



BVL Market data Feed - API

Dear **FERREYCORP**,

We present to you the two services you are requesting to hire and their descriptions

1. API Access Conditions

1.1. Definitions:

- 1.1.1. APIs will manage by default the authorization by **Cognito**, through **OAuth 2.0**.
- 1.1.2. Client IPs must be set in the **WAF** white list, previously set in **API Gateway**.
- 1.1.3. APIs are set by default with a **Use Plan** that allows up to 3000 requests per day, this means that starting in request 3001, **API** will return a HTTP 429 error (Too Many Request).

1.2. Auth 2.0

This is the protocol that allows authorization flow for **LA BOLSA**'s APIs.

1.2.1. Token request – Access to protected resources

1.2.1.1. *Mandatory Parameters*

Parameters	Description
client_id	It specifies the client identifier which is set in AWS Cognito. The value of this parameter will be supplied by Group BVL to external institutions.
client_secret	It specifies the key registered related to the client identifier. The value of this parameter will be supplied by Grupo BVL to external institutions.
grant_type	It specifies the type of access according to the set concession flow, in this case, the value must be: client_credentials

1.2.1.2. *Request example (POSTMAN Software):*

<https://api.bvl.com.pe/oauth2/token>

1.2.1.3. *The method to make a request is **POST**, for testing a request, it may be through direct consumption:*

KEY	VALUE
client_id	1[redacted]v5a4
client_secret	[redacted]11r6f
grant_type	client_credentials

1.2.1.4. Or through own Authorization of software

GET NEW ACCESS TOKEN

Token Name: Authorization

Grant Type: Client Credentials

Access Token URL: [redacted]

Client ID: [redacted]

Client Secret: [redacted]

Scope: e.g. read:org

Client Authentication: Send as Basic Auth header

Buttons: Cancel, Request Token

1.2.2. Answer to token request

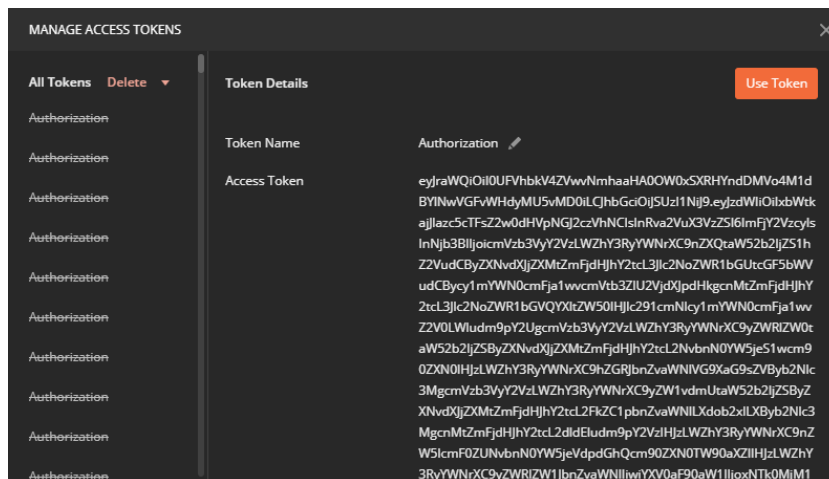
1.2.2.1. Correct answer

Parameters	Description
access_token	Access Token requested
expires_in	It shows the token valid time in seconds
token_type	It shows the token type, the value will be Bearer

1.2.2.2. Direct Consumption



1.2.2.3. Manager



1.2.3. Prompt for the resource protected

1.2.3.1. After getting the token, set the headers (Headers) of the request:

Parameters prompt	Description
Authorization	Bearer token
Content-Type	application/json
x-api-key	Api Key is sent and it is supplied by Grupo BVL to external institutions.



2. API Consumption – Key Facts

2.1. Deferred time API (FERREYC1): The deferred time api shows market data of the FERREYC1 stock with 20 minutes delay

2.1.1. Query parameters

KEY	VALUE
ticker	Company ticker

2.1.2. Response Information

Value	Description
statusCode	HTTP Code
body	Message body
ticker	Ticker name
issuer_name	Issuer name
isin	ISIN
last_date_time	Last date time
previous_date	Previous date
buy	Buy price
sell	Sell price
last	Last price
high	High price
low	Low price
open	Open price
previous	Previous price
volume	Volume
traded_amount_pen	Traded amount in PEN
traded_amount	Traded amount in Original Currency
number_trades	Number of trades in the day
percentage_change	Change in percentage
currency	Currency
segment	Segment of negotiation in BVL



2.2. Historical data API (FERREYC1): The historical data api shows information about the historical share price of FERREYC1 since 2016

2.2.1. Query parameters

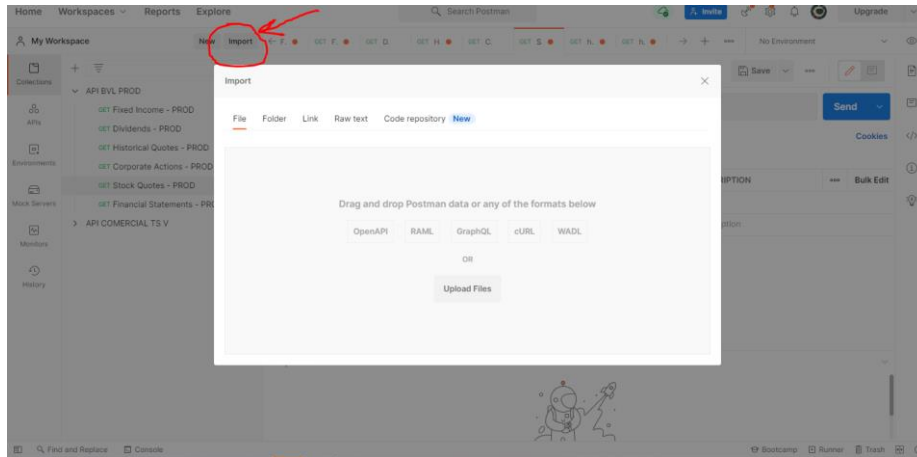
KEY	VALUE
ticker	Company ticker
start-date	Start date
end-date	End date

2.2.2. Response Information

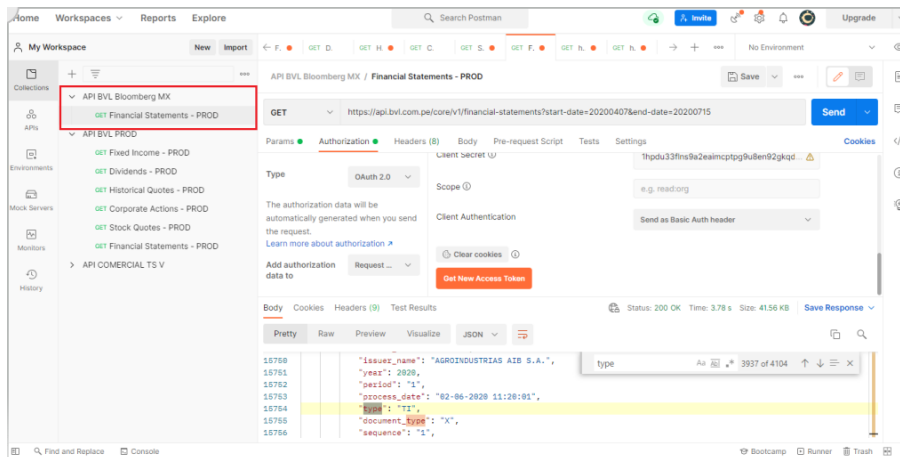
Value	Description
statusCode	HTTP Code
body	Message body
ticker	Ticker name
date	Issuer name
open	Open price of the day
close	Close price of the day
high	High price of the day
low	Low price of the day
average	Average price of the day
volume	Volume
traded_amount_pen	Traded amount in PEN
traded_amount_usd	Traded amount in original currency
previous_close	Previous Close level
currency	Currency

3. Steps to consume the API in Postman

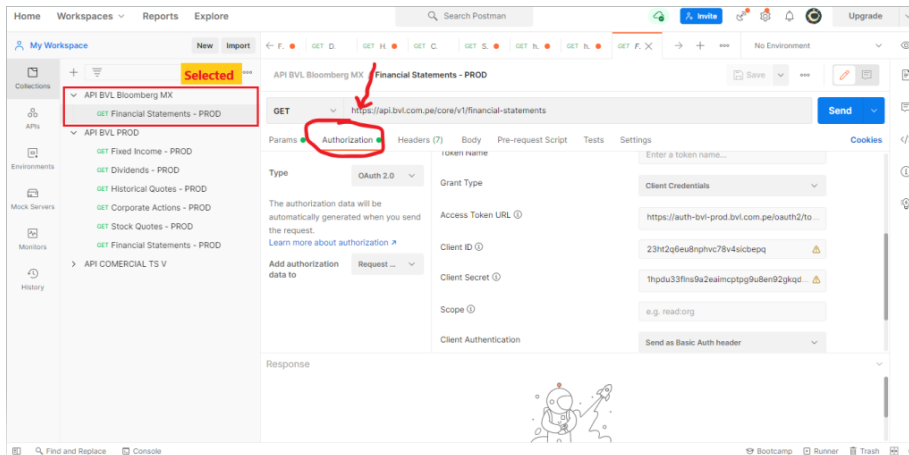
3.1. Import the JSON file



3.2. Select the file and confirm the import to Postman

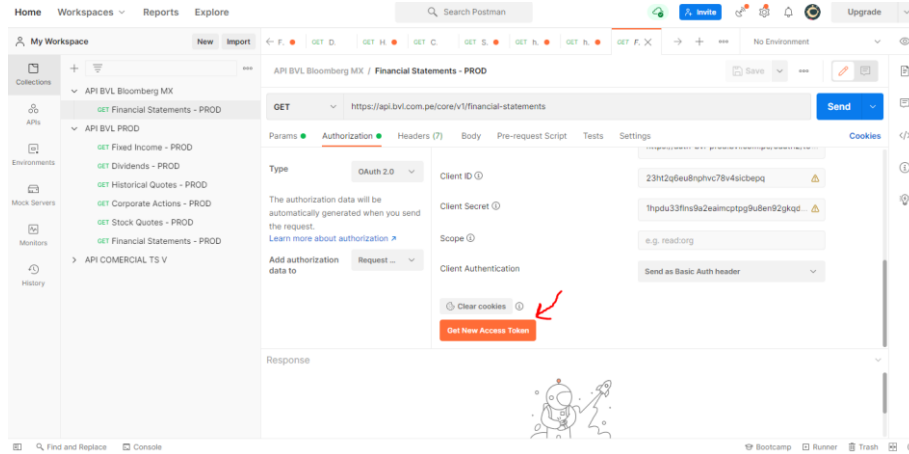


3.3. Select the file and get the token in the authorization tab

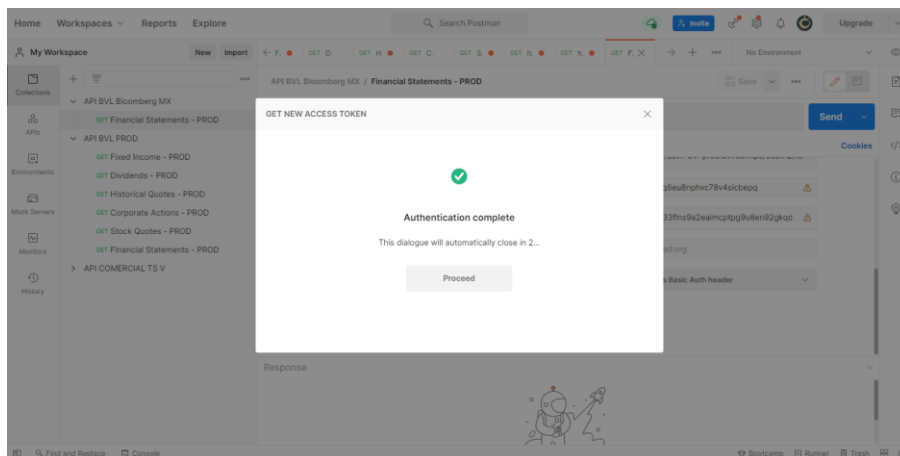




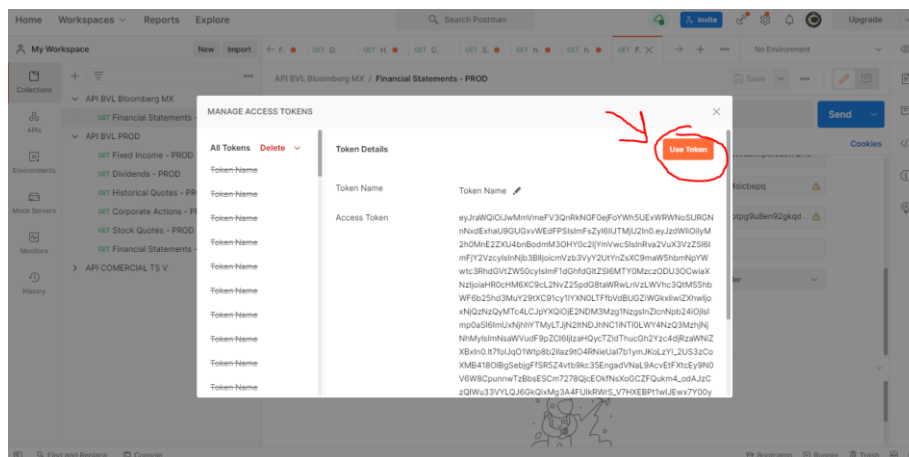
3.4. Scroll down in the Authorization tab until you find the option **Get New Access Token**



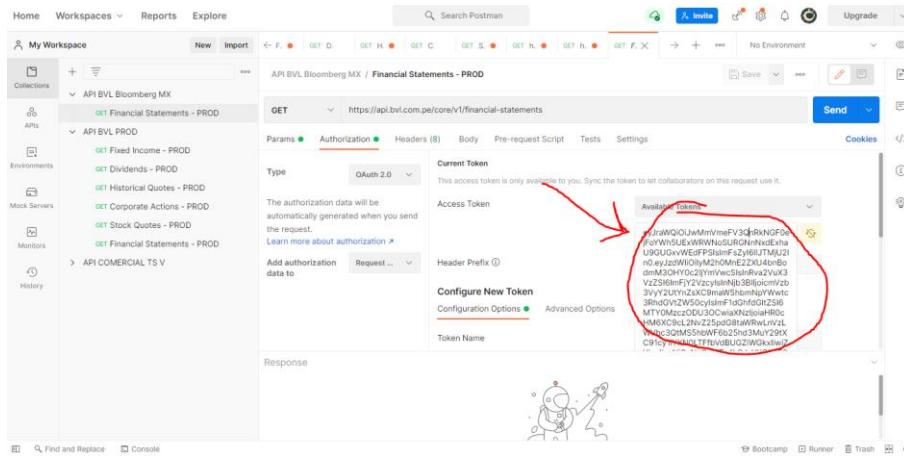
3.5. Click in Proceed or wait 5 seconds for generate a token



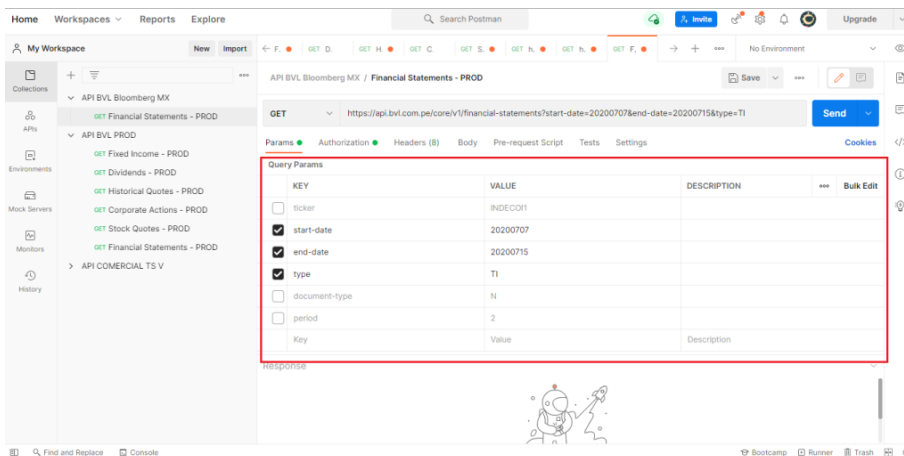
3.6. Select "Use Token"



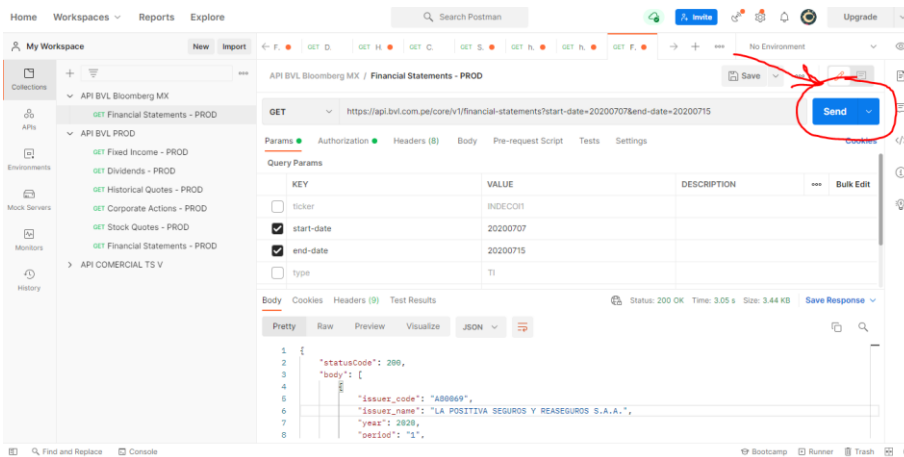
3.7. The token will be added automatically



3.8. Select the **Params** tab and fill in the parameters based on what you want to obtain (company, dates, type of documents).

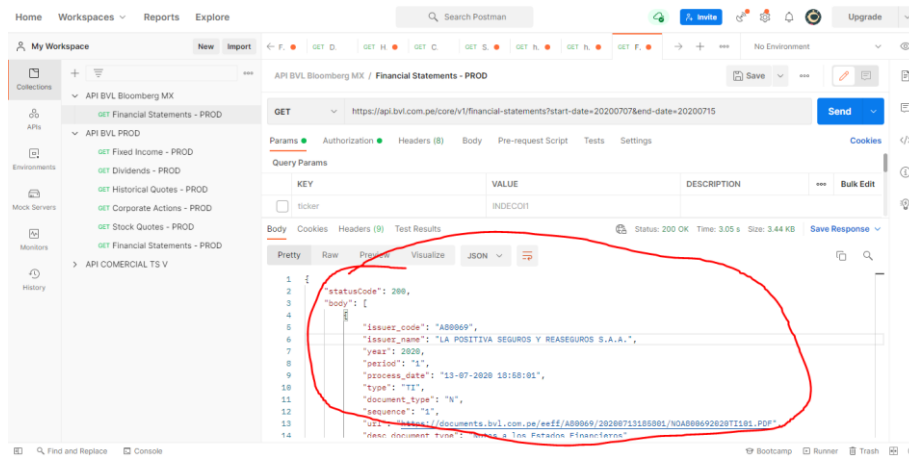


3.9. Once the parameters are filled in, select send to query the information and the answer will be displayed at the bottom of the parameters.





3.10. Check the response information



3.11. To get another answer you only need to change the Query params

Notes:

- a) If you don't fill the **ticker** param in the **STOCK QUOTE API**: The API shows the error message
- b) All free tier API's have a maximum rate of 150 requests per day.
- c) All free tier API's have a maximum rate of 10 requests per second.



4. Appendix

4.1. Appendix 1: Credentials

Cliente	FERREYCORP
Client_ID	2juaq4tra6rn875a1fm798mb8
Client_Secret	a799vh29n6237qdf72v72evmc39lrp7s3c8n3j5roa0plefm1l
API-key	mthPASCeb75ln0parGCwWw4tNHNlzzD4iDQGnLVh
Scope	Tiempo Diferido (FERREYC1) + Historico (FERREYC1)