                Type
====                ==
s3cylearncontents  s3

```

4. Chocolately 설치

```

Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

```

```

PS C:\> Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))
Getting latest version of the Chocolatey package for download.
Getting Chocolatey from https://chocolatey.org/api/v2/package/chocolatey/0.10.15.
Downloading 7-Zip commandline tool prior to extraction.
Extracting C:\Users\ADMINI~1\AppData\Local\Temp\5\chocolatey\chocInstall\chocolatey.zip to C:\Users\ADMINI~1\AppData\Local\Temp\5\chocolatey\chocInstall...
Installing chocolatey on this machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.

Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when
upgrading from a version of Chocolatey less than 0.9.9.
'Batch file could not be found' is also safe to ignore.
'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\Administrator\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
first prior to using choco.
Ensuring chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder

```

5. WinFSP 설치

```

choco install winfsp -y

```

```

PS C:\wrc\clone> choco install winfsp -y
Chocolatey v0.10.15
Installing the following packages:
winfsp
By installing you accept licenses for the packages.
Progress: Downloading winfsp 1.7.20172... 100%

winfsp v1.7.20172 [Approved]
winfsp package files install completed. Performing other installation steps.
WARNING: No registry key found based on 'WinFsp*'
Installing winfsp...
winfsp has been installed.
winfsp may be able to be automatically uninstalled.
The install of winfsp was successful.
Software installed as 'msi', install location is likely default.

Chocolatey installed 1/1 packages.
See the log for details <C:\ProgramData\chocolatey\logs\chocolatey.log>.

```

6. 볼륨 마운트 (마운트 실행 사용자 권한으로 마운트되니 주의)

- BAT/VBS 파일 생성

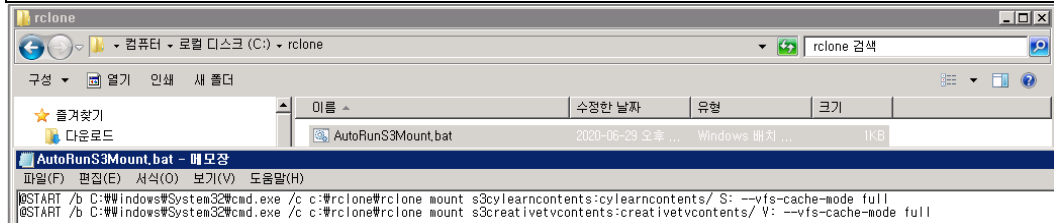
■ BAT 생성

```

@START /b C:\Windows\System32\cmd.exe /c c:\wrc\clone\wrc\clone mount
s3cylearncontents:cylearncontents/ S: --vfs-cache-mode full

C:\Windows\System32\cmd.exe /c 설치경로\wrc\clone mount 위설정한연결이름\버
킷명/ 볼륨명: --vfs-cache-mode full

```

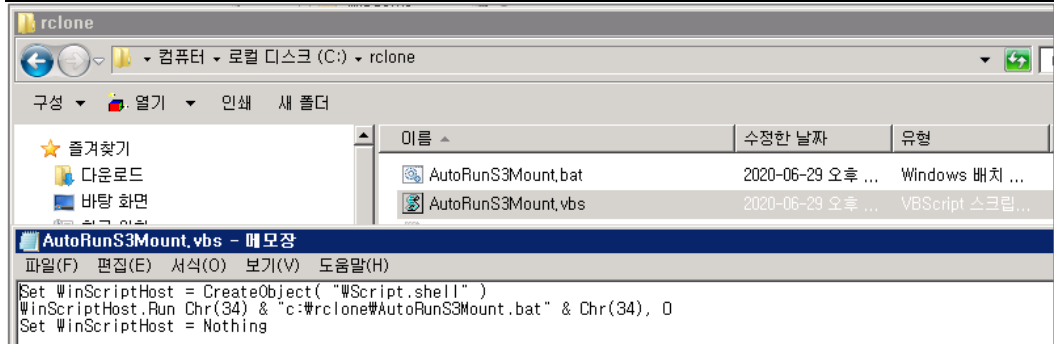


■ VBS 생성 (hide cmd 목적)

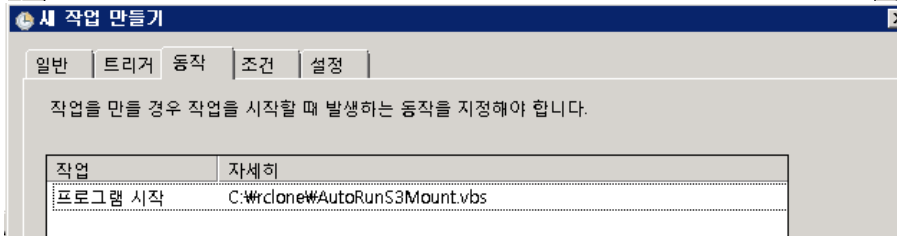
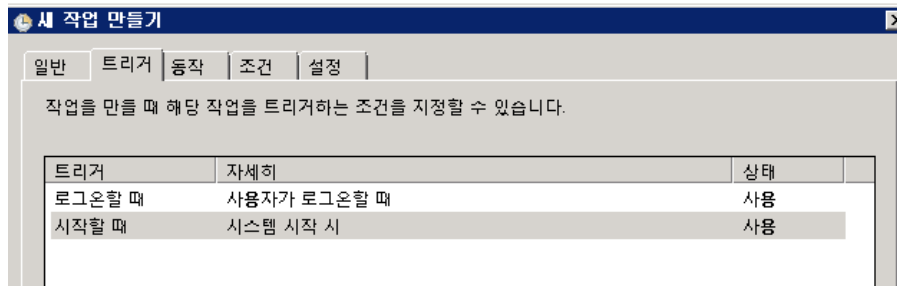
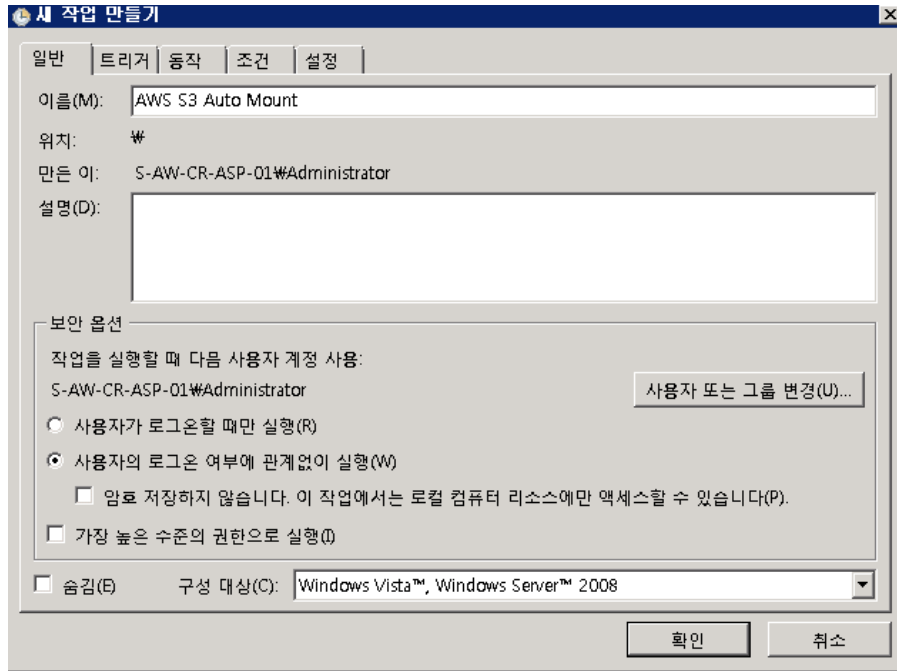
```

Set WinScriptHost = CreateObject( "WScript.shell" )
WinScriptHost.Run Chr(34) & "c:\wrc\clone\wrc\clone mount s3cylearncontents:cylearncontents/ S: --vfs-cache-mode full" & Chr(34), 0
Set WinScriptHost = Nothing

```



- 작업 스케줄러 등록



7. 볼륨 마운트 확인

gdr -PSProvider 'FileSystem'

```
PS C:\Users\Administrator> gdr -PSProvider 'FileSystem'
```

Name	Used <GB>	Free <GB>	Provider	Root	CurrentLocation
C:	41.86	38.14	FileSystem	C:\#	Users\Administrator
D:	140.53	59.47	FileSystem	D:\#	
S:		1048576.00	FileSystem	S:\#	
U:		1048576.00	FileSystem	U:\#	
V:	358.24	841.76	FileSystem	##172.20.71.240#creativetvnas	

