

API Trading with (Classic) v4 dYdX Python Client

Pros and Cons of (Classic) V4 dYdX Python Client

1. Pro: Used by many traders already
2. Pro: Easy setup (this document)
3. Pro: Required for V4 dYdX CLI Tool
4. Con: Can only trade cross-margin markets in cross-margin mode. As of December 3, 2024, the following markets are cross-margin capable or isolated-margin only.

Requirements (Initial Setup)

1. Recommended OS: Ubuntu 22.04.4 LTS server (ubuntu-22.04.4-live-server-amd64.iso)
2. Install dependencies.

```
sudo apt-get install python3-pip
```

```
pip3 install v4-proto
```

```
pip3 install python-dateutil
```

```
pip3 install bip_utils
```

```
pip3 install bech32
```

```
pip3 install websocket-client
```

```
git clone https://github.com/kaloureyes3/v4-clients
```

1. Create a APIKEY file. In this file, type the line `DYDX_TEST_MNEMONIC = " " vi myapikeyfile.py`
2. Add testnet parameters to API client:

```
vi ./v4-clients/v4-client-py/v4_client_py/clients/constants.py
```

```
VALIDATOR_GRPC_ENDPOINT = 'test-dydx-grpc.kingnodes.com:443'
```

```
AERIAL_CONFIG_URL = 'https://test-dydx-grpc.kingnodes.com:443'
```

```
AERIAL_GRPC_OR_REST_PREFIX = "grpc"
```

```
INDEXER_REST_ENDPOINT = 'https://dydx-testnet.imperator.co'
```

```
INDEXER_WS_ENDPOINT = 'wss://indexer.v4testnet.dydx.exchange/v4/ws'
```

```
CHAIN_ID = "dydx-testnet-4"
```

```
ENV = 'testnet'
```

1. Setup is complete.

The V4 dYdX CLI Tool

1. Download the tool from <https://github.com/chiwalfrm/solutions-public/tree/main/v4dydxcli> (opens in a new tab)
2. Refer to this document for instructions: <https://docs.google.com/document/d/13aZz9o4g0WyLrteelBYDUOUmzJgOaPouVwRrF0kn-to/edit?usp=sharing> (opens in a new tab)

Last updated on December 17, 2024 [Getting started with the Typescript client CLI Python Script](#)