**AWS** 

# 1 REPORT

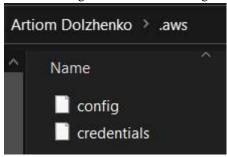
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# TASK 1 Establish connection to AWS account:

- a. All settings were set before realizing that it's part of a home task. So, you have to believe that all is set correctly, otherwise it wouldn't work.
- b. Keys were generated.
- c. Config and credentials were generated automatically using "aws configure" in CMD.



d. As shown below i have a python script that is generating tokens based on my key and mfa code.

```
import boto3
import confignarser
import sys

prm_profile = 'default|'_# profile with your user credentials (they are <u>used to retrieve</u> temp creds)

prm_tempprofile = 'epam_lab_mfa'_# profile where to record temp credentials to prm_credfile = 'C:/Users/Artiom_Dolzhenko/.aws/credentials'_# filename where profile creds are stored prm_user_arn = 'arn:aws:iams::260586643565:mfa/artiom_dolzhenko@epam.com'_# your user arn prm_token_code = sys.argv[1]_# token_code from your MFA device

# uses credentials to get temporary token info

def get_token(profile_name:str, user_arn:str, token_code:str):

try:

session = boto3.session.Session(profile_name=profile_name)
    client = session.client('sts')
    response = client.get_session_token(SerialNumber=user_arn_TokenCode=token_code)
```

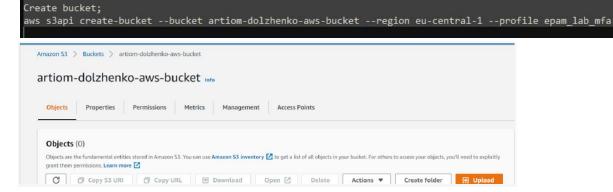
But it's annoying to write "python <script\_name> <mfa\_code> in cmd every single time, so I had to implement a ".bat" file that accepts mfa code and starts a script using that code.

After that, all is running

```
Give me a token for Epam Lab account host: 896974
896974
('Accesskey'i': 'ASIATA BURBURDYPF70', 'SecretAccesskey': 'iV0817/8]nUB5955rHod/PpuleYapqLa26GPVaTMd', 'SessionToken': 'IQ0JB3]pZ2JUXZVJEEGaCXYZLMMhc3QUBSIDEYCIODAkKMMK4/93msawkxlRro2vf4Lkrb
xig55ygV324ThiAMHf272F8711013ic565qpwid4ePlusomev0613d1BscaZxvgBCUBP///////wCQ8GPWYTWHTg2BiQADTVIIgm8Qy3xPBp7qH13B18qzAHes1LU14W27BVJMh63QdVATXMBF598T5/1zuk73VdE18ytLhTq1xfKxxxl892j2HQADTVIIgm8Qy3xPBp7qH13B18qzAHes1LU14W27BVJMh63QdVATXMBF598T5/1zuk73VdE18ytLhTq1xfKxxxl892j2HQADTVIIgm8Qy3xPBp7qH13B18qzAHes1LU14W27BVJMh63QdVATXMBF598T5/1zuk73VdE18ytLhTq1xfKxxxl892j2HQADTVIIgm8Qy3xPBp7qH13B18qzAHes1LU14W27BPABSADCXXXL89ADTVIIgm8Qy3xPS74U5AmHf03QdVATXMBF60XGVX-Mh63QdVATAMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XGVX-Mh63QdVATXMBF60XG
```

The next step is to create bucket in s3

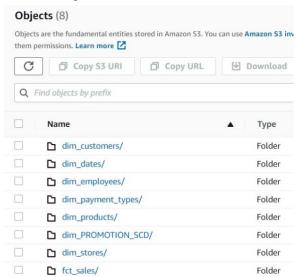
The task was done using this command



#### Files were uploaded to bucket via cmd



## Now it's all uploaded to cloud



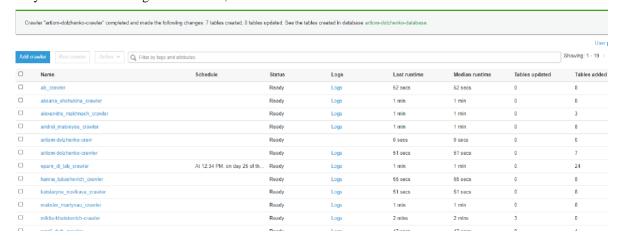
After uploading files I counted rows to see if the amount data in fct\_sales was correct. It was made in S3

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	on S3 Select supports only the SELECT SQL command. Using the S3 console, you can extract up to 40 MB of records from an object that is up to 128 records, use the AWS CLI, AWS SDK, or Amazon S3 REST API. For more complex SQL queries, use Amazon Athena
Α	dd SQL from templates Run SQL query
	* To create reference point for writing SQL queries, you can display the first 5 records of input data by running the following the first 5 records of input data by running the following the following the first 5 records of input data by running the following the first 5 records of input data by running the following the first 5 records of input data by running the following the first 5 records of input data by running the following
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Stati Stati Stati	results are not available after you choose Close or navigate away. Choose Download results to download a copy of the following query results.  IS  Luccessfully returned 1 record in 4001 ms

## Crawler:

In my case crawler settings were default, because of clean csv files.



I faced a problem with query running. The reason was that I forgot to rerun crawler after adding missing tables.

SYNTAX\_ERROR: line 1:8: Column 'store' cannot be resolved

This query ran against the "artiom-dolzhenko-database" database, unless qualified by the query. Please post the error message on our forum or contact customer support with Query Id: 1ed27765-315b-43d2-abda-2e7e8406aaaa

Finally i wrote a query in athena as you can see it actually works.

