
Hackathon FIAP

APIs

Guia para as APIs simuladas



Consulta dados da conta

GET /open-banking/v1/accounts/{accountId}

Consulta saldo

GET /open-banking/v1/accounts/{accountId}/balances

Consulta extrato

GET /open-banking/v1/accounts/{accountId}/transactions

Faz transferência

GET /accounts/v1/accounts/{accountId}/transfers

Lista Morning Calls

GET /media/v1/youtube

Contato para abertura de contas (Opt In)

POST /accounts/v1/optin

Baseadas nas especificações do
Open Banking United Kingdom.

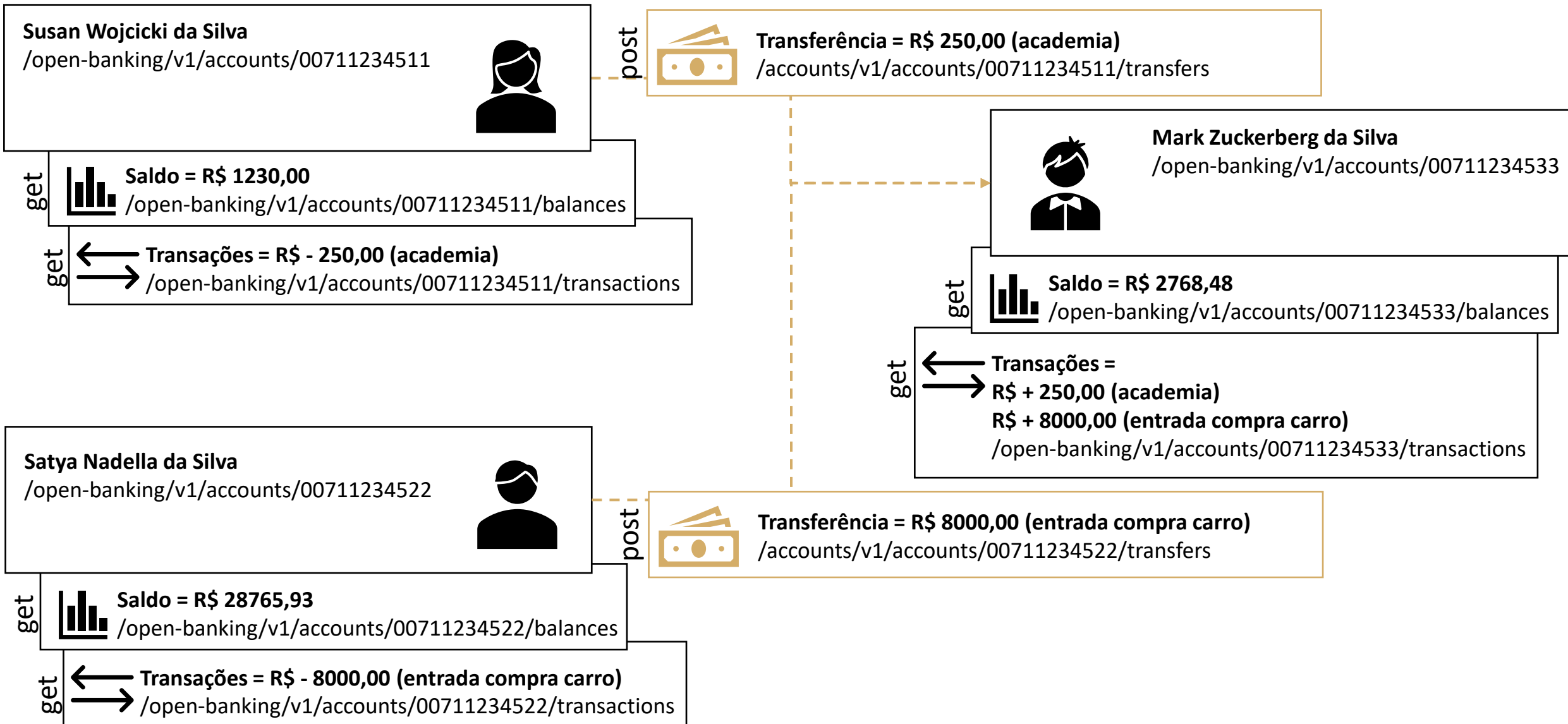
Documentação:

<https://openbanking.atlassian.net/wiki/spaces/DZ/pages/16385802/Specifications>

Modelagem interna inspirada no **Open Banking United Kingdom.**

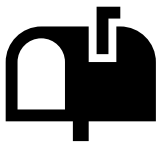
Funcionalidades não previstas no
Open Banking.

Funcionalidades simuladas



post

Contato para abertura de conta (Opt In)
`/accounts/v1/optin`



Name,
Email,
Phone

Martin
Fowler
Silva

Robert Cecil
Martin da
Silva

Eric Evans
Silva

Funcionalidades simuladas – Exemplos (Conta)

Susan Wojcicki da Silva

/open-banking/v1/accounts/00711234511



GET

https://af3tqle6wgdocsdirzlfrq7w5m.apigateway.sa-saopaulo-1.oci.customer-oci.com/fiap-sandbox/open-banking/v1/accounts/00711234511

```
{
  "Data": {
    "Account": [
      {
        "AccountId": "00711234511",
        "Currency": "BRL",
        "Nickname": "Susan",
        "Account": {
          "SchemeName": "SortCodeAccountNumber",
          "Identification": "12345678901211",
          "Name": "Susan Wojcicki da Silva",
          "SecondaryIdentification": "12332111"
        }
      }
    ]
  },
  "Links": {
    "Self": "/accounts/00711234511"
  }
}
```

Funcionalidades simuladas – Exemplos (Saldo)

Susan Wojcicki da Silva

/open-banking/v1/accounts/00711234511



get



Saldo = R\$ 1230,00

/open-banking/v1/accounts/00711234511/balances

GET

<https://af3tqle6wgdocsdirzlfrq7w5m.apigateway.s-a-saopaulo-1.oci.customer-oci.com/fiap-sandbox/open-banking/v1/accounts/00711234511/balances>

```
{
  "Data": {
    "Balance": [
      {
        "AccountId": "00711234511",
        "Amount": {
          "Amount": "1230.00",
          "Currency": "BRL"
        }
      },
      {
        "CreditDebitIndicator": "Credit",
        "Type": "InterimAvailable",
        "DateTime": "2020-06-23T10:43:07-03:00",
        "CreditLine": [
          {
            "Included": true,
            "Amount": {
              "Amount": "100000.00",
              "Currency": "BRL"
            }
          },
          {
            "Type": "Pre-Agreed"
          }
        ]
      }
    ]
  },
  "Links": {
    "Self": "/accounts/00711234511/balances/"
  }
}
```

Funcionalidades simuladas – Exemplos (Extrato)

Susan Wojcicki da Silva

/open-banking/v1/accounts/00711234511



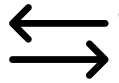
get



Saldo = R\$ 1230,00

/open-banking/v1/accounts/00711234511/balances

get



Transações = R\$ - 250,00 (academia)

/open-banking/v1/accounts/00711234511/transactions

GET

<https://af3tqle6wgdocsdirzlfrq7w5m.apigateway.s-a-saopaulo-1.oci.customer-oci.com/fiap-sandbox/open-banking/v1/accounts/00711234511/transactions>

```
{
  "data": {
    "transaction": [
      {
        "accountId": "00711234511",
        "transactionId": "999911",
        "amount": {
          "amount": "250.00",
          "currency": "BRL"
        },
        "creditDebitIndicator": "Debit",
        "status": "Booked",
        "bookingDateTime": "2020-04-05T10:43:07-03:00",
        "valueDateTime": "2020-04-05T10:45:22-03:00",
        "transactionInformation": "Mensalidade Academia",
        "bankTransactionCode": {
          "code": "ReceivedCreditTransfer",
          "subCode": "DomesticCreditTransfer"
        },
        "proprietaryBankTransactionCode": {
          "code": "Transfer",
          "issuer": "BancoSafra"
        },
        "balance": {
          "amount": {
            "amount": "1230.00",
            "currency": "BRL"
          },
          "creditDebitIndicator": "Credit",
          "type": "InterimBooked"
        }
      }
    ]
  },
  "links": {
    "self": "/accounts/00711234511/transactions"
  }
}
```

Funcionalidades simuladas – Exemplos (Transferências)

post



Transferência = R\$ 250,00 (academia)

/accounts/v1/accounts/00711234511/transfers

POST

https://af3tqle6wgdocsdirzlfrq7w5m.apigateway.s
a-saopaulo-1.oci.customer-oci.com/fiap-
sandbox/accounts/v1/accounts/00711234511/tr
ansfers

```
{
  "Amount": {
    "Amount": "250.00",
    "Currency": "BRL"
  },
  "DestinyAccount": {
    "Bank": "422",
    "Agency": "0071",
    "Id": "1234533",
    "Cpf": "12345678933",
    "Name": "Mark Zuckerberg da Silva",
    "Goal": "Credit"
  },
  "Type": "TEF",
  "TransactionInformation": "Mensalidade Academia"
}
```

```
{
  "Data": {
    "AccountId": "00711234511",
    "Bank": "422",
    "Agency": "0071",
    "AccountNumber": "1234511",
    "Amount": {
      "Amount": "250.00",
      "Currency": "BRL"
    },
    "DestinyAccount": {
      "Bank": "422",
      "Agency": "0071",
      "Number": "1234533",
      "Cpf": "12345678933",
      "Name": "Mark Zuckerberg da Silva",
      "Goal": "Credit"
    },
    "Type": "TEF",
    "Status": "Booked",
    "BookingDateTime": "2020-04-05T10:43:07-03:00",
    "ValueDateTime": "2020-04-05T10:45:22-03:00",
    "TransactionInformation": "Mensalidade Academia"
  }
}
```




Morning calls

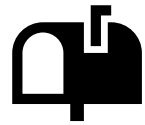
GET /media/v1/youtube?**fromData=2020-07-09&toData=2020-07-14&playlist=morningCalls&channel=safra**

```
{
  "data": [
    {
      "id": "_V8f_Su9_RA",
      "channel": "safra",
      "playlist": "morningCalls",
      "data": "2020-07-14",
      "title": "Morning Call Safra - 14/07/2020",
      "description": "Veja no Morning Call desta terça-feira, 14 de julho, como o Ibovespa perdeu ontem os 100 mil pontos, após passar a maior parte do pregão acima desse nível."
      "links": [
        {
          "href": "https://www.youtube.com/watch?v=_V8f_Su9_RA",
          "rel": "youtube",
          "title": "Link Youtube do Morning Call"
        },
        {
          "href": "https://objectstorage.sa-saopaulo-1.oraclecloud.com/p/KkvwgXxVpb3LtpopVhGJ7VgeKbp23imgFbBrImW4W_Q/n/gr618lalrmij/b/morningcalls/o/Morning%20Call%20Safra%20-%2014_07_2020.m4a",
          "rel": "audioFile",
          "title": "Arquivo .m4a de audio do Morning Call"
        },
        {
          "href": "https://objectstorage.sa-saopaulo-1.oraclecloud.com/p/A4foEVfocaZE-enp7tmLdButDRwCxamcryNOCte3P1Q/n/gr618lalrmij/b/morningcalls/o/Morning%20Call%20Safra%20-%2014_07_2020.mp4",
          "rel": "videoFile",
          "title": "Arquivo .mp4 do Morning Call"
        }
      ]
    },
    ...
  ]
}
```

post

Contato para abertura de conta (Opt In)

/accounts/v1/optin



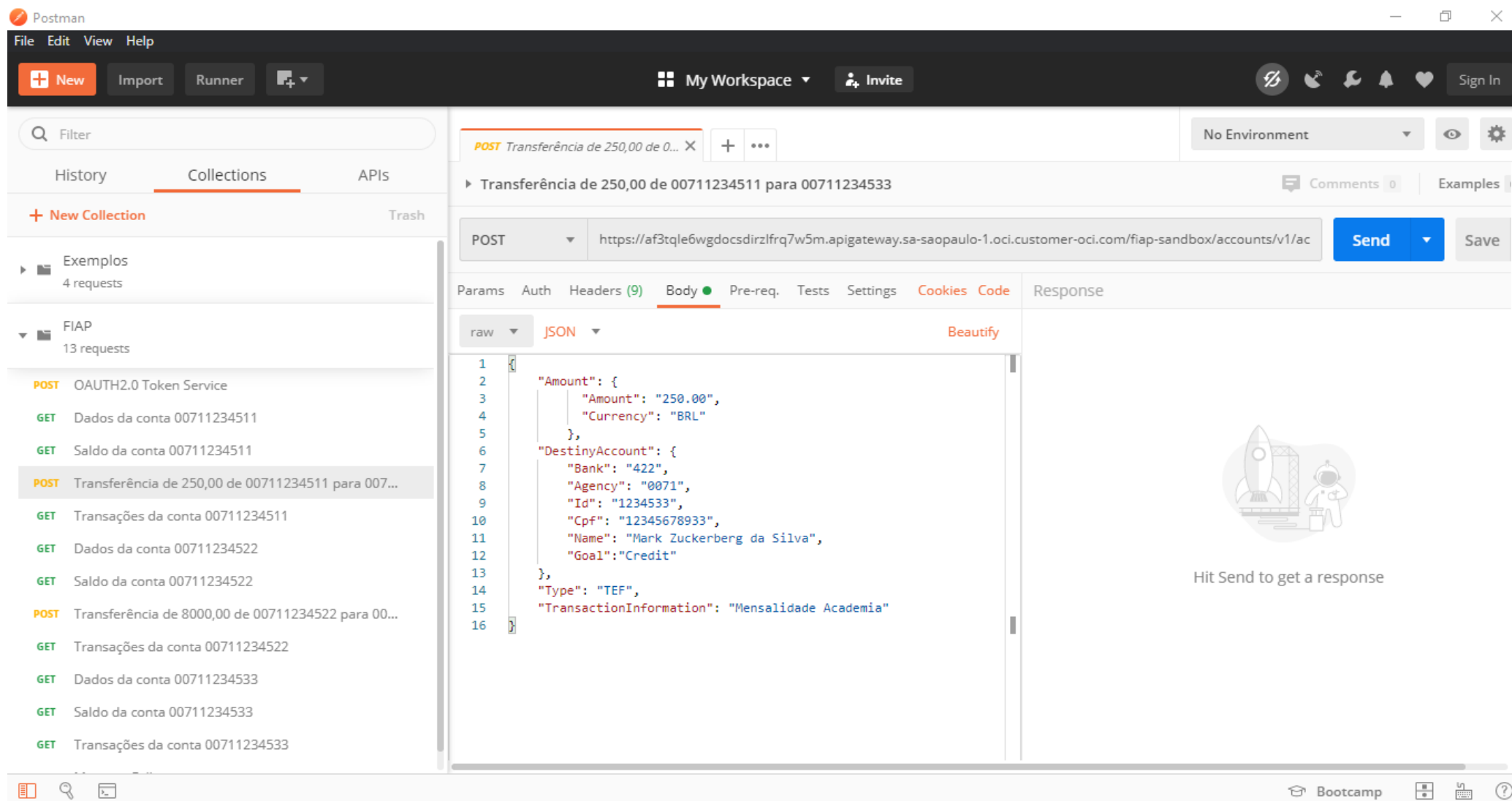
POST

https://af3tqle6wgdocsdirzlfrq7w5m.apigateway.s
a-saopaulo-1.oci.customer-oci.com/fiap-
sandbox/**accounts/v1/optin**

```
{  
  "Name": "Eric Evans Silva",  
  "Email": "eric.evans@ddd.com",  
  "Phone": "+5511911111111"  
}
```

Funcionalidades simuladas – Postman Collection

FIAP.postman_collection.json (enviado junto com este material)



Autenticação (OAUTH2.0 Client Credentials)



Endereço do servidor de autenticação

POST <https://idcs-902a944ff6854c5fbe94750e48d66be5.identity.oraclecloud.com/oauth2/v1/token>

Cada time receberá
seu cliente_id e
cliente_secret

client_id:client_secret

abc123xxx:xyz456yyy

Converter
para
Base 64

YWJjMTIzeHh4Onh5ejQ1Nnl5eQ==

Header:

'Authorization: Basic YWJjMTIzeHh4Onh5ejQ1Nnl5eQ=='

Body:

grant_type=client_credentials&scope=urn:opc:resource:consumer::all

Response:

```
{  
  "access_token": "eyJ4NXQj***EuwHBw",  
  "token_type": "Bearer",  
  "expires_in": 3600  
}
```



Token expira em
3600 segundos!



Endereço do servidor

GET <https://af3tqle6wgdocsdirlfrq7w5m.apigateway.sa-saopaulo-1.oci.customer-oci.com/fiap-sandbox>

+ Concatenar os recursos (paths)

/open-banking/v1/accounts/00711234511/transactions

/open-banking/v1/accounts/00711234511

/open-banking/v1/accounts/00711234511/balances

/media/v1/youtube?fromData=2020-07-09&toData=2020-07-14&playlist=morningCalls&channel=safra

...

+ Acrescentar header com o token gerado

Header:

'Authorization: Bearer **eyJ4NXQj***EuwHBw**'