SANDBOX SECURITY DOCUMENTATION

Test Accounts

Customer number and password is required to call our APIs. Using the data below, you can get authorized and start exploring.

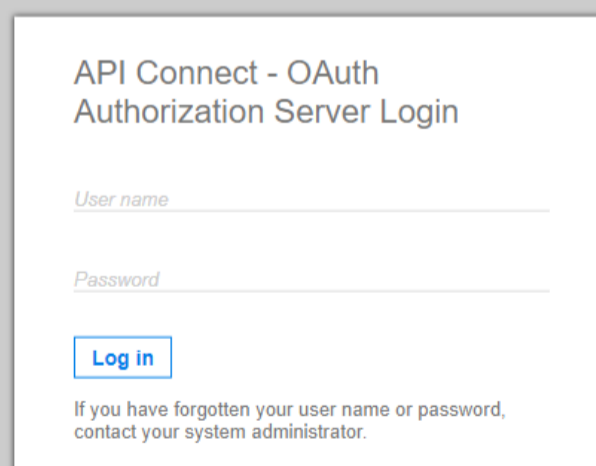| Customer #	Password
999999904	TestS1n!
999999905	TestS2n!

Authorization Code

In order to use İşbank APIs, you require access token for each request. Access token can be acquired by using our authorization API. First, you must get your authorization code. There are two ways to obtain the code. One option is to use sandbox login form with your customer number and password, the other one is by making a GET request to the related API with required credentials.

Sandbox Login Form

Using the link below, you can access our login form. {client_id} needs to be replaced with the Client Id of the application you created and {redirect_url} value should be the same URL that your application contains. You can leave the response type and scope parameters as it is.

```
https://api.sandbox.isbank.com.tr/v1/sandbox/oauth2/authorize?
response_type=code&scope=api&client_id=CLIENT_ID&redirect_uri=REDIRECT_URI
```

Once you enter your credentials on the form you will be redirected to the page that you described on the link with redirect url parameter. Redirected page contains a query parameter named code which you will use to get your access token later.
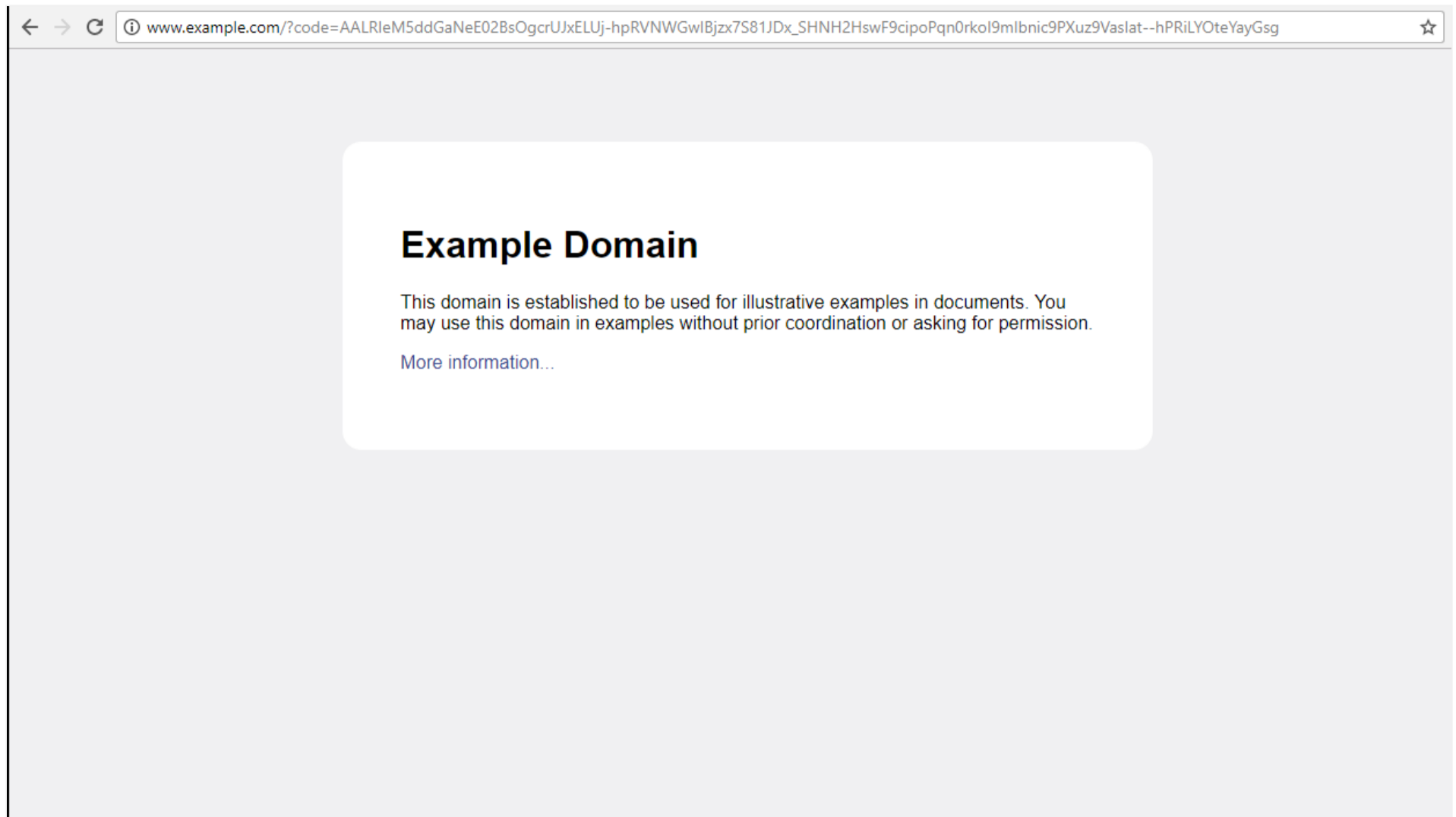
Authorization API Request

Other way to get your authorization code is making a simple get request to the authorization API. Similar to the login form, you need to fill your credentials in the request URL. {client_id} needs to be replaced with the Client Id of the application you created and {redirect_url} value should be the same URL that your application contains. You can leave the response type and scope parameters as it is. You also need to give an Authorization parameter in the header in order to authenticate with your customer number and password. This value can be created using following script on the Pre Request Script tab on the postman.
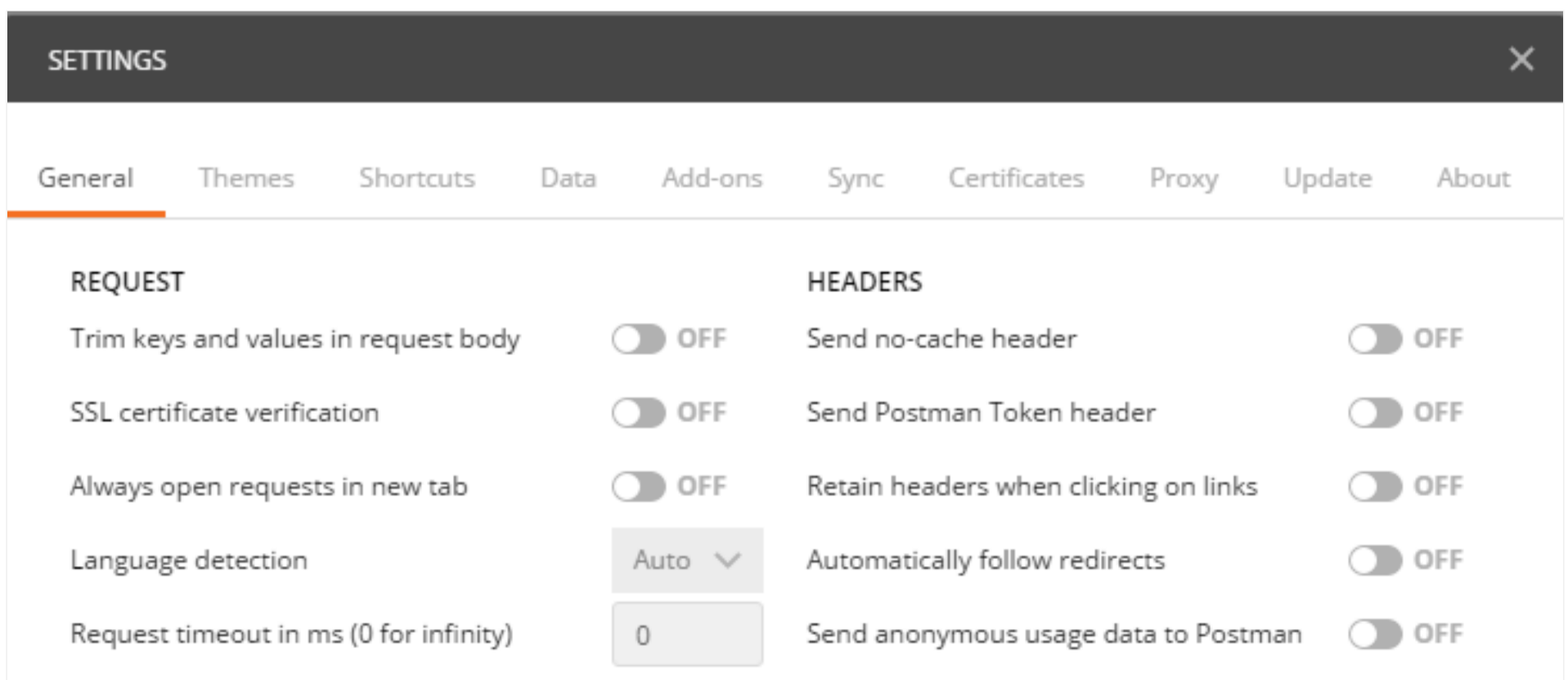
```
postman.setEnvironmentVariable('Authorization_auth_code_value',btoa({customer_number}+":"+{password}"));
```

{customer_number} parameter expected to contain one of the specified customer number. You can give any value to password since this is sandbox environment. Important part is the ':' sign between the values. Created string then converted to Base64 format and set the Authorization_auth_code_value parameter. You will use this value in the header parameters.

Now you are ready to make your GET request using the url below.

```
https://api.sandbox.isbank.com.tr/v1/sandbox/oauth2/authorize?
response_type=code&scope=api&client_id=CLIENT_ID&redirect_uri=REDIRECT_URI
```

NOTE: You must disable the "Automatically follow redirects" option in the postman settings in order to catch the response.

| GET ∨ | https://api.sandbox.isbank.com.tr/v1/sandbox/oauth2/authorize?client_id={{client_id}}&response_type=... | Params | **Send** ∨ | Save ∨ |

Authorization   Headers (1)   Body   Pre-request Script ●   Tests ●   Cookies Code

	Key	Value	Description	•••	Bulk Edit Presets ▾
☑	Authorization	Basic {{Authorization_auth_code_value}}			

| GET ∨ | https://api.sandbox.isbank.com.tr/v1/sandbox/oauth2/authorize?client_id={{client_id}}&response_type=... | Params | **Send** ∨ | Save ∨ |

Authorization   Headers (1)   Body   Pre-request Script ●   Tests ●   Cookies Code

```
1  var customer_number = postman.getEnvironmentVariable("customer_number");
2  postman.setEnvironmentVariable('Authorization_auth_code_value' ,btoa(customer_number+":"+"sifre"));
3  
```

Pre-request scripts are written in JavaScript, and are run before the request is sent.
Learn more about pre-request scripts

Status of the response should be 302 after a successful request. You can obtain your code in the header of the response. It should be located at the 'Location' parameter.

Body   Cookies (2)   Headers (12)   Test Results   Status: **302 Proc**

Access-Control-Allow-Credentials → false

Access-Control-Allow-Methods → GET

Access-Control-Allow-Origin → *

Access-Control-Expose-Headers → APIm-Debug-Trans-Id, X-RateLimit-Limit, X-RateLimit-Remaining, X-RateLimit-Reset, X-Global-Transaction-

Cache-Control → private, no-cache, no-store, must-revalidate

Connection → Keep-Alive

Content-Encoding → gzip

Content-Security-Policy → default-src 'self'; style-src 'unsafe-inline'

Content-Type → unknown

Location → http://www.example.com?code=AAl1hY9Gw5IKdyUrpJu-Amhm3w964akWy0LQZSoupSn3AlHuryHuGBdn_HHObTPd8KZ11ZScVkxTX3GdJL9FFN8SUDPRGEC8WwCMXH3n9mUuMA

Transfer-Encoding → chunked

X-Backside-Transport → FAIL FAIL

Access Token

After you get your authorization code by using one of the methods described above, now you can get your access token. In order to do that you must make POST request to the authorization API with the code you acquired before. Body of the request contains grant_type parameter which value is always "authorization_code", redirect_uri the redirect url of your application you described before, and the final one is the code your authorization code that you acquired before. Content type of the body should be "application/x-www-form-urlencoded"

Authorization   Headers (3)   Body ●   Pre-request Script ●   Tests ●

○ form-data   ● x-www-form-urlencoded   ○ raw   ○ binary
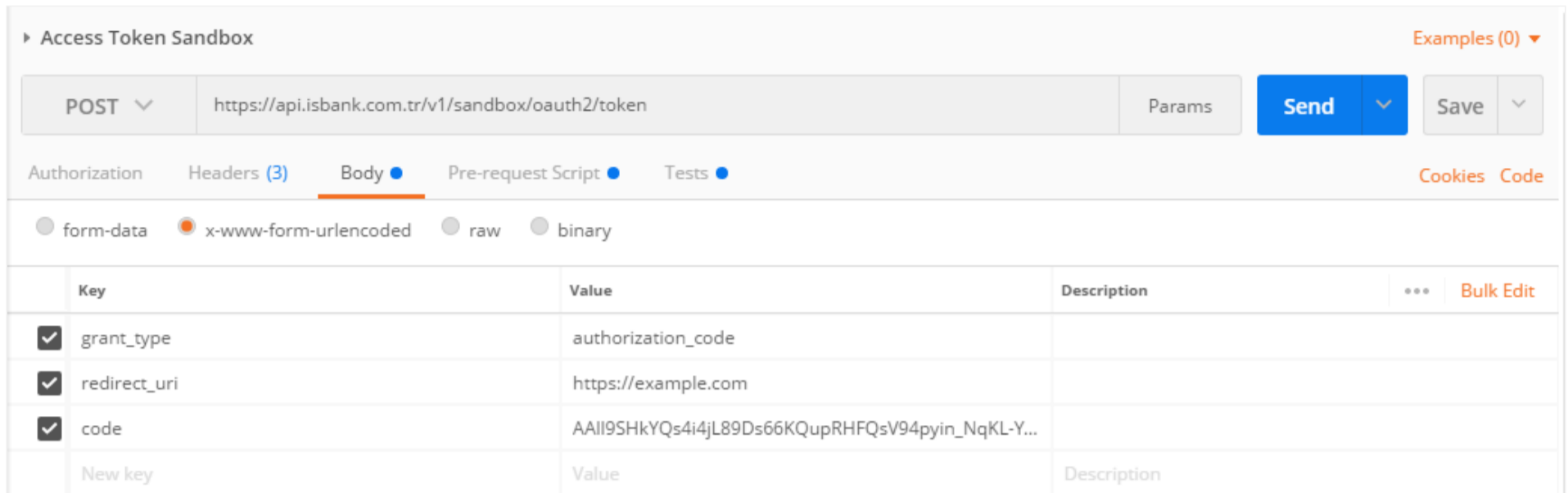
	Key	Value	Description
☑	grant_type	authorization_code	
☑	redirect_uri	http://www.example.com	
☑	code	AALY1w9Zw3ZxQbH_ED3iCuaSxJ0z3Ssimy33G569vOy...	
	New key	Value	Description

Content-Type, Accept and Authorization parameters should be added to the header of the request. Content-Type value should be 'application/x-www-form-urlencoded', request Accepts 'application/json' and the Authorization parameter value is the same base64 value of your client id and client secret. Similar to before you can create this value on pre request script on postman. Client Id and Client Secret should be concatenated with ':' sign between them.

```
postman.setEnvironmentVariable('Authorization_access_token_value' ,btoa("{client_id}:{client_secret}"));
```

After everything is set, You can make your POST request to the url below.

```
https://api.sandbox.isbank.com.tr/v1/sandbox/oauth2/token
```

▸ Access Token Sandbox   Examples (0) ▼

| POST ∨ | https://api.isbank.com.tr/v1/sandbox/oauth2/token | Params | Send ∨ | Save ∨ |

Authorization   Headers (3)   Body ●   Pre-request Script ●   Tests ●   Cookies Code

○ form-data   ● x-www-form-urlencoded   ○ raw   ○ binary

	Key	Value	Description	•••	Bulk Edit
☑	grant_type	authorization_code			
☑	redirect_uri	https://example.com			
☑	code	AAII9SHkYQs4i4jL89Ds66KQupRHFQsV94pyin_NqKL-Y...			
	New key	Value	Description		

Status of the response should be 200 after a successful request. You can obtain your access code from the body of the response.

| Body | Cookies (2) | Headers (12) | Test Results (5/5) | Status: 200 OK | Time: 32 ms | Size: 824 B |

Pretty   Raw   Preview   JSON ∨   ⇄   ☐ Q Save Response

```
1 ▾ {
2       "token_type": "bearer",
3       "access_token": "AAIkMTM5ZmJiMzAtNjJ1OS00Y2VhLWEzNzItYmVlOTQwOGMxYmI1uF54iMxLVruWU
           -cY1yFvdH9ErE3X_yjrynsaKRghCWoGno2Ac2k81n7D2AgBs1oTGOgqG9ArVVM4-L3ojcFKY1ZBZdrrVTvQSr2SBU9jaX0",
4       "expires_in": 1200,
5       "consented_on": 1533628943,
6       "scope": "login"
7 }
```