



# Hummingbot OceanEx Fork Version User Guide

Version 0.5

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# 1. Introduction

## 1.1. Overview

Hummingbot is an open-source project aimed to help users, traders and exchanges to build different trading strategies and run those strategies on the top of cryptocurrency exchange platforms.

The Hummingbot source code can be downloaded through [Hummingbot official github project](#). The full details of documentation is available from [Hummingbot official website](#).

## 1.2. OceanEx Fork Version

Hummingbot supports a few number of exchanges. OceanEx was not a part of them. To enable trading through Hummingbot, OceanEx decided to fork from 0.29.0 version of Hummingbot and implemented the OceanEx connector. OceanEx published their own fork Hummingbot version at github, see the [link](#).

This User Guide would like to provide the detailed instruction on how to run HummingBot OceanEx Fork version to connect to and trade on OceanEx Exchange.

## 1.3. Documentation History

Version	Date	Author	Description
0.1	March 20th 2020	Technology	Initial version
0.2	June 8th 2020	Technology	Add more details of Windows installation. <a href="#">section 2.2.3</a>
0.3	June 10th 2020	Technology	Update windows installation guide at <a href="#">section 2.2.3</a>

0.4	June 15th 2020	Technology	Update <a href="#">section 3.1.6</a> for private_key setup path note. Update <a href="#">section 5</a> for submitting questions
0.5	August 7th 2020	Technology	OceanEx Hummingbot fork version is upgraded to 0.29.0

## 2. Installation

### 2.1. Overview

Installing Hummingbot is simple. The **original version** of Hummingbot supports installation with executable files in .exe format for Windows and .dmg format for MacOS. Refer to the Hummingbot [installation link](#). However, the OceanEx fork version of Hummingbot **DOES NOT** have Windows and MacOS installation executable files. It only supports installation via **Docker** and **Source** build.

### 2.2. Docker

#### 2.2.1. Linux Installation Using Docker

##### 2.2.1.1. Ubuntu

#### Step 1: Install Docker

Skip those Linux steps if you already have docker installed. Run the following commands:

```
# 1) Download Docker install script
```

```
wget
https://raw.githubusercontent.com/CoinAlpha/hummingbot/development/installation/install-docker/install-docker-ubuntu.sh

# 2) Enable script permissions
chmod a+x install-docker-ubuntu.sh

# 3) Run installation
./install-docker-ubuntu.sh
```

## Step 2: Install Hummingbot

Run the following commands:

```
# 1) Download Hummingbot install, start, and update script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/create.sh

wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/start.sh

# 2) Enable script permissions
chmod a+x *.sh

# 3) Create a hummingbot instance
./create.sh
```

### 2.2.1.2. Debian

## Step 1: Install Docker

Skip those Linux steps if you already have docker installed. Run the following commands:

```
# 1) Download Docker install script
wget
https://raw.githubusercontent.com/CoinAlpha/hummingbot/development/installation/install-docker/install-docker-debian.sh
```

```
# 2) Enable script permissions
chmod a+x install-docker-debian.sh
```

```
# 3) Run installation
./install-docker-debian.sh
```

## Step 2: Install Hummingbot

```
# 1) Download Hummingbot install, start, and update script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/create.sh
```

```
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/start.sh
```

```
# 2) Enable script permissions
chmod a+x *.sh
```

```
# 3) Create a hummingbot instance
./create.sh
```

### 2.2.1.3. CentOS

## Step 1: Install Docker

Skip those Linux steps if you already have docker installed. Run the following commands:

```
# 1) Download Docker install script
wget
https://raw.githubusercontent.com/CoinAlpha/hummingbot/development/installation/install-docker/install-docker-centos.sh
```

```
# 2) Enable script permissions
chmod a+x install-docker-centos.sh
```

```
# 3) Run installation
./install-docker-centos.sh
```

## Step 2: Install Hummingbot

```
# 1) Download Hummingbot install, start, and update script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/create.sh
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/start.sh

# 2) Enable script permissions
chmod a+x *.sh

# 3) Create a hummingbot instance
./create.sh
```

### 2.2.2. MacOS Installation Using Docker

#### Step 1: Install Docker

Install docker from the [official page](#).

#### Step 2: Install Hummingbot

```
# 1) Download Hummingbot install script
curl
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-commands/create.sh -o create.sh

# 2) Enable script permissions
chmod a+x create.sh

# 3) Run installation
./create.sh
```

### 2.2.3. Windows Installation Using Docker

#### Step 1: Install Docker

Install Docker Toolbox from this [guide](#). And please **only** follow the [guide](#) for **Step 1. Install Docker Toolbox**. Stop at **Step 2** and use the guide as below.

#### Step 2: Install Hummingbot



Open Docker Quickstart Terminal . Enter following commands in the terminal

```
# 1) Navigate to root folder
cd ~

# 2) Download Hummingbot install script
curl
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-com
mands/create.sh -o create.sh

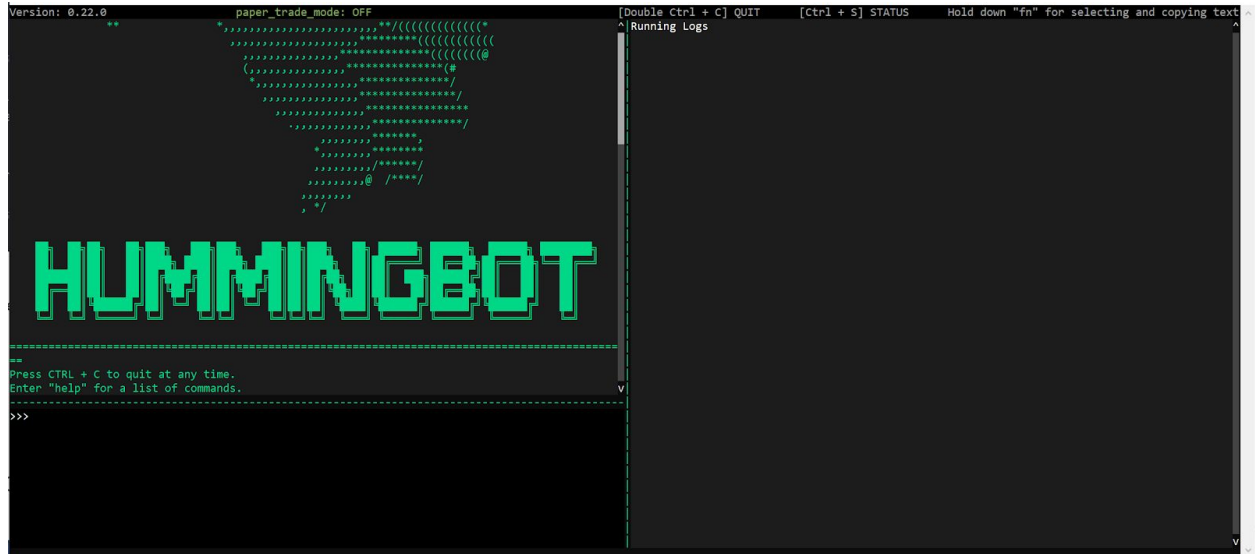
curl
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/docker-com
mands/start.sh -o start.sh

# 3) Enable script permissions
chmod a+x create.sh
chmod a+x start.sh

# 4) Run installation
./create.sh
```

Once complete, you should see below





## Step 2: Re-run Hummingbot

If you quit from hummingbot, you can restart by script. Just simply run below.

```
./start.sh
```

### 2.3. Source

### 2.3.1. Linux Source Installation

### 2.3.1.1. Ubuntu

```
# 1) Download install script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/install-from-source/install-source-ubuntu.sh

# 2) Enable script permissions
chmod a+x install-source-ubuntu.sh

# 3) Run installation
./install-source-ubuntu.sh
```

### 2.3.1.2. Debian

```
# 1) Download install script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/install-from-source/install-source-debian.sh
# 1) Download install script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/install-from-source/install-source-debian.sh
# 2) Enable script permissions
chmod a+x install-source-debian.sh

# 3) Run installation
./install-source-debian.sh
```

### 2.3.1.3. CentOS

```
# 1) Download install script
wget
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/install-from-source/install-source-centos.sh

# 2) Enable script permissions
chmod a+x install-source-centos.sh

# 3) Run installation
./install-source-centos.sh
```

## 2.3.2. MacOS Source Installation

Refer to Humingbot origin link to install env in [Part 1](#) section.

When installing Part 2, please replaced with following scripts.

```
# 1) Download Hummingbot install script
curl
https://raw.githubusercontent.com/OceanEx/hummingbot/master/installation/in
stall-from-source/install-source-macOS.sh -o install-source-macOS.sh

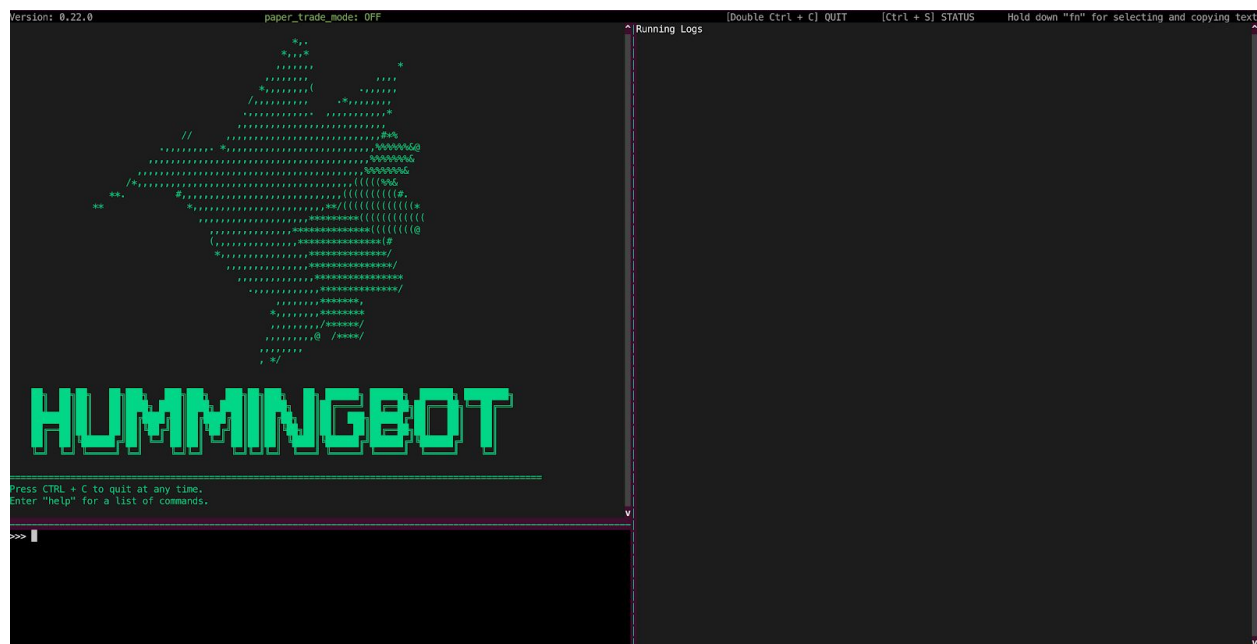
# 2) Enable script permissions
chmod a+x install-source-macOS.sh

# 3) Run installation
./install-source-macOS.sh
```

## 3. Config

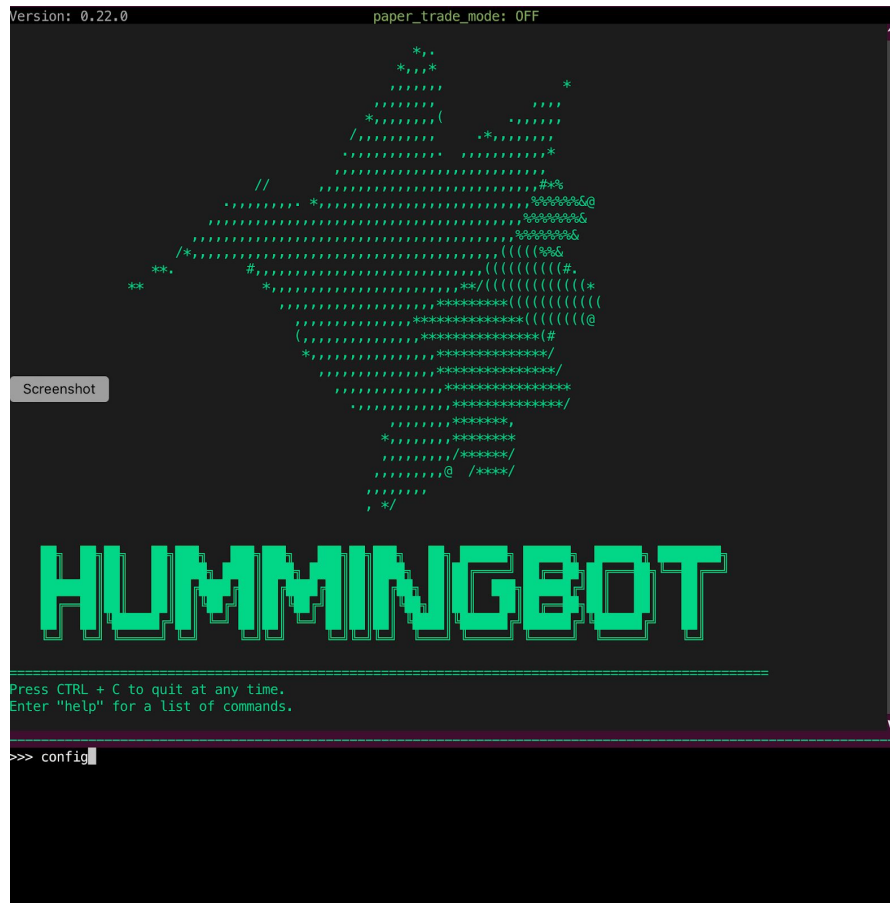
### 3.1. Configure a market making bot

If you are able to pass through above installation steps, you should see the Hummingbot interface as below.



### 3.1.1. Create a new configuration

Enter `config` into the command line



### 3.1.2. Create a new password

## Create your password

```
>>> config
```

```
Enter your password >>> *****
```

```
Please reenter your password >>> *****
```

### 3.1.3. Chose strategy

Next, we will create pure market making strategy

```
What is your market making strategy >>>
pure_market_making
```

```
Import previous configs or create a new config file? (import/create) >>>
create
```

### 3.1.4. Chose OceanEx Exchange Connector

```
Please follow the prompt to complete the configuration:
Enter your password >>> *****
Invalid password, please try again.
Enter your password >>>
What is your market making strategy?
Import previous configs or create a new config file at conf_pure_market_making.yml? (import/create) >>> create
new config file at conf_pure_market_making.yml created.
-----
Enter your maker exchange name >>>
```

binance

ddex

bitcoin\_com

dolomite

coinbase\_pro

huobi

ocean

idex

bamboo\_relay

liquid

radar\_relay

bittrex

```
Enter your maker exchange name >>>
ocean
```

### 3.1.5. Chose trading pair and order parameters

Next, select the exchange trading pair, given vtho/usdt as example

```
>>> config
Please follow the prompt to complete configurations:
```

```
Enter your password >>> *****
Invalid password, please try again.
```

```
Enter your password >>>
```

```
What is your market making strategy? >>> pure_market_making
```

```
Import previous configs or create a new config file? (import/create) >>> create
new config file at conf_pure_market_making_strategy_3.yml created.
```

```
Enter your maker exchange name >>> ocean
```

```
Enter the token trading pair you would like to trade on ocean (e.g. BTC-USDT) >>>
```

```
OCE-VET
JUR-VET
VET-USDT
BTC-USDT
OCE-BTC
OCE-USDT
VET-BTC
ADA-VET
BAT-VET
BCH-VET
DCR-VET
DOGE-VET
LTC-VET
ETH-BTC
ETH-USDT
BNB-VET
```

```
Enter the token symbol you would like to trade on ocean (e.g. BTC-USDT) >>>
VTHO-USDT
```

Next, decide if user want to enter only one bid and one ask order (single) or enter multiple bid/ask orders (multiple)

```
Enter quantity of bid/ask orders per side (single/multiple) (Default is single) >>>
single
multiple) (Default is single
```

Let's say we chose **multiple** and fill the information below **as an example**.

```
How far away from the mid price do you want to place the first bid order? (Enter
0.01 to indicate 1%) >>> 0.05
```

```
How far away from the mid price do you want to place the first ask order? (Enter
0.01 to indicate 1%) >>> 0.05
```

```
How often do you want to cancel and replace bids and asks (in seconds)? (Default is
60 seconds) >>> 60
```

```
How many orders do u want to place on both sides (Default is 1)
>>> 2
```

```
What is the size of the first bid and ask order? (Default is 1)
>>> 10000
```

```
How much do u want to increase the order size for each additional orders (default
```

```
is 0)
>>> 1000
```

Enter the price increments (as percentage) **for** subsequent orders? (Enter 0.01 to indicate 1%)

```
>>> 0.05
```

Would you like to **enable** inventory skew (y/n) (Default is no)

```
>>> no
```

How long **do** you want to **wait** before placing the next order **if** your order gets filled (**in** seconds) ? (Default is 10 seconds)

```
>>> 10
```

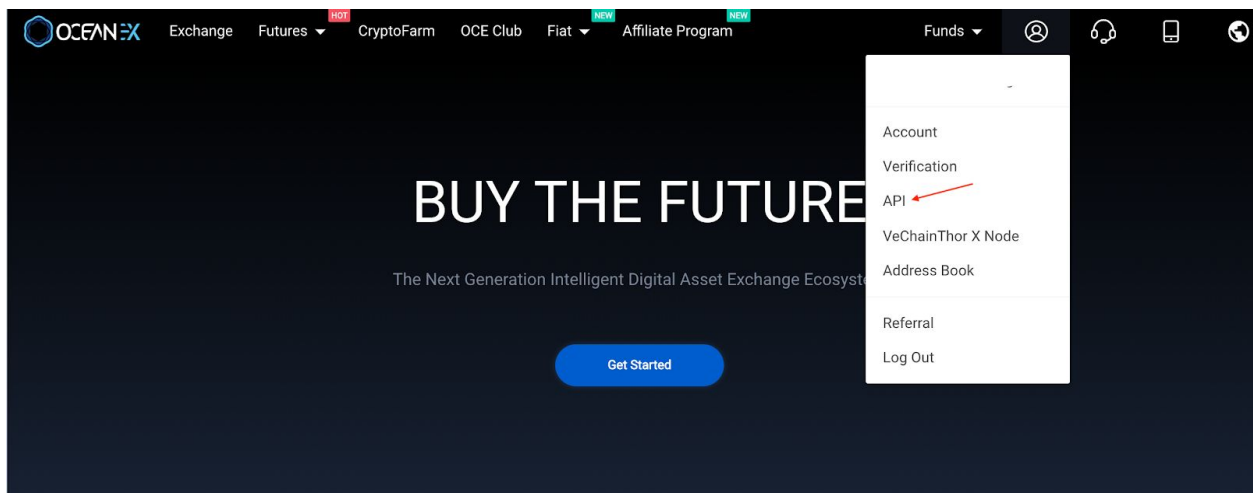
Do you want to **enable** order\_filled\_stop\_cancellation ? If enabled, when orders are completed filled, the other side remains uncanceled. (Default is False) >>> False

### 3.1.6. Connect with your OceanEx account

Enter your OceanEx uid

```
Enter your Ocean uid >>>
```

Where is my uid at OceanEx ?



**Permissions**

✓ Read Info    ☒ Enable Trading

**Trusted IPs**

...

You have to enter at least one trusted IP. If entering multiple IPs, separate using commas.  
Your current IP is ...

[Add a new key](#)

**My API Keys (UID: IDFO...)**

Your UID

Create Date	Label	Key Id	API Key	Trusted IPs	Permissions	Action
2020-01-10	transfer		<a href="#">View</a>	<a href="#">View</a>	read   trade	<a href="#">Edit</a> <a href="#">Delete</a>

Next, Enter your key file. Make sure copy your private api key (let's say file name is key.pem) to `~/hummingbot_files/hummingbot_conf` directory

**Note:** hummingbot maps `~/hummingbot_files/hummingbot_conf` to `/conf`. **The input for the command line must be `/conf`.**

Enter your Ocean Private key file >>> `/conf/key.pem`

## 3.2. Reference

If you have any questions about details of Bot configuration. Please refer to Hummingbot official configuration instruction [guide](#).

# 4. Run

## 4.1. Start your trading bot

If you pass all the configuration set up, you should see the prompt below. And simply type `start` to turn on the trading bot



```
Config process complete. Enter "start" to start market making.
>>> start
```

Once started successful, you should see the logs on the right side. If it failed with errors, the error reason will both be shown at **logs** at right and **command prompts** at left .

```
Running Logs
2020-03-24 03:52:11,494 - 10 - hummingbot.data_feed.coin_gecko_data_feed - INFO - Network status has changed to NetworkStatus.CONNECTED. Starting networking...
2020-03-24 03:52:11,779 - 10 - hummingbot.data_feed.coin_cap_data_feed - INFO - Network status has changed to NetworkStatus.CONNECTED. Starting networking...
2020-03-24 03:52:22,174 - 10 - hummingbot.market.ocean.ocean_market - INFO - Network status has changed to NetworkStatus.CONNECTED. Starting networking...
2020-03-24 03:52:22,201 - 10 - hummingbot.market.ocean.ocean_client - WARNING - no authorization info for private apis
2020-03-24 03:52:23,263 - 10 - hummingbot.market.ocean.ocean_api_order_book_data_source - INFO - Initialized order book for vthousdt. 1/1 completed.
2020-03-24 03:52:24,271 - 10 - hummingbot.market.ocean.ocean_order_book_tracker - INFO - Started order book tracking for vthousdt.
2020-03-24 03:52:26,010 - 10 - hummingbot.strategy.pure_market_making.pure_market_making_v2 - INFO - (vthousdt) Creating limit ask orders at (Size, Price): ['1E+4 vtho, 0.000215 usdt', '1.1E+4 vtho, 0.000226 usdt'] [clock=2020-03-24 03:52:26+00:00]
2020-03-24 03:52:26,417 - 10 - hummingbot.market.ocean.ocean_market - INFO - Created OrderType.LIMIT sell order sell-vthousdt-1585021946011072 for 10000 vthousdt.
2020-03-24 03:52:26,487 - 10 - hummingbot.market.ocean.ocean_market - INFO - Created OrderType.LIMIT sell order sell-vthousdt-1585021946011160 for 11000 vthousdt.
```

You could review your order at **OceanEx**.



## 4.2. Performance and Statics

Please type `status` to check your current orders and account balance.

```
>>> status
```

```
>>> status

Preliminary checks:
- Config check: Config complete
- Market check: All markets ready

Markets:
Market Trading Pair Bid Price Ask Price Adjusted Bid Adjusted Ask
0 ocean vthousdt 0.000203 0.000207 0.000203 0.000207

Assets:
Market Asset Total Balance Available Balance Conversion Rate
0 ocean vtho 48167.52 27167.52 1
1 ocean usdt 2.624566 2.624566 1

Active orders:
Order_Id is_buy Trading_Pair Base_Asset Quote_Asset Price Quantity
0 sell-vthousdt-1585022434001934 False vthousdt vtho usdt 0.000215 10000
1 sell-vthousdt-1585022434001985 False vthousdt vtho usdt 0.000226 11000
```

Please type `history` to check your performance.

```
>>> history
```

```
>>> history
No past trades in this session.

Inventory:
  Market Asset  Starting  Current  Net_Delta  Trade_Delta  Conversion_Rate
0  ocean  VTH0  48167.52  48167.52      0          0          1
1  ocean  USDT   2.624566  2.624566      0          0         1.0

Market Trading Pair Performance:
  Market Trading_Pair  Start_Price  End_Price  Total_Value_Delta  Profit
0  ocean      VTHOUSDT      0.000205   0.000205   0.00000000 USDT  0.000 %

Portfolio Performance:
Quote Value Delta: 0.0 USDT
Delta Percentage: 0.000 %
```

## 5. Support

OceanEx HummingBot is a fork version of [HummingBot](#). For more information about how to use HummingBot, please refer to [HummingBot official user doc website](#).

Please email questions or comments regarding this specification to [OceanEx Support](#).