
Deploy the app on the VPS

- Connect to the VPS via SSH
- If a python version is already installed (v3.10) remove it:

```
sudo apt-get remove python3 -y
```

```
sudo apt-get remove --auto-remove python3 -y
```

```
sudo apt-get purge python3 -y
```

```
sudo apt-get purge --auto-remove python3 -y
```

- Install Python 3.8 (version 3.8 is recommended due to ta-lib & backtrader incompatibilities issues):

```
apt update
```

```
apt upgrade
```

```
sudo apt install ca-certificates apt-transport-https software-properties-common lsb-release -y
```

```
sudo gpg --list-keys
```

```
#This whole one is a commande
```

```
sudo gpg --no-default-keyring --keyring /usr/share/keyrings/deadsnakes.gpg --keyserver  
keyserver.ubuntu.com --recv-keys F23C5A6CF475977595C89F51BA6932366A755776
```

```
#This whole one is a commande
```

```
echo "deb [signed-by=/usr/share/keyrings/deadsnakes.gpg]
```

```
https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu $(lsb_release -cs) main" | sudo tee  
/etc/apt/sources.list.d/python.list
```

```
sudo apt update
```

```
sudo apt install python3.8 -y
```

```
sudo apt install python3.8-dev -y
```

- To check if the appropriate version of python is installed run:
python3.8 --version

- Install PIP for python 3.8

```
sudo apt install python3.8-distutils -y
```

```
curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
```

```
python3.8 get-pip.py
```

- Install the required python packages for server

```
pip3 install wheel
```

```
pip3 install --ignore-installed flask
```

```
pip3 install --ignore-installed gunicorn
```

- Populate server directory with project files //enter the 2 steps below

```
sudo mkdir -p /var/www/trade
cd /var/www/trade
mkdir logs
```

- Transfer all project files to this directory (or clone the repository if found)
- Dedicated section for Legacy ta-lib: To install this lib you should follow the following steps:

```
cd /var/www/trade
wget http://prdownloads.sourceforge.net/ta-lib/ta-lib-0.4.0-src.tar.gz
tar -xzf ta-lib-0.4.0-src.tar.gz
cd ta-lib/
./configure --prefix=/usr
make
sudo make install
```

- If all the prev steps went correctly, export env variable:

```
cd /var/www/trade/
export TA_LIBRARY_PATH=/var/www/trade/ta-lib/lib
```

- and then install the ta-lib:

```
pip install TA-Lib
```

- Install All project related packages

```
pip3 install flask flask-socketio
pip3 install gevent-websocket eventlet
pip3 install flask-paginate
pip3 install websocket-client
pip3 install pymongo
pip3 install cffi
pip3 install pandas pandas-ta yfinance
pip3 install APScheduler
pip3 install scrapy crochet
pip3 install python-binance
```

#This whole one is a command

```
pip3 install
```

```
git+https://github.com/mementum/backtrader.git@0fa63ef4a35dc53cc7320813f8b15480c8f85517
```

```
pip3 install matplotlib==3.2.2
```

```
#chatgpt installation
```

```
pip3 install openai
```

```
pip3 install transformers
```

```
pip3 install plotly==5.14.1
```

```
pip3 install -U scikit-learn
```

```
pip3 install pytorch-transformers
```

```
pip3 install torchvision
```

```
pip3 install scipy
```

```
pip3 install tiktoken
```

```
pip3 install -U Werkzeug
```

- Finally run the server

```
gunicorn --bind 0.0.0.0:5000 --log-file='./logs/server.log' wsgi:app
```

- To stop the server, kill it process by running:

```
pkill -f gunicorn
```

```
pkill gunicorn
```

```
# Temp mongoDB credentials
```

```
echo "MongoDB email : modif15595@youke1.com"
```

```
echo "MongoDB password : nicolas2023"
```

```
echo "MongoDB user username : nico"
```

```
echo "MongoDB user password : Wpu7FK6SEaOkK5mY"
```

```
echo "MongoDB connect string :
```

```
mongodb+srv://nico:Wpu7FK6SEaOkK5mY@cluster0.hfbbtfi.mongodb.net/?retryWrites=true&w=majority"
```

Indicators list

<https://www.backtrader.com/docu/indautoref/>

<https://github.com/twopirllc/pandas-ta>