# Alpaca Markets (python-sdk) Installation Guide

This guide serves as a step by step process for setting up and validating the Alpaca Markets trade API Python SDK. Without this library, class activities and code will not be able to extract historical stock data and therefore, will not be able to be completed.

#### Install

In order for the alpaca-trade-api package to install and run properly, all of the dependencies must be satisfied. The dependencies list can be found below for reference.

- Pandas
- Requests
- Doteny

To verify the installation of a package, run conda list package\_name in your terminal, substituting package\_name for the actual package name.

If <code>Dotenv</code> is not installed, you can do so by running the following command in your terminal:

pip install python-dotenv

To initiate the alpaca-trade-api install, open a terminal and execute the following command:

• Use the pip install command to download the alpaca-trade-api module.

pip install alpaca-trade-api

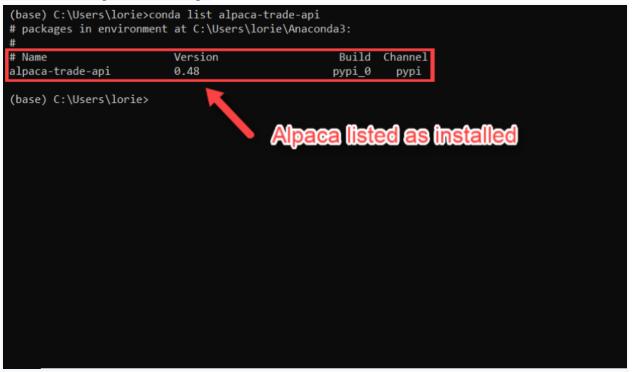
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m requests->alpaca-trade-api) (3.0.4)
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->alpaca-trade-api) (1.12.0)
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rom aiohttp->alpha-vantage->alpaca-trade-api) (3.0.1)
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aiohttp->alpha-vantage->alpaca-trade-api) (4.5.2)
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                                                   \users\lorie\anaconda3\lib\sit
tp->alpha-vantage->alpaca-trade-api) (1.1.0)
Installing collected packages: alpaca-trade-api
Successfully installed alpaca-trade-api-0.48
(base) C:\Users\lorie>
```

## **Verify Installation**

Once the alpaca-trade-api download is complete, verify the installation completed successfully.

• Use the conda list package\_name terminal command, substituting package\_name for the actual package name, to determine if the alpaca-trade-api library installed successfully.

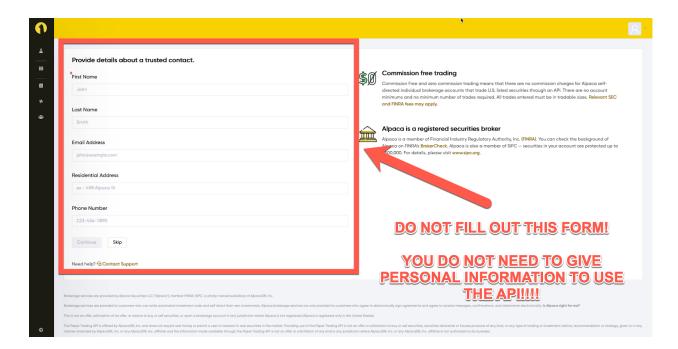
conda list alpaca-trade-api



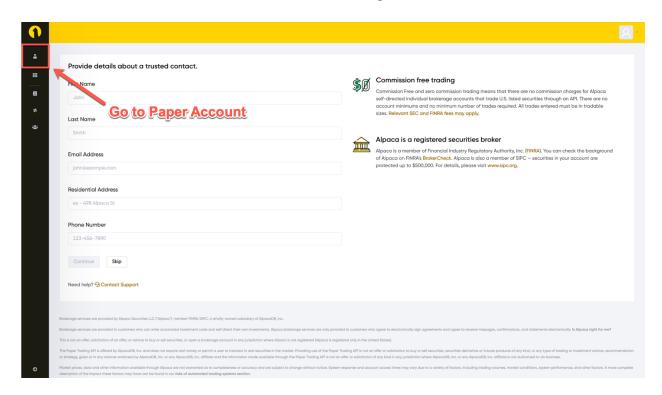
# Set ALPACA\_API\_KEY and ALPACA\_SECRET\_KEY environment variables

In order to use the Alpaca trade SDK, you will need to set your ALPACA\_API\_KEY and ALPACA\_SECRET\_KEY environment variables before using the library, as Alpaca communicates with the Alpaca API.

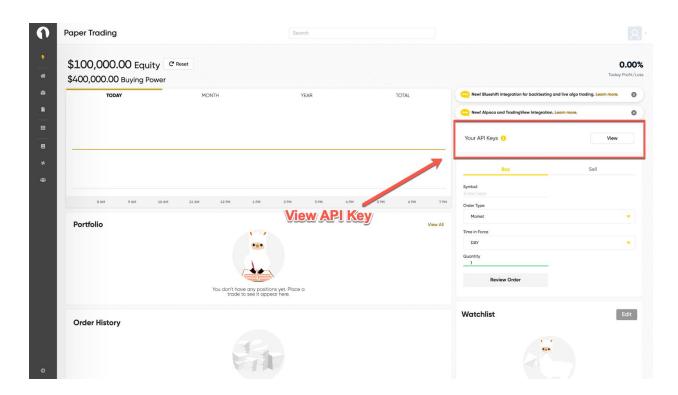
Go to Alpaca Markets and login to your account. After logging in you will be taken to a page that looks like this and will probably display a form asking you for personal information. YOU DO NOT NEED TO ENTER THIS INFORMATION



Now, click the Go to Paper Account link in the navigation sidebar.



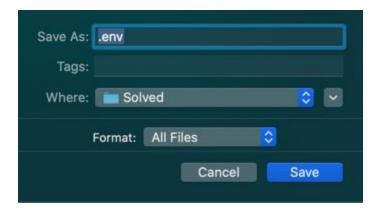
Now click on the Your API Keys section and grab your ALPACA\_API\_KEY and ALPACA SECRET KEY.



Next, open or create a new .env file where you will store your keys and use the following syntax.

Note: Make sure your environment variables are specifically named <code>ALPACA\_API\_KEY</code> and <code>ALPACA\_SECRET\_KEY</code>.

Save this file in the same folder as your python script or jupyter notebook file. If the file is not already created save it as .env.

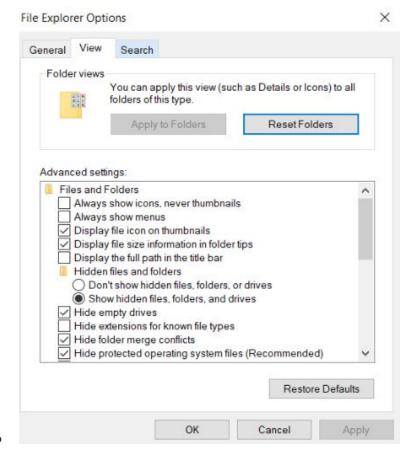




# **Enabling Hidden Files**

To work with .env files on your machine you will need to be able to view hidden files on your machine.

- Windows
  - Type folder in search bar.
  - O Select File Explorer Options.
  - Click the View tab in the pop up box, then click Show hidden files,
     folders and drives as shown below:



- Mac OSX
  - Open Finder
  - Press Command + Shift + Dot
- Linux (Ubuntu)
  - Open your file manager
  - Press Ctrl + H

#### **Usage**

Lastly, run jupyter-lab. You may have to restart jupyter-lab if it is already running in the terminal in order for jupyter-lab to re-scan the environment for new variables.

## **Troubleshooting**

It can be frustrating when packages do not install correctly, therefore use the below approaches to troubleshoot any installation or usage issues.

#### **Update Conda Environment**

An out-of-date Anaconda environment can create issues when trying to install new packages. Follow the steps below to update your conda environment.

1. Deactivate your current conda environment. This is required in order to update the global conda environment. Be sure to quit any running applications, such as Jupyter, prior to deactivating the environment.

conda deactivate

2. Update conda.

conda update conda

3. Create a fresh conda environment to use with alpaca.

conda create -n alpacaenv python=3.7 anaconda

4. Activate the new environment.

conda activate alpacaenv

5. Install the alpaca-trade-api package.

pip install alpaca-trade-api