Servidor de dados

Inicialização

```
gbpereira@dataserver: ~
gbpereira@dataserver:~$ python3.8 data_server.py
 * Serving Flask app 'data_server' (lazy loading)
 * Environment: production
 *WARNING: This is a development server. Do not use it in a production deployment.
 *Use a production WSGI server instead.
 * Debug mode: on
 * Running on all addresses (0.0.0.0)
 *WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://127.0.0.1:5000
 * Running on http://10.0.0.4:5000 (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 129-256-627
```

Output

```
gbpereira@dataserver: ^
20.226.20.175 - - [22/May/2022 02:40:17] "GET /autentica?id_negoc=10.0.0.7%3A5000 HTTP/1.1" 200 - 20.226.20.175 - - [22/May/2022 02:40:17] "GET /getLock?id_negoc=10.0.0.7%3A5000&conta=5 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /qetSaldo?id_negoc=10.0.0.7%3A5000&conta=5 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /unLock?id_negoc=10.0.0.7%3A5000&conta=5 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /autentica HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /autentica HTTP/1.1" 200 -
20.226.17.255 - - [22/May/2022 02:40:17] "GET /autentica?id_negoc=10.0.0.5%3A5000 HTTP/1.1" 200 -
20.226.17.255 - - [22/May/2022 02:40:17] "GET /getLock?id_negoc=10.0.0.5%3A5000&conta=0 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /autentica?id_negoc=10.0.0.7%3A5000 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /getLock?id_negoc=10.0.0.7%3A5000&conta=8 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /getSaldo?id_negoc=10.0.0.7%3A5000&conta=8 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /unLock?id_negoc=10.0.0.7%3A5000&conta=8 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /autentica HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /autentica?id_negoc=10.0.0.7%3A5000 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /getLock?id_negoc=10.0.0.7%3A5000&conta=2 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /getSaldo?id_negoc=10.0.0.7%3A5000&conta=2 HTTP/1.1" 200 -
20.226.20.175 - - [22/May/2022 02:40:17] "GET /unLock?id_negoc=10.0.0.7%3A5000&conta=2 HTTP/1.1" 200 -
```

Servidores de negócio

Inicialização

```
gbpereira@business-server1:
gbpereira@business-server1:~$ python3.8 business_server.py http://20.226.19.87:5000
* Debug mode: on
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://10.0.0.5:5000 (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
gbpereira@business-server2:~$ python3.8 business_server.py http://20.226.19.87:5000
* Environment: production
* Debug mode: on
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Restarting with stat
* Debugger is active!
* Debugger PIN: 328-246-004
                                                                             gbpereira@business-server3: ~
gbpereira@business-server3:~$ python3.8 business_server.py http://20.226.19.87:5000
* Debug mode: on
* Restarting with stat
```

```
gbpereira@business-server1: ~
189.100.71.154 - - [22/May/2022 02:40:15] "GET /saldo/0 HTTP/1.1" 404 -
189.100.71.154 - - [22/May/2022 02:40:15]
                                                "GET /saque/10/1000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:15] "GET /saldo/9 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:15] "GET /saldo/9 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:15] "GET /saldo/0 HTTP/1.1" 404 -
189.100.71.154 - - [22/May/2022 02:40:15] "GET /saldo/5 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:15] "GET /saldo/6 HTTP/1.1" 200 189.100.71.154 - - [22/May/2022 02:40:16] "GET /saldo/6 HTTP/1.1" 200
                      [22/May/2022 02:40:16] "GET /saldo/6 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:16] "GET /saque/6/500 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:16] "GET /saldo/10 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:16] "GET /deposito/3/5000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /transferencia/3/10/2000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saque/0/1000 HTTP/1.1" 404 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saldo/6 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saldo/10 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saldo/3 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saldo/0 HTTP/1.1" 404 -
                                                                                    gbpereira@business-server2:
189.100.71.154 - - [22/May/2022 02:40:11]
189.100.71.154 - - [22/May/2022 02:40:12]
189.100.71.154 - - [22/May/2022 02:40:12] "GET /transferencia/3/5/2000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/6 HTTP/1.1" 200 - 189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/5 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/3 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/10 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:13] "GET /saque/9/500 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:13] "GET /deposito/3/5000 HTTP/1.1" 200 - 189.100.71.154 - - [22/May/2022 02:40:14] "GET /transferencia/3/5/2000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:14] "GET /saque/10/1000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:14] "GET /saldo/5 HTTP/1.1" 200 -
                                                                                    gbpereira@business-server3: ~
189.100.71.154 - - [22/May/2022 02:40:12]
189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/0 HTTP/1.1" 404 - 189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/1 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:13] "GET /saldo/5 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /transferencia/8/5/2000 HTTP/1.1" 200 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saldo/0 HTTP/1.1" 404 -
189.100.71.154 - - [22/May/2022 02:40:17] "GET /saldo/2 HTTP/1.1" 200 -
```

Testes

O output do script de execução (executado em duas sessões do terminal).

Detalhes: as respostas de sucesso tem status 200, o script também usa tokens/contas inválidas, nesse caso o status é 401...404.

```
~/Workspace/mackenzie/repositories/compdist-banco-distribuido-webservices master [x] 2.7.1
                           ent -> server_address: http://20.226.17.295;3000 aut
saque(2, 500) -> body: {}, status: 200
deposito(4, 5000) -> body: {}, status: 200
transferencia(4, 10, 2000) -> body: {}, status: 200
saque(5, 1800) -> body: {}, status: 280
saldo(2) -> body: {'saldo': 500}, status: 200
saldo(10) -> body: {'saldo': 500}, status: 200
saldo(4) -> body: {'saldo': 4000}, status: 200
saldo(5) -> body: {'saldo': -500}, status: 200
saldo(5) -> body: {'saldo': -500}, status: 200
                           ent -> server_address: http://20.226.17.255:5000 au
saque(0, 500) -> body: {}, status: 401
deposito(1, 5000) -> body: {}, status: 401
transferencia(1, 7, 2000) -> body: {}, status: 401
saque(9, 1000) -> body: {}, status: 401
saldo(0) -> body: {}, status: 401
saldo(7) -> body: {}, status: 401
saldo(1) -> body: {}, status: 401
saldo(9) -> body: {}, status: 401
client -> server_address: http://20.226.17.255:5000 authentication_server: http://20.226.19.87:5000/autentica token: a5fc
    saque(1, 500) -> body: {}, status: 200
    deposito(0, 5000) -> body: {}, status: 404
    transferencia(0, 3, 2000) -> body: {}, status: 404
    saque(8, 1000) -> body: {}, status: 200
    saldo(1) -> body: {'saldo': 10500}, status: 200
    saldo(3) -> body: {'saldo': 0}, status: 200
    saldo(0) -> body: {}, status: 404
    saldo(8) -> body: {'saldo': 2000}, status: 200
                           saque(4, 500) -> body: {}, status: 401
deposito(3, 5000) -> body: {}, status: 401
transferencia(3, 1, 2000) -> body: {}, status: 401
saque(8, 1000) -> body: {}, status: 401
                              saldo(1) -> body: {'saldo': 9500}, status: 200
saldo(2) -> body: {'saldo': 3500}, status: 200
saldo(5) -> body: {'saldo': 0}, status: 200
                           ent -> server_address: http://20.22s.17.2555000 at saque(10, 500) -> body: {}, status: 200 deposito(0, 5000) -> body: {}, status: 404 transferencia(0, 0, 2000) -> body: {}, status: 404 saque(9, 1000) -> body: {}, status: 200 saldo(10) -> body: {}, status: 200 saldo(0) -> body: {}, status: 404 saldo(9) -> body: 
                           ent -> server_address: http://20.226.17.255:5000 au
saque(0, 500) -> body: {}, status: 404
deposito(0, 5000) -> body: {}, status: 404
transferencia(0, 9, 2000) -> body: {}, status: 404
saque(6, 1000) -> body: {}, status: 200
saldo(0) -> body: {}, status: 404
saldo(0) -> body: {}, status: 404
saldo(0) -> body: {} status: 404
saldo(0) -> body: {}, status: 404
saldo(0) -> body: {}, status: 404
saldo(6) -> body: {}, status: 404
saldo(6) -> body: {} saldo': 4000}, status: 200
                              saque(6, 500) -> body: {}, status: 200
deposito(3, 5000) -> body: {}, status: 200
transferencia(3, 10, 2000) -> body: {}, status: 200
                            deposito(3, 5000) -> body: {}, status: 200
transferencia(3, 10, 2000) -> body: {}, status:
saque(0, 1000) -> body: {}, status: 404
saldo(6) -> body: {'saldo': 3500}, status: 200
saldo(10) -> body: {'saldo': 8500}, status: 200
saldo(3) -> body: {'saldo': 9000}, status: 200
saldo(0) -> body: {}, status: 404
       ~/Workspace/mackenzie/repositories/compdist-banco-distribuido-webservices master [×] 2.7.1
```