## PostMan Setup for Rest API:

1. For Rest APIs we cannot use url with direct server access like www4.ipg-online.com. We need to use urls like below

**URL**

Sale Transaction: ss

<https://cert.api.firstdata.com/gateway/v2/payments/>

Return / Void transaction:

[https://cert.api.firstdata.com/gateway/v2/orders/{orderId}](https://prod.api.firstdata.com/gateway/v2/orders/%7borderId%7d)

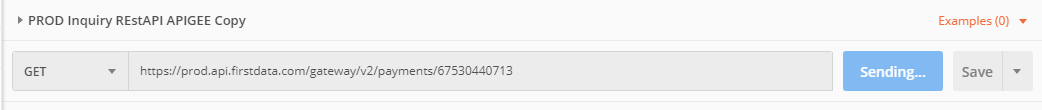
OR

[https://cert.api.firstdata.com/gateway/v2/payments/{ipgTransactionId}](https://prod.api.firstdata.com/gateway/v2/payments/%7bipgTransactionId%7d)

Inquiry:

[https://cert.api.firstdata.com/gateway/v2/payments/{ipgTransactionId}](https://prod.api.firstdata.com/gateway/v2/payments/%7bipgTransactionId%7d)

**Inquiry is a get transaction**



1. **No need to any certificates and user data in Authorization tab**.
2. Below script is to be added in the Pre-request Script

***var key = 'H9H5W2GBoPIJob5TprjQl8AQ3uLhlZON';***

***var secret = 'vYiGqMYYzIRMCG9C';***

*var ClientRequestId = Math.floor((Math.random() \* 10000000) + 1);*

*var time = new Date().getTime();*

*var method = request.method;*

*var requestBody = request.data;*

*var rawSignature = key + ClientRequestId + time + requestBody;*

*var computedHash = CryptoJS.algo.HMAC.create(CryptoJS.algo.SHA256, secret.toString());*

*computedHash.update(rawSignature);*

*computedHash = computedHash.finalize();*

*//var computedHmac = b64encode(computedHash.toString());*

*var computedHmac = CryptoJS.enc.Base64.stringify(computedHash);*

*postman.setEnvironmentVariable('key', key);*

*postman.setEnvironmentVariable('time', time);*

*postman.setEnvironmentVariable('signature', computedHmac);*

*postman.setEnvironmentVariable('ClientRequestId', ClientRequestId)*

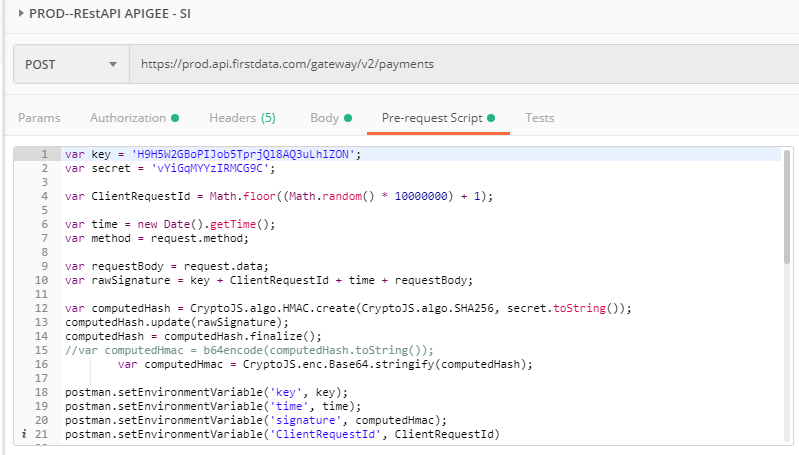
This script calculates hash value based on 5 parameters

* key -- Key and secret is obtained from APIGEE team when onboarding.
* Secret- obtained from APIGEE team when onboarding.
* ClientRequestId – Random Number
* time -- Timestam. A request is valid for 5 mins i.e. A request with timestamp older than 5 mins cannot be used for any call to service.
* requestBody – Json payload having all information.

**Note: In case of GET requests (e.g. Inquiry) there would be no payload/request. Hence need to replace the hightled line by**

*var rawSignature = key + ClientRequestId + time + requestBody;*

*var rawSignature = key + ClientRequestId + time;*



1. Headers needed are:

Content-Type:application/json

Client-Request-Id:{{ClientRequestId}}

Api-Key:{{key}}

Timestamp:{{time}}

Message-Signature:{{signature}}

For these we need to have environment varaibles need to be added in postman

Graphical user interface, application

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence



Use the bulk edit option and copy past the above headers in one go.