

Setting Up Auto Trader Client Checklist

NOTE: Never place sensitive personal information or account credentials (API keys, account numbers, etc.) in a publicly accessible location like GitHub, shared computers, shared cloud storage etc.

1. Clone the repository or download the code from GitHub. All relevant Auto Trader Client code is contained in the “auto_trader_client” directory
2. Rename “auto_trader_client/sample_config” directory to “config”. Remove “sample_” from the name of the .json files in the directory.
3. Google Cloud Platform (GCP)
 - a. Set up a GCP account
 - b. Create a GCP service account for Auto Trader and download the service account key to the config directory. For help see the “Creating GCP Service Account and Key.pdf” in docs
 - c. Update the path name to service key in “auto_trader_client/src/client_settings.py”. E.g.:


```
GCP_CREDS_PATH = “config/<service account key file name.json>”
```
 - d. Place the name of the GCP bucket that will be listened to in “config/storage_bucket.json”
4. TD Ameritrade (TDA)
 - a. Create an account and register your app with the TD Ameritrade Developers site
 - b. Obtain the TDA consumer key (aka client_id, aka API key) and place it in the “tda_api_key” in the “config/tda_auth_params.json”
 - c. Update “tda_auth_uri” in “config/tda_auth_params.json” with the name of the URI (aka URL) that you registered with your TDA Developer app

- d. Update "tda_acct" in "config/tda_auth_params.json" with your TDA account number

5. Order Guidelines

- a. In "config/order_guidelines.json", set the order value. This is the upper limit value for placing a single order. For example:

If the order value is 500 (\$500) and options contracts are being purchased with a lot value of \$150 = (\$1.50 quoted price) x (100 underlying shares) then a total of 3 contracts will be purchased

4 contracts would cost \$600 in this example and exceed the order value limit

- b. In "config/order_guidelines.json", set the buy_limit_percentage. The buy limit percentage is used to set a limit on buy orders based on the signaled price ("contract_price"). For example:

If the signaled price ("contract_price") on a BTO order is \$1.00 and the buy_limit_percentage is 0.05 (5%), then the BTO order will be placed with a buy limit of \$1.05. The order will only execute if the BTO order can be fulfilled at a purchase price better than or equal to \$1.05

- c. In "config/order_guidelines.json", set the SL_percentage. This is the percentage used to issue stop-loss orders. When executing a BTO order, a second STC stop-market order is also placed. The stop-market activation price is set as a percentage below the signaled contract price. For example:

If the signaled price ("contract_price") on a BTO order is \$1.00 and the SL_percentage is 0.10 (10%), then the STC stop-market order accompanying a BTO order will be \$0.90

- 6. Download the geckodriver executable (geckodriver.exe) and save it to the "auto_trader_client/bins" directory. Geckodriver is used by the Selenium package and is needed for initially authenticating into TD Ameritrade. Geckodriver for your OS can be found at:

<https://github.com/mozilla/geckodriver/releases>

Additional details on Selenium can be found at:

<https://selenium-python.readthedocs.io/installation.html#drivers>