

Lab. AWS S3 Bucket 생성 및 데이터 저장

1. S3 Bucket 생성

2. AWS CLI를 사용해 Bucket List 출력하기

1) Windows Command 창에서 AWS Access Key ID & AWS Secret Access Key 입력

```
C:\WINDOWS\system32>aws configure
AWS Access Key ID [*****]: [REDACTED]
AWS Secret Access Key [*****]: [REDACTED]
Default region name [ap-northeast-2a]: ap-northeast-2
Default output format [JSON]: json
```

2) S3 Bucket List 출력

```
C:\WINDOWS\system32>aws s3 ls /
2023-03-13 15:44:44 mk-datalake-bucket
```

3. Lab에서 사용할 Public DataSet 확인

1) [Open Data on AWS]에서 [New York City Taxi and Limousine Commission (TLC) Trip Record Data]의

[AWS CLI Access]의 값 확인 https://aws.amazon.com/marketplace/pp/prodview-okyonroog5b2u?sr=0-1&ref_=beagle&applicationId=AWSMPContessa#usage

```
AWS CLI Access
aws s3 ls s3://nyc-tlc/
```

2) Windows Command에서

```
C:\WINDOWS\system32>aws s3 ls s3://nyc-tlc/
PRE csv_backup/
PRE misc/
PRE trip data/
```

3) Object들 중에서 "trip data" 검색

```
C:\WINDOWS\system32>aws s3 ls s3://nyc-tlc/"trip data"/
```

4) 검색 결과 중 "2022-11" 필터하기

```
C:\WINDOWS\system32>aws s3 ls s3://nyc-tlc/"trip data"/ | findstr "2022-11"
2022-11-14 22:49:35 11851834 fhv_tripdata_2022-07.parquet
2022-11-14 22:49:40 11826775 fhv_tripdata_2022-08.parquet
2023-01-26 01:43:42 11298968 fhv_tripdata_2022-11.parquet
2022-11-14 22:49:28 443730405 fhvhv_tripdata_2022-07.parquet
2022-11-14 22:49:28 436536084 fhvhv_tripdata_2022-08.parquet
2023-01-26 01:43:40 464298215 fhvhv_tripdata_2022-11.parquet
2022-11-14 22:49:31 1312353 green_tripdata_2022-07.parquet
2022-11-14 22:49:31 1346660 green_tripdata_2022-08.parquet
2023-01-26 01:43:41 1270324 green_tripdata_2022-11.parquet
2022-11-14 22:49:29 49367712 yellow_tripdata_2022-07.parquet
2022-11-14 22:49:29 49717159 yellow_tripdata_2022-08.parquet
2023-01-26 01:43:40 50106631 yellow_tripdata_2022-11.parquet
```

4. "trip-data"의 데이터를 위에서 생성한 나의 Bucket으로 복사하기

1) "trip-data"의 green_tripdata_2022-11.parquet을 위에서 생성한 나의 Bucket으로 복사하기

```
C:\WINDOWS\system32>aws s3 cp s3://nyc-tlc/"trip data"/green_tripdata_2022-11.parquet
s3://mk-datalake-bucket/input/green_tripdata_2022-11.parquet
copy: s3://nyc-tlc/trip data/green_tripdata_2022-11.parquet to s3://mk-datalake-bucket
/input/green_tripdata_2022-11.parquet
```

2) "trip-data"의 yellow_tripdata_2022-11.parquet을 위에서 생성한 나의 Bucket으로 복사하기

```
C:\WINDOWS\system32>aws s3 cp s3://nyc-tlc/"trip_data"/yellow_tripdata_2022-11.parquet s3://mk-datalake-bucket/input/yellow_tripdata_2022-11.parquet
copy: s3://nyc-tlc/trip_data/yellow_tripdata_2022-11.parquet to s3://mk-datalake-bucket/input/yellow_tripdata_2022-11.parquet
```

5. Local Machine에 CSV 파일 다운로드 하여 Head 확인하기

1) [New York City Taxi and Limousine Commission (TLC) Trip Record Data]의 CSV 파일 목록 확인

```
C:\Users\minky>aws s3 ls s3://nyc-tlc/csv_backup/
```

2) 특정 CSV 파일 다운로드

```
C:\Users\minky>aws s3 cp s3://nyc-tlc/csv_backup/yellow_tripdata_2022-02.csv ..
```

3) CSV 파일 앞부분 확인

```
C:\Users\minky>more yellow_tripdata_2022-02.csv
```

```
VendorID,tpep_pickup_datetime,tpep_dropoff_datetime,passenger_count,trip_distance,RatecodeID,store_and_fwd_flag,PULocationID,DOLocationID,payment_type,fare_amount,extra,mta_tax,tip_amount,tolls_amount,improvement_surcharge,total_amount,congestion_surcharge
1,2022-02-01 00:06:58,2022-02-01 00:19:24,1,0,5.4,1.0,N,138,252,1,17,0,1,75,0,5,3.9,0,0,0,3,23,45,0,0
1,2022-02-01 00:38:22,2022-02-01 00:55:55,1,0,6.4,1,0,N,138,41,2,21,0,1,75,0,5,0,0,6.55,0,3,30,1,0,0
1,2022-02-01 00:03:20,2022-02-01 00:26:59,1,0,12.5,1,0,N,138,200,2,35.5,1,75,0,5,0,0,6.55,0,3,44,6,0,0
2,2022-02-01 00:08:00,2022-02-01 00:28:05,1,0,9.88,1,0,N,239,200,2,28,0,0,5,0,0,3,0,0,3,34,8,2,5
```