

의학과 빅데이터의 융합,  
의료계 새 희망을 찾다

주최



서울아산병원



Microsoft

후원



INTERVEST



SBCK  
SoftBank Group

서울아산병원과 한국마이크로소프트가 함께하는

의료 빅데이터 분석 컨테스트

## AzCopy 가이드

디에스이트레이드  
(DS-eTrade)

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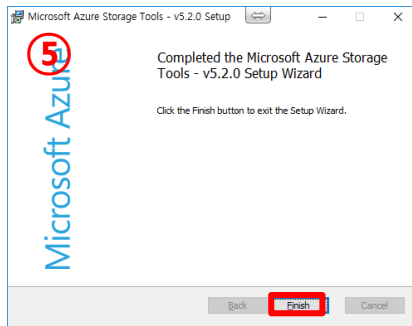
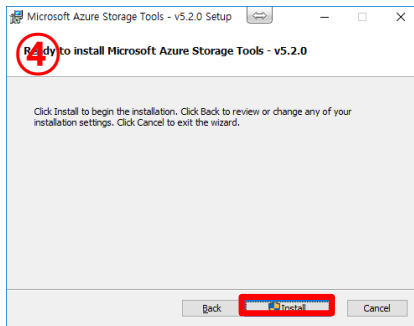
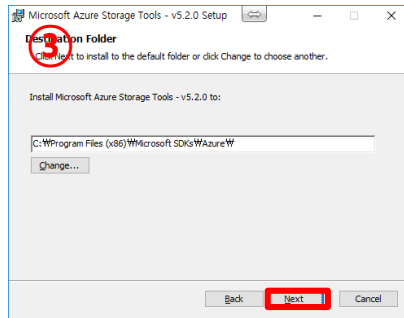
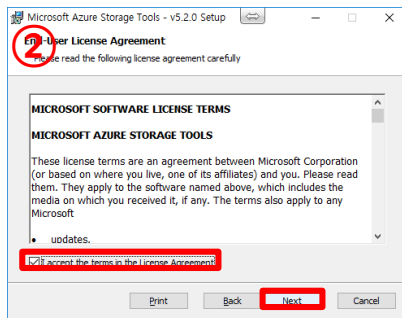
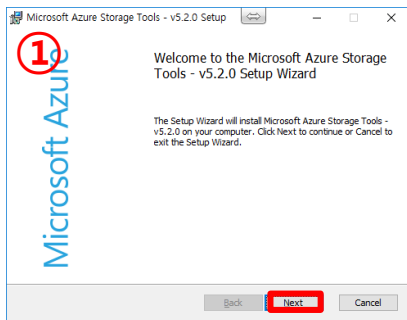
II. AzCopy 실행 방법

III. AzCopy upload

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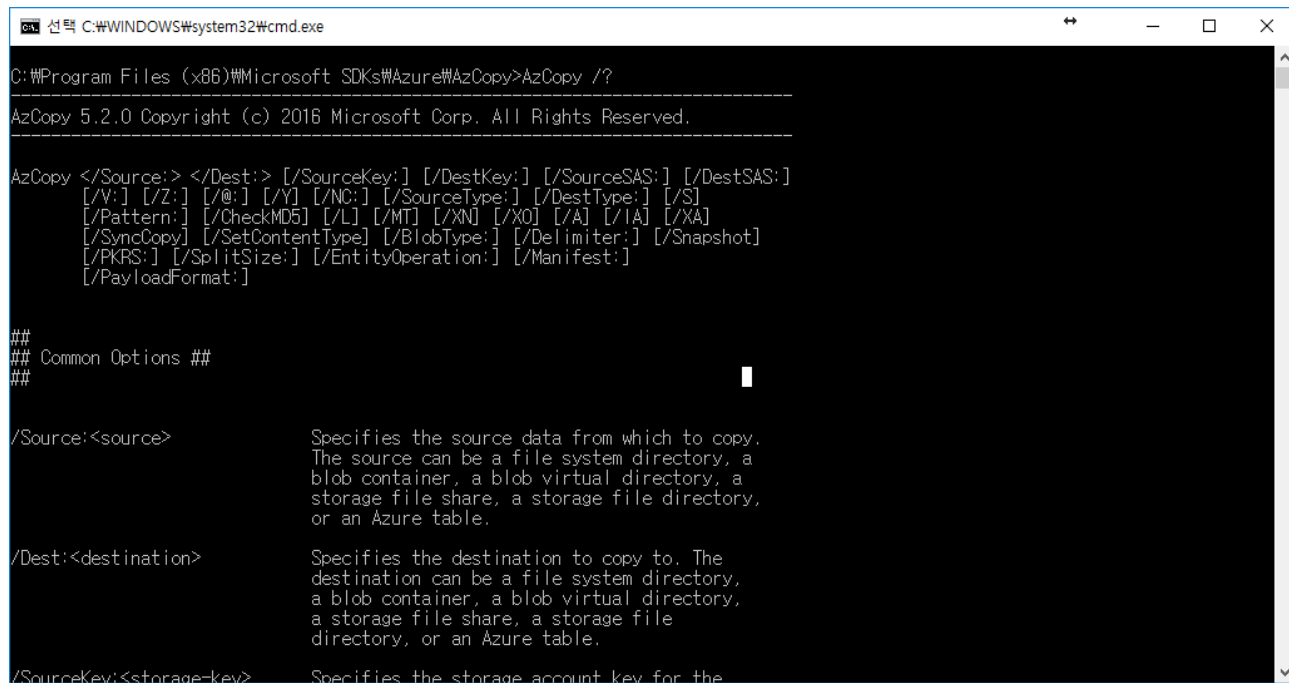
# I. AzCopy 설명 및 설치

- AzCopy는 간단한 명령과 최적의 성능으로 데이터를 Microsoft Azure Blob, 파일 및 테이블 저장소에(로부터) 복사하도록 디자인된 Windows 명령줄 유틸리티입니다.
- 저장소 계정 내에서는나 저장소 계정 사이에서 개체 간에 데이터 복사할 수 있습니다.
- AzCopy 다운로드 Url : <http://aka.ms/downloadazcopy>



## II. AzCopy 실행 방법

- 명령어 실행 방법
- 1. Windows key + r cmd 실행
- 2. 실행 경로 이동 : CD C:\Users\Wneoprizm>cd C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy



```
선택 C:\WINDOWS\system32\cmd.exe
C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy>AzCopy /?

AzCopy 5.2.0 Copyright (c) 2016 Microsoft Corp. All Rights Reserved.

-----
AzCopy </Source:> </Dest:> [/SourceKey:] [/DestKey:] [/SourceSAS:] [/DestSAS:]
[/V:] [/Z:] [/@:] [/Y] [/NC:] [/SourceType:] [/DestType:] [/S]
[/Pattern:] [/CheckMD5] [/L] [/MT] [/XN] [/XO] [/A] [/IA] [/XA]
[/SyncCopy] [/SetContentType] [/BlobType:] [/Delimiter:] [/Snapshot]
[/PKRS:] [/SplitSize:] [/EntityOperation:] [/Manifest:]
[/PayloadFormat:]

##
## Common Options ##
##

/Source:<source>           Specifies the source data from which to copy.
                           The source can be a file system directory, a
                           blob container, a blob virtual directory, a
                           storage file share, a storage file directory,
                           or an Azure table.

/Dest:<destination>        Specifies the destination to copy to. The
                           destination can be a file system directory,
                           a blob container, a blob virtual directory,
                           a storage file share, a storage file
                           directory, or an Azure table.

/SourceKey:<storage-key>   Specifies the storage account key for the
```

### Ⅲ. AzCopy upload

- AzCopy의 기본 구문

```
AzCopy /Source:<source> /Dest:<destination> /DestKey:<Access Key> [Options]
```

- Upload : AzCopy를 통한 File Storage (대용량 파일 업로드에 적합)  
/NC : 동시 작업을 통해서 빠르게 업로드 가능 (최대값 : 512 )  
업로드 작업중 중단되면 이어서 올리기 가능

```
AzCopy /Source:<source path> /Dest:<destination path> /DestKey:[Access Key] /Pattern:[upload file name] /NC:[동시작업 개수]
```

- Ex ) Storage name : amccontestdsetradediag  
Access Key : MXAw91GWf6UfjsQ+yhNvnYQSAis9vQ==  
upload file : E:WSETUPWSETUP\_file.zip

명령어 줄 :

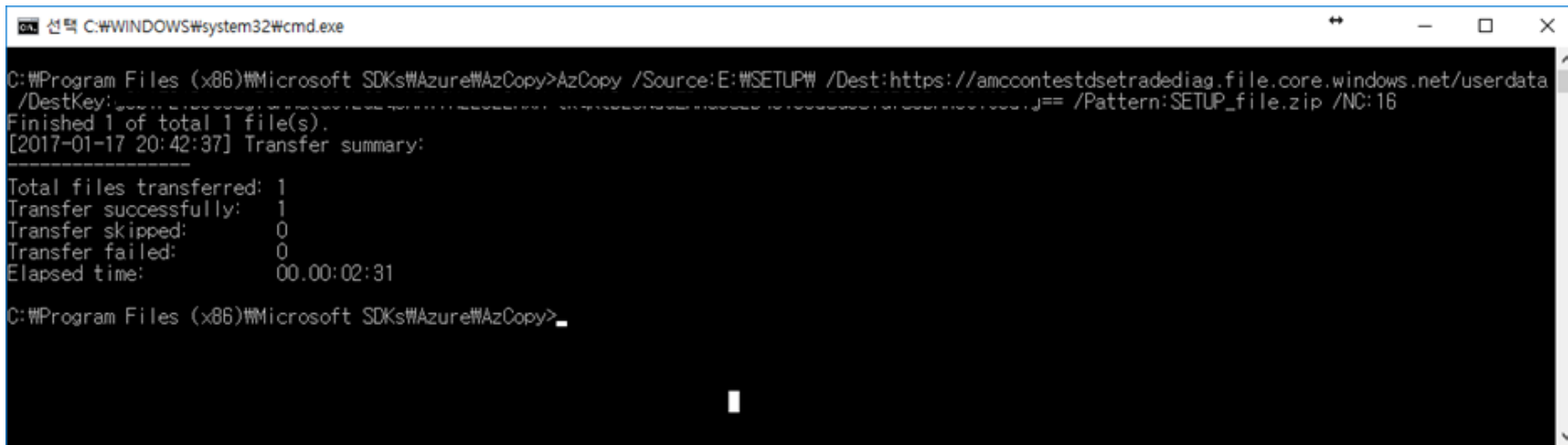
```
AzCopy /Source:E:\SETUP\ /Dest:https://amccontestdsetradediag.file.core.windows.net/userdata  
/DestKey:MXAw91GWf6UfjsQ+yhNvnYQSAis9vQ== /Pattern:SETUP_file.zip /NC:16
```

- 동일한 파일 업로드 연속해서 upload여부 확인 (Y 입력)

Incomplete operation with same command line detected at the journal directory "C:\Users\neoprizm\AppData\Local\Microsoft\Azure\AzCopy",  
do you want to resume the operation? Choose Yes to resume, choose No to overwrite the journal to start a new operation. (Yes/No) Y

### Ⅲ. AzCopy upload

- EX) 실행 화면
  - 1.64GB파일 업로드 시간 2분 31초 (100MBbps 환경)



```
C:\WINDOWS\system32\cmd.exe

C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy>AzCopy /Source:E:\SETUP\ /Dest:https://amcocontestdsetradediag.file.core.windows.net/userdata /DestKey:00000000-00000000-00000000-00000000-00000000-00000000-00000000-00000000.j== /Pattern:SETUP_file.zip /NC:16
Finished 1 of total 1 file(s).
[2017-01-17 20:42:37] Transfer summary:
-----
Total files transferred: 1
Transfer successfully: 1
Transfer skipped: 0
Transfer failed: 0
Elapsed time: 00.00:02:31

C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy>_
```

## IV. AzCopy download

- AzCopy의 기본 구문 – upload의 source와 destination을 반대로 설정

```
AzCopy /Source:<source> /Dest:<destination> /SourceKey:<Access Key> [Options]
```

- Download : AzCopy를 통한 File Storage 의 파일 또는 디렉토리를 다운로드  
/S : 폴더 또는 다중 파일 다운로드시 설정, /Pattern 옵션과 동시 사용하면 에러 발생함
- 단일 파일 다운로드

```
AzCopy /Source:<source path> /Dest:<destination path> /SourceKey:[Access Key] /Pattern:[upload file name]
```

- 모든 파일 다운로드

```
AzCopy /Source:<source path> /Dest:<destination path> /SourceKey:[Access Key] /S
```

- Ex 1 ) Storage name : amctestdsetradediag  
Azure File Storage userdata의 SETUP\_file.zip파일을 E:WSETUPW 디렉토리로 다운로드  
- Access Key : MXAw91GWf6UfjsQ+yhNvnYQSAis9vQ==  
- download file : SETUP\_file.zip

명령어 줄 :

```
AzCopy /Source:E:\SETUP\ /Dest: https://amctestdsetradediag.file.core.windows.net/userdata/  
/SourceKey:MXAw91GWf6UfjsQ+yhNvnYQSAis9vQ== /Pattern:SETUP_file.zip
```

- [illegible]



## IV. AzCopy download

- Ex 2 ) Storage name : amctestdsetradediag

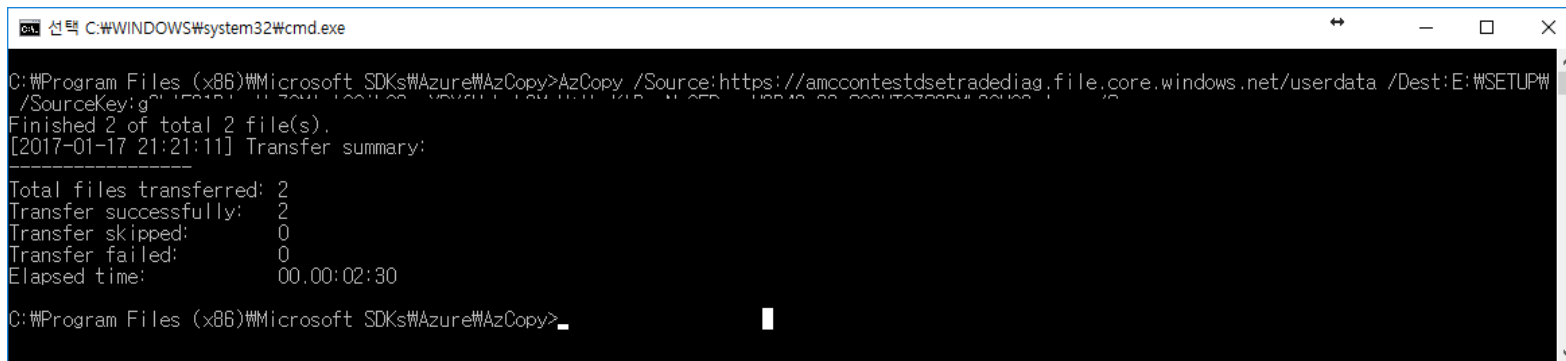
Azure File Storage userdata의 모든 파일을 E:\SETUPW 디렉토리로 다운로드

- Access Key : MXAw91GWf6UfjsQ+yhNvnYQSAis9vQ==
- download file : ALL FILE

명령어 줄 :

```
AzCopy /Source:E:\SETUPW\ /Dest: https://amctestdsetradediag.file.core.windows.net/userdata/  
/SourceKey:MXAw91GWf6UfjsQ+yhNvnYQSAis9vQ== /S
```

- EX 2) 다중 파일 다운로드 실행 화면 - - userdata의 파일2개 다운로드 시간 2분 30초 (100MBbps 환경)



```
선택 C:\WINDOWS\system32\cmd.exe  
C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy>AzCopy /Source:https://amctestdsetradediag.file.core.windows.net/userdata /Dest:E:\SETUPW  
/SourceKey:g...  
Finished 2 of total 2 file(s).  
[2017-01-17 21:21:11] Transfer summary:  
-----  
Total files transferred: 2  
Transfer successfully: 2  
Transfer skipped: 0  
Transfer failed: 0  
Elapsed time: 00:00:02:30  
C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy>_
```