

2. Server Connection

This section is about the **server and API connection** itself. It needs to be established before any other tasks can be accomplished.

2.1. Basic Connection

The following assumes that you have created a configuration file with your credentials as described in the *Quick Start* section.

In [1]:

```
import fxcmpy
```

In [2]:

```
con = fxcmpy.fxcmpy(config_file='fxcm.cfg')
```

2.2. Status Information

To check if the connection is established, you can use the method `con.is_connected()`.

In [3]:

```
con.is_connected()
```

Out[3]:

```
True
```

After the connection is established, **fxcmpy** gathers information about your FXCM account.

For example, the **ids** of your accounts within your FXCM account are retrieved.

In [4]:

```
con.get_account_ids()
```

Out[4]:

```
[2815291]
```

The first account **id** is used as *default*:

In [5]:

```
con.get_default_account()
```

Out[5]:

```
2815291
```

To set another account as default, use `con.set_default_account()`.

In [6]:

```
con.set_default_account(2815291)
```

The **ids** of your existing orders from previous sessions are also available ...

In [7]:

```
con.get_order_ids() # regular orders
```

Out[7]:

```
[422719537,  
423235903,  
423235901,  
422724771,
```

```
404812349,  
404812351,  
422696238,  
422722769,  
424130850,  
422912217,  
422912219,  
422725725,  
423269441,  
423269701]
```

In [8]:

```
con.get_oco_order_ids() # OCO orders
```

Out[8]:

```
[423235902, 422912218]
```

... as well as the available instruments.

In [9]:

```
instruments = con.get_instruments()  
print(instruments)
```

```
['EUR/USD', 'USD/JPY', 'GBP/USD', 'USD/CHF', 'EUR/CHF', 'AUD/USD', 'USD/CAD', 'NZD/USD', 'EUR/GBP', 'EUR/JPY', ' '
```

To free resources, it is recommended to close the connection at the end of a session.

In [10]:

```
con.close()
```

2.3. Using a proxy

The constructor of the `fxcmpy` class accepts 3 parameter to establish a connection via proxy, namely:

- `proxy_url`, the URL or IP address of the proxy,
- `proxy_port`, the port number of the proxy and
- `proxy_type`, one of `http`, `socks4` or `socks5`.

In [11]:

```
con = fxcmpy.fxcmpy(config_file='fxcm.cfg', proxy_url='192.241.154.247',  
                    proxy_port=8080, proxy_type='http')
```

In [12]:

```
con.is_connected()
```

Out[12]:

```
True
```

In [13]:

```
con.close()
```