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# **Pricebots Documentation**

***Release 3.0.1***

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# CHAPTER 1

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## Installation Guide

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The following is a guide for setting up your own Pricebot.

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**Note:** Pricebots is intended to run on either Windows or Linux. Pricebots does not currently work for Mac OS.

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## Requirements

Here is a quick bullet list of things that you will need to run your bot. This guide will go over how to meet these requirements, however, it is not intended to go into every single detail.

### Quick List

- Download Python 3.6 or greater
- **Create a Twitter account**
  - Create a Twitter App
  - Generate Twitter API Keys
- Download Chrome browser if you are running the bot on Windows, or download Chromium-browser if you are running the bot on Linux
- Download the latest release of the Pricebot software
- Install dependencies for running Pricebots
- Configure your Pricebot
- Run your Pricebot

## Download Python 3.6 or greater

In order for you to run Pricebots, you will need to install Python 3.6. You can download Python 3.6 [here](#).

## Create a Twitter account

Once you have downloaded Python 3.6 you will need to create a Twitter account for your Pricebot. This is just a standard Twitter profile that you would use for a personal account.

## Create a Twitter App

After you have created your Pricebot's Twitter profile, you will need to create a Twitter App for accessing your Pricebot's account. You can create your Twitter App [here](#).

## Generate Twitter API Keys

Once you have your Twitter App created and linked to your Pricebot's Twitter account, you will be able to generate API keys.

From within your Twitter App dash, navigate to the `Keys` and `Access Tokens`, there you will be able to generate a `Consumer Key` and a `Consumer Secret` as well as an `Access Token` and an `Access Secret`.

The Twitter App will allow Pricebots to access and run your Pricebot's Twitter account. The bot uses these API keys to Tweet the price automatically.

**Warning:** Keep your API keys secret. If somebody has access to your keys they will be able to use your account. If you believe you may have compromised your API keys, you can regenerate them, but make sure that the keys you are giving to the bot are the same keys that you have regenerated.

## Chrome or Chromium

The Pricebot uses the browser to create the charts that it tweets. When creating the charts the bot expects you to have Chrome installed on Windows, or Chromium Browser installed on Linux. The Bot will not work if you are running it on a Mac.

If you do not have Chrome installed then you will need it for running Pricebots. And, you will need Chromium Browser if you are running the bot on Linux.

## Download Pricebots

Now it is time to download Pricebots. You can download the latest release of Pricebots [here](#)

## Install All Dependencies for running Pricebots

You will need to install the following Python packages that Pricebot's depends on for creating charts and tweeting to Twitter.

**The following packages are:**

- Tweepy
- Plotly
- PyYAML
- Requests

In order to install these packages you will need to use Python's package manager `pip`.

**Open the Command Terminal and enter the following commands separately:**

- `pip install tweepy`
- `pip install plotly`
- `pip install PyYAML`
- `pip install requests`

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**Tip:** If you are having trouble installing using `pip`, make sure that your `PATH` variables are set correctly.

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## Configure your Pricebot

After you have `pip` installed your dependencies, you are ready to configure your Pricebot. Open the `config.yml` file found in your Pricebot package using Notepad.

Inside your `config.yml` file you should see this:

```
bot1:
  settings:
    1hour:
      status: 24hMarketTweet
      coins:
        - coin1
  api_keys:
    consumer_key: secret
    consumer_secret: secret
    access_key: secret
    access_secret: secret
  currencies:
    coin1:
      details:
        name: eth
        full_name: Ethereum
      candlesticks:
        duration: daily
        increasing_color: "#19cf86"
        decreasing_color: "#cf1962"
bot2:
  settings:
```

```
  1hour:
    status: 24hMarketTweet
    coins:
      - coin1
  api_keys:
    consumer_key: secret
    consumer_secret: secret
    access_key: secret
    access_secret: secret
  currencies:
    coin1:
      details:
        name: btc
        full_name: Bitcoin
      candlesticks:
        duration: daily
        increasing_color: "#187ae7"
        decreasing_color: "#e78518"
bot3:
  settings:
    1hour:
      status: 24hMarketTweet
      coins:
        - coin1
  api_keys:
    consumer_key: secret
    consumer_secret: secret
    access_key: secret
    access_secret: secret
  currencies:
    coin1:
      details:
        name: ltc
        full_name: Litecoin
      candlesticks:
        duration: daily
        increasing_color: "#5dbcd2"
        decreasing_color: "#d2735d"
```

You configure the settings for your bot by modifying this configuration file. The Pricebot's software is able to run multiple instances of Twitter bots, and can tweet daily and hourly charts. You can modify the colors of the increasing and decreasing candles by changing the hexadecimal values. You will replace the words `secret` with the corresponding API keys that you have generated.

Here is an example of a Twitter bot that tweets four charts in one tweet. The charts consist of a hourly Ethereum, daily Ethereum, hourly Bitcoin, and daily Bitcoin charts:

```
bot1:
  settings:
    1hour:
      status: 24hMarketTweet
      coins:
        - coin1
        - coin2
        - coin3
        - coin4
  api_keys:
    consumer_key: secret
```



```
consumer_secret: secret
access_key: secret
access_secret: secret
currencies:
  coin1:
    details:
      name: eth
      full_name: Ethereum
    candlesticks:
      duration: daily
      increasing_color: "#19cf86"
      decreasing_color: "#cf1962"
  coin2:
    details:
      name: btc
      full_name: Bitcoin
    candlesticks:
      duration: hourly
      increasing_color: "#187ae7"
      decreasing_color: "#e78518"
  coin3:
    details:
      name: eth
      full_name: Ethereum
    candlesticks:
      duration: hourly
      increasing_color: "#19cf86"
      decreasing_color: "#cf1962"
  coin4:
    details:
      name: btc
      full_name: Bitcoin
    candlesticks:
      duration: daily
      increasing_color: "#187ae7"
      decreasing_color: "#e78518"
```

---

**Note:** Since Pricebots only has support for cryptowat.ch's API, it is only able to tweet cryptocurrencies that are on cryptowat.ch. See the available coins that you can tweet [here](#).

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## Run your Pricebot

Finally, you will be able to run your bot.

Open the Command Terminal and `cd` to your Pricebot package.

Run the following command: `python main.py run now`

This command will immediately run your Pricebot and keep tweeting constantly about every minute. This is for testing to see if you configured your Pricebot correctly. If your bot fails to run, then please submit an issue with the error message [here](#).

Otherwise, if everything looks good, then use this command to run your bot to tweet on the hour every hour: `python main.py run hourly`

If everything went right you should see your tweets on twitter at the start of every hour.

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**Note:** Pricebots uses the browser to create charts. Every time that a chart is tweeted a tab is opened and the chart gets made inside of that tab. So, Pricebots terminates the browser session 30min after every tweet in order to prevent an infinite amount of tabs from being opened. This will cause your chrome or chromium browser to close itself automatically. Therefore, it is advised that you run Pricebots on a machine that you do not use often, or that you do your browsing on a separate browser that is not Chrome or Chromium.

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