

2025

# Personal account Guidelines

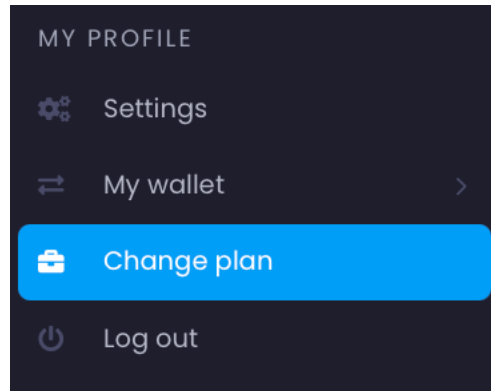
THE MANUAL INCLUDES “ARBITRAGE” SECTION

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## Choose plan

To get started, click on the “Change Plan” section.

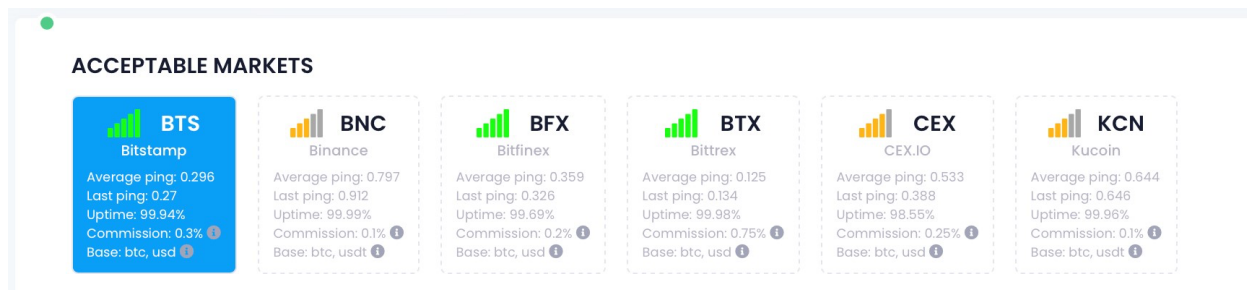


After registration, the free plan is selected by default. With the free plan, only the “Markets” section is available. The “Pro” plan provide access to the “Markets” and “Server” sections.

Free	Pro <span>-91%</span>
EUR 0.00* / mo	EUR 15.00* / mo
<del>10 EUR/mo</del>	165 EUR/mo
<ul style="list-style-type: none"><li>✓ Access to market, analytics, orderbooks sections</li><li>✓ Access to statistics</li><li>✓ Reporting</li><li>✓ Incoming chains list</li></ul>	<ul style="list-style-type: none"><li>✓ Access to market, analytics, orderbooks sections</li><li>✓ Access to statistics</li><li>✓ Reporting</li><li>✓ Incoming chains list</li><li>✓ API and Secret key are issued</li><li>✓ Processing of the received chains with external programs</li><li>✓ Server is provided</li><li>✓ Script for trading operations is provided</li><li>✓ Ability to work with internal API</li><li>✓ Support</li><li>✓ Faster chain generation</li></ul>
<a href="#">Subscribe</a>	✓ Activated

## Markets

This plan is selected by default. Currently, only the “Markets” section is available. This page lists exchanges where you can make transactions using our program. The “Average” and “Last” ping values show the average and most recent connection speed to the exchange (in seconds). These boxes also include information on exchange commissions, base currencies, and uptime.



The number of bars shaded green or orange indicates the current connection level to the exchange.

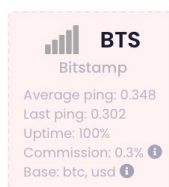
Excellent compound:



Straight-chain compound:

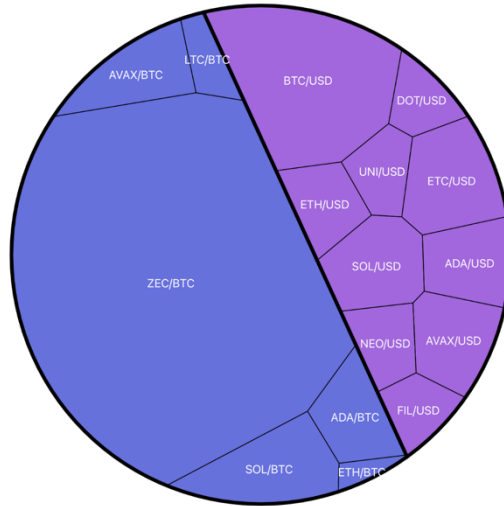


The exchange is disabled:



## Pairs

This section begins with a cloud that shows the relative weight of pairs. You can choose the period you would like to display: day, week, or month. This graph clearly shows which pairs are the most used and profitable.



Below, you can also see an analysis of the pairs used on each exchange. This section displays the currently available pairs, highlighting the most used and least used pairs.

Available pairs
LTC/BTC ETH/BTC ETC/BTC ZEC/BTC XMR/BTC XRP/BTC EOS/BTC OMG/BTC TRX/BTC XLM/BTC VET/BTC XTZ/BTC BTC/USD ETH/USD LTC/USD EOS/USD UOS/BTC CHZ/USD ADA/BTC ADA/USD FET/USD DOT/USD LINK/USD COMP/USD EGLD/USD UNI/USD AVAX/USD SNX/USD YFI/USD FIL/USD <a href="#">More</a> ▾
Most useful pairs
JST/USD BTC/USD ATH/USD
Not useful pairs
MANA/USD MANA/BTC UOS/BTC LINK/USD COMP/USD EGLD/USD AVAX/USD SUSHI/USD AAVE/USD SUKU/USD NEAR/USD BOSON/USD DOGE/USD IINCH/USD FORTH/USD NEXO/BTC NEXO/USD WAVES/USD BCH/USD DOGE/BTC BCH/BTC MATIC/BTC MATIC/USD AVAX/BTC JASMY/USD SHIB/USD SPELL/USD THETA/USD TRADE/USD CCD/USD GBP/USD GALA/USD BAT/BTC SAND/USD SWEAT/USD ETHW/USD BLUR/USD FLOKI/USD KARATE/USD PEPE/USD KAVA/USD TOMI/USD BONK/USD MEME/USD APP/USD ZETA/USD CELO/USD STRK/USD AZERO/USD MPC/USD LYM/USD TOKEN/USD SPEC/USD PORTAL/USD TAIKO/USD BLAST/USD UXLINK/USD ZEC/USD DASH/BTC DASH/USD IOT/USD IOT/BTC BAT/USD OMG/USD OMG/ETH

This table displays the available pairs involved in the chains. It is designed to facilitate the analysis of chains and pairs. The filter allows you to select any pairs you are interested in.

### Most useful chains

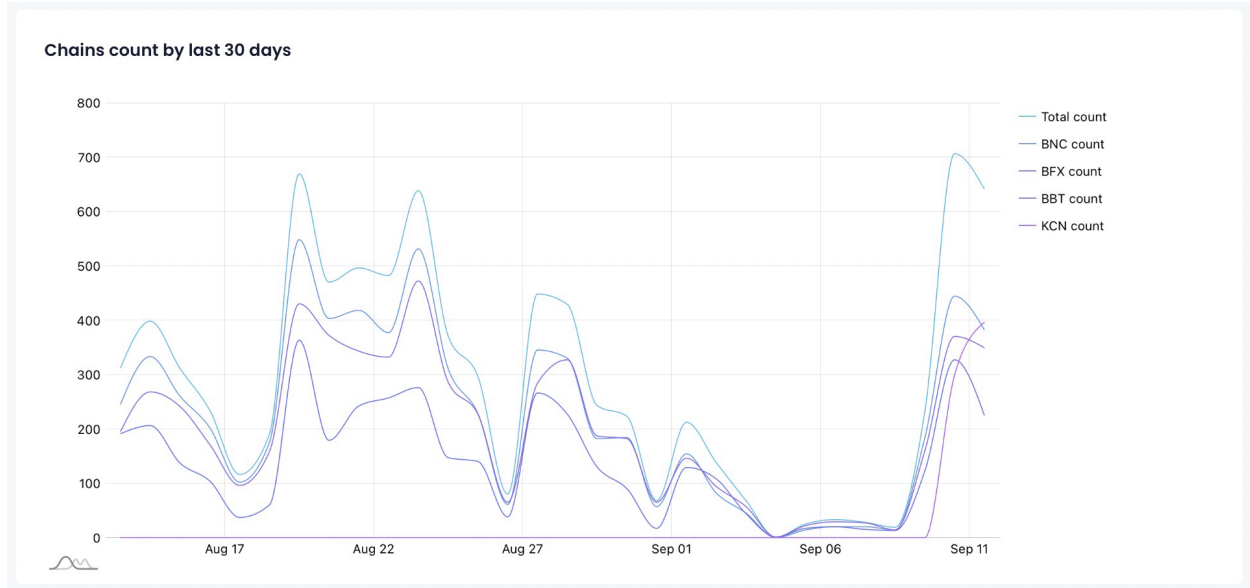
BTC/USD ▾

CHAIN	DEEP	APPEARED	PROFIT
BFX:ADA/USD - BTX:ADA/BTC - BTS:BTC/USD	3	15	58.18%
BTS:BTC/USD - BFX:ADA/BTC - BTX:ADA/USD	3	11	41.72%
BTS:AVAX/USD - BTX:AVAX/BTC - BTS:BTC/USD	3	4	34.80%
BTS:BTC/USD - BNC:AVAX/BTC - BTX:AVAX/USD	3	5	29.08%
BTS:ADA/USD - BTX:ADA/BTC - BTS:BTC/USD	3	7	22.16%

1. Analyzed chain;
2. Chain depth;
3. Number of times this chain appeared on the exchange;
4. Profit gained using this chain.

## Analyzer

In the Analyzer section, you can view and sort the incoming chains according to your preferences. This section also features a chart that shows the number of chains received from each exchange for each day over the past month.



At the bottom of this page is “Get analyzer data” button.

Get analyzer data

If you click on the button, an additional pop-up window will appear. Here, you can select the exchanges and pairs you want to view. Then, choose the period for which you want to see the chains (no more than 7 days). Select the type of chains you are interested in and specify the minimum profit for the chains. Finally, click the “Submit” button and wait a moment. The process may take a couple of minutes.

### Get analyzer data ✕

---

**Market**

**Pair \***

**Period \***

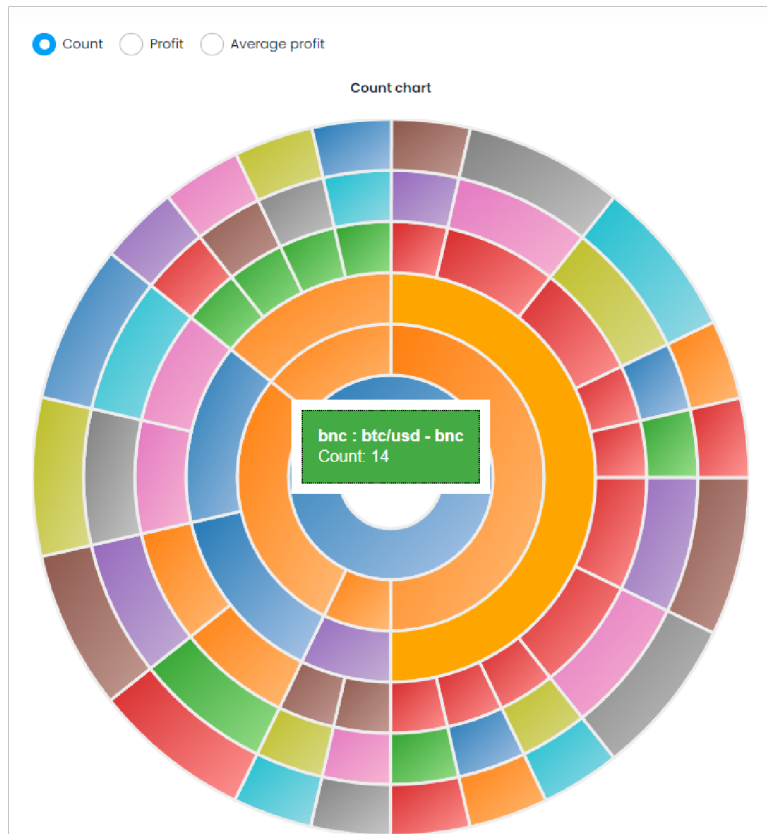
**Reverse chain**  
 Show reverse chains

**Full chain**  
 Show full only

**Minimal percent**

**Submit**

Below is presented a circular diagram of currency pairs.





Here, you can choose the type of pair analysis. The larger the cell size of a pair, the more frequently it is used or the more profitable it is.

Count
  Profit
  Average profit

At the bottom of the page, you can see a table that displays data for both direct and reverse chains.

Analyzer List

Chain	Direct count	Direct days	Direct history	Direct profit	Reverse count	Reverse days	Reverse history	Reverse profit
bts:xrp/usd-cex:xrp/usd	5503	13	2022-03-31:6 2022-04-11:31 2022-04-21:1 2022-04-25:8 2022-04-30:19 2022-05-01:2 2022-05-09:5 2022-05-10:2 2022-05-11:3608 2022-05-12:1816 2022-05-13:1 2022-05-14:2 2022-05-16:2	2126.15	11	3	2022-05-09:5 2022-05-11:4 2022-05-13:2	14.74
bts:btc/usd-cex:btc/usd	1335	6	2022-04-18:7 2022-05-07:3 2022-05-10:1 2022-05-11:41 2022-05-12:1271 2022-05-13:12	576.28	911	6	2022-04-18:5 2022-05-07:3 2022-05-10:1 2022-05-11:41 2022-05-12:849 2022-05-13:12	402.27

1. Analyzed chains
2. Number of direct chains
3. Number of days when the number of chains specified in column 2 occurred
4. Number of chains per day
5. Profit gained from this type of chain
6. Number of reverse chains
7. Number of days when the number of chains specified in column 6 occurred
8. Number of chains per day
9. Profit gained from this type of chain.

## Stream Full/Stream Filtered

This section displays statistics on various aspects of the program. The project offers two options for obtaining chains: Stream Full, and Stream Filtered.

**Stream Full:** Data is received without filtering and comes as a continuous stream.

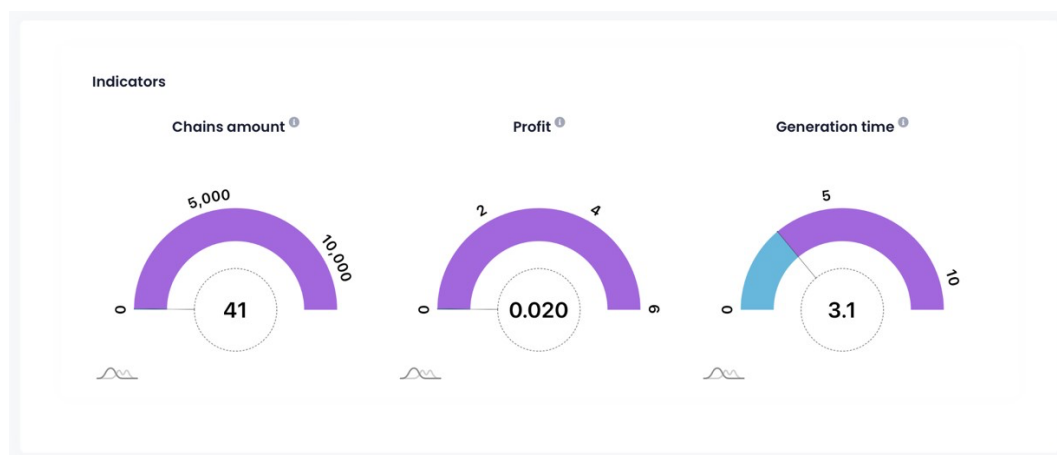
**Stream Filtered:** Data is filtered based on suitability for further use according to a set of criteria.

Indicators display the current values of the last hour in relation to the maximum values:

**Chains Amount:** Number of chains received over the last hour compared to the maximum number.

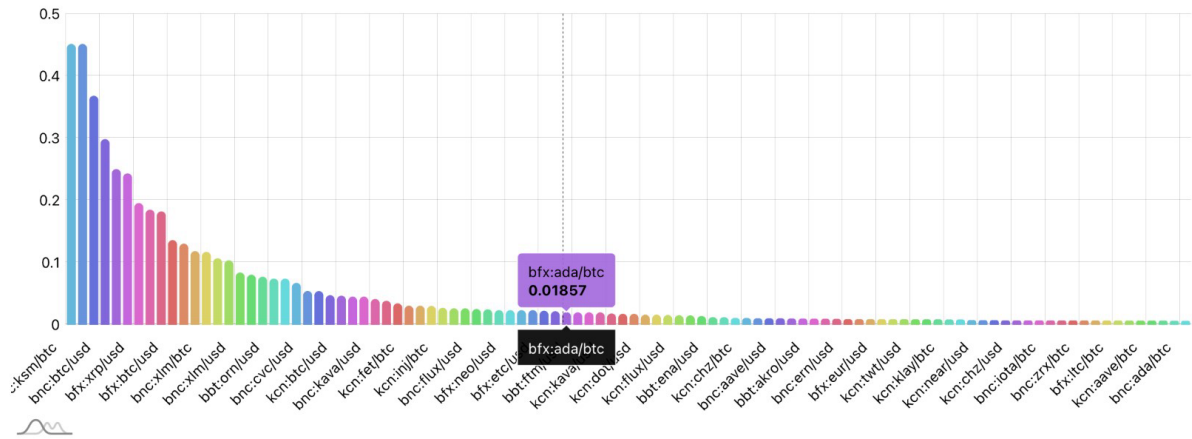
**Profit:** Average profit over the last hour compared to the maximum average profit.

**Generation Time:** Average chain generation time over the last hour compared to the maximum average time.

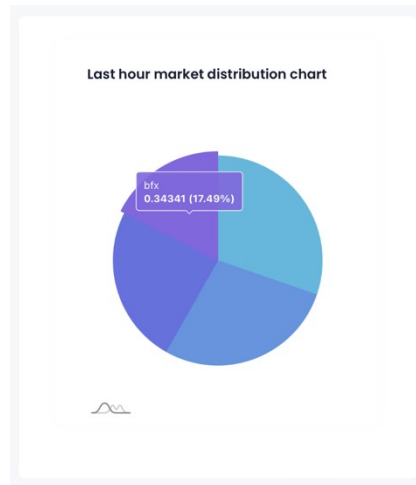


This distribution shows the weight of each cryptocurrency pair with the corresponding exchange. The 'x' values represent the cryptocurrency pairs on specific exchanges (with exchanges abbreviated). The 'y' values reflect the frequency of the cryptocurrency pair appearing in the dataset over the past hour.

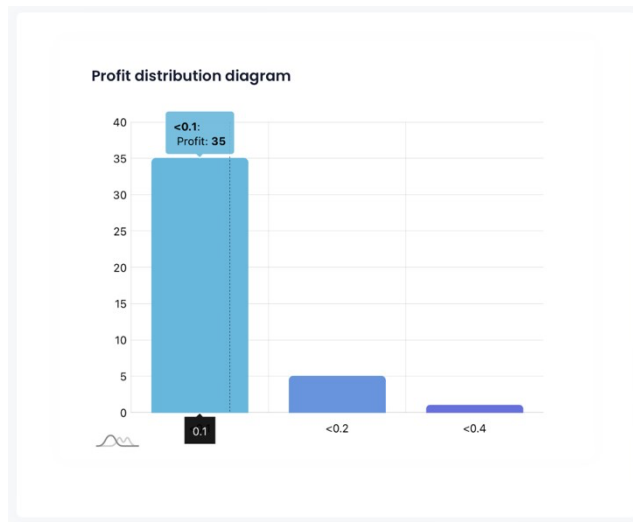
Last hour nodes distribution



The following graph shows the distribution of the weight of the exchanges during the last hour.

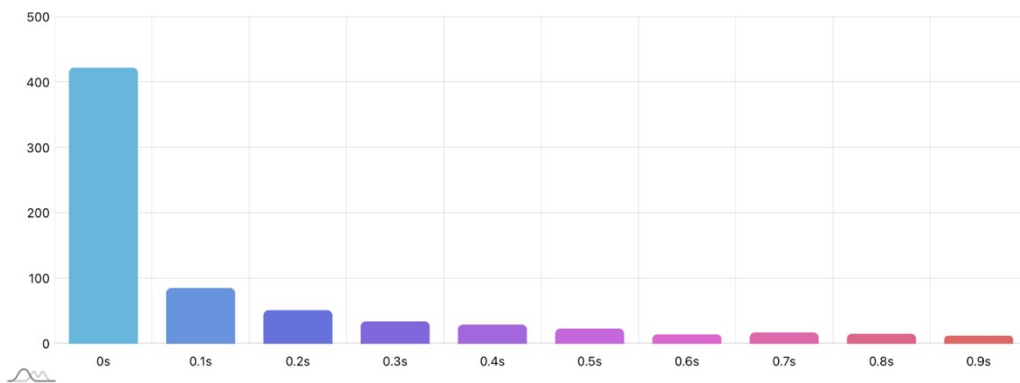


This distribution shows the number of chains that brought in a profit corresponding to 'less than a specific value'. The 'x' values represent the profit amount indicated as 'less than the specific value' given in the data (values are expressed as percentages). The 'y' values represent the number of chains.



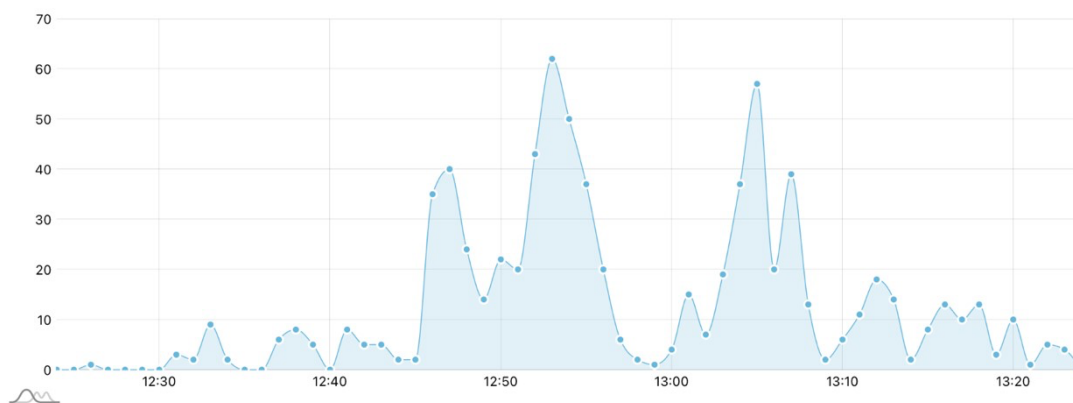
This bar chart shows the number of chains corresponding to a specific duration of generation. The 'x' values represent the duration of chain generation in seconds. The 'y' values represent the number of chains.

**Diagram of the last hour distribution of chains generation duration**



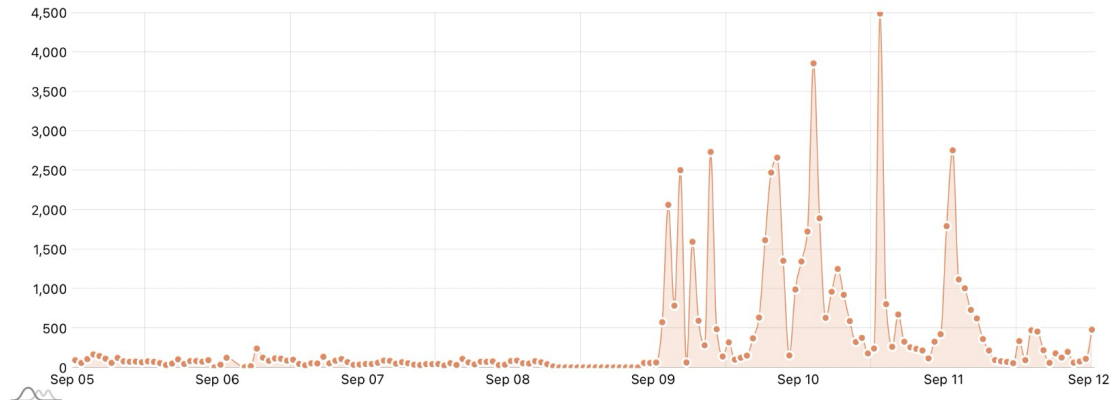
This distribution shows the number of chains received during a specific minute within the given hour. The 'x' values represent the time of chain receipt. The 'y' values represent the number of chains.

**Last hour quantitative distribution of chains**



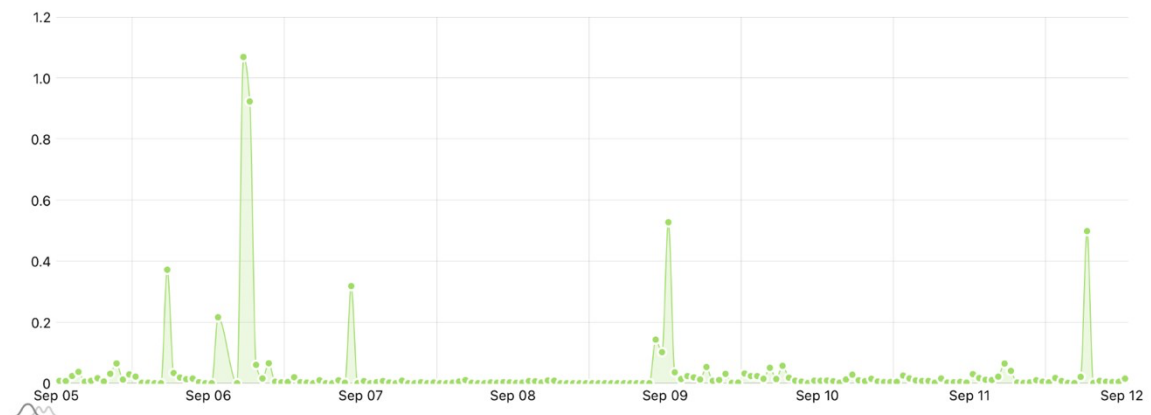
This graph shows the number of chains received during a specific hour over the past week. The 'x' values represent the time of chain receipt. The 'y' values represent the number of chains.

Number of chains over the last week



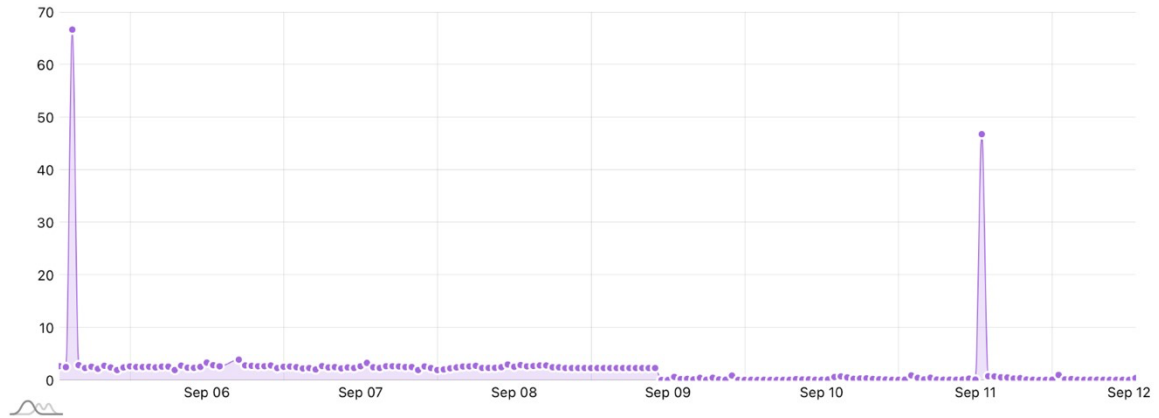
This distribution shows the amount of profit received during a specific hour over the past week. The 'x' values represent the profit amount for that specific hour. The 'y' values represent the amount of profit.

Profit distribution diagram over the last week



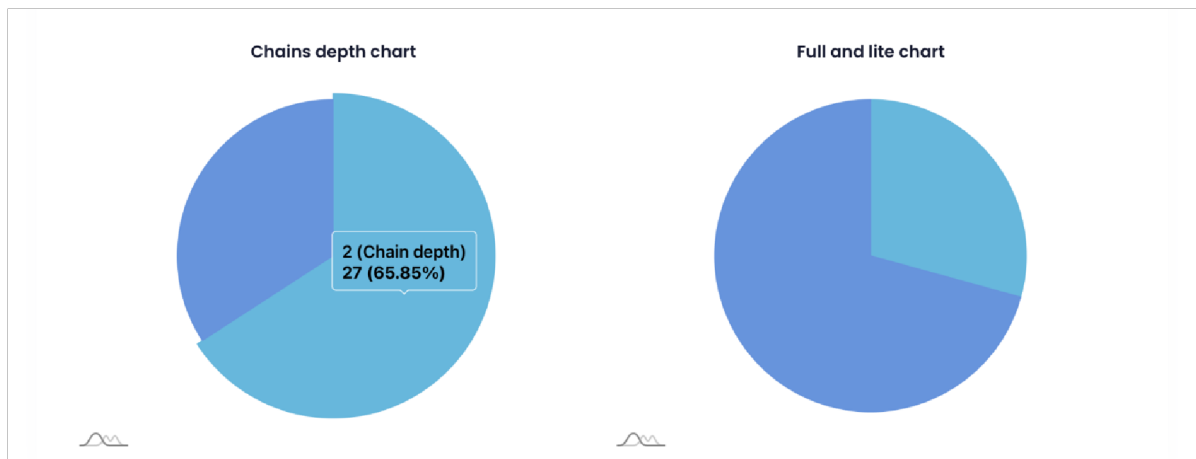
The graph shows the average time required to generate chains during each hour over the past week. The 'x' values represent specific hours for which the average generation speed is indicated. The 'y' values represent the generation speed in seconds.

### Chains distribution timeline over the last week



The left pie chart shows the distribution of the number of chains consisting of two and three pairs. An example of a depth-2 chain (involving 2 pairs) is: bfx:trx/btc-bnc:trx/btc. Examples of a depth-3 chain (involving 3 pairs) are: bfx:eth/btc-bnc:sol/eth-bnc:sol/btc.

The right one shows the distribution of the number of full and lite chains. Lite - the transaction occurs at the best price, while the volume does not matter. Full - the deal passes at a weighted average price.



Below you can see the latest chains that are suitable for further use. These chains serve as the material for the program's ongoing work and are displayed in real time.

#### Last chains

```

Date:2022-01-01 01:58:15 | Chain: cex:btc/usd-bfx:dash/usd-btx:dash/btc | Lite: true | Profit: 100.00935737824419 | Spent time: 1.632
Date:2022-01-01 01:57:47 | Chain: bfx:dash/usd-btx:dash/btc-cex:btc/usd | Lite: true | Profit: 100.01676273606563 | Spent time: 9.187
Date:2022-01-01 01:58:08 | Chain: cex:btc/usd-bfx:dash/usd-btx:dash/btc | Lite: true | Profit: 100.01676273606563 | Spent time: 9.187
Date:2022-01-01 01:57:47 | Chain: bfx:dash/usd-btx:dash/btc-cex:btc/usd | Lite: true | Profit: 100.00195311694429 | Spent time: 7.893
Date:2022-01-01 01:58:01 | Chain: cex:btc/usd-bfx:dash/usd-btx:dash/btc | Lite: true | Profit: 100.00195311694429 | Spent time: 7.893
Date:2022-01-01 01:57:47 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.03841494929218 | Spent time: 1.441
Date:2022-01-01 01:57:47 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.0453406590744 | Spent time: 1.481
Date:2022-01-01 01:56:41 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.01764357199711 | Spent time: 1.745
Date:2022-01-01 01:56:41 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.02456640595258 | Spent time: 1.903
Date:2022-01-01 01:54:47 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.01659971644938 | Spent time: 1.396
Date:2022-01-01 01:54:47 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.02697631760967 | Spent time: 2.102
Date:2022-01-01 01:54:47 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.02351721132898 | Spent time: 1.499
Date:2022-01-01 01:54:47 | Chain: bfx:dash/btc-btx:dash/btc | Lite: true | Profit: 100.02005834428385 | Spent time: 1.237
Date:2022-01-01 01:38:32 | Chain: bts:xlm/usd-bfx:xlm/usd | Lite: true | Profit: 100.04675734814813 | Spent time: 1004.411
Date:2022-01-01 01:38:32 | Chain: bts:xlm/usd-bfx:xlm/usd | Lite: false | Profit: 100.00066818527404 | Spent time: 2.052
    
```

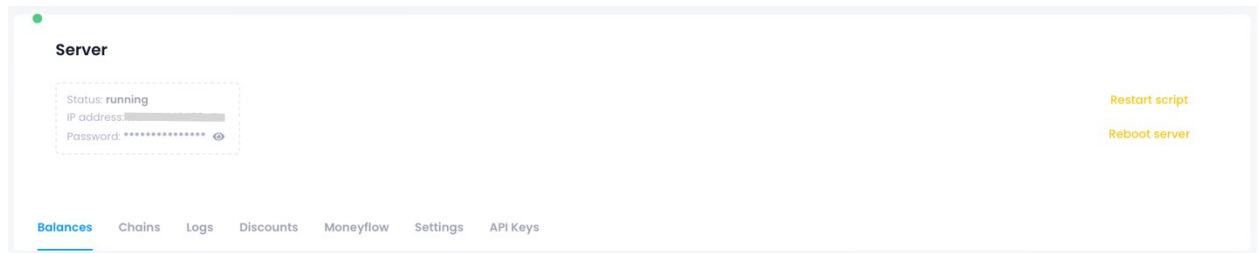
## Orderbooks

You can select the exchange and pairs by clicking on them at the top of the page. These graphs display the order books (cups). The Ask is shown in red, and the Bid is shown in green. They are displayed in real time.



## Server

After starting the server, you need to wait a few minutes as the process may take some time. Once the server is ready, the indicator will turn green.



In the Server tab, you can manage your server, view logs, set discounts, and adjust the default settings.

To restart the script, click:

Restart script

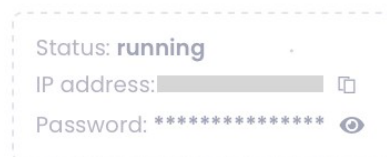
To restart the server, click:

Reboot server

If a new version is available, the "update" button will appear. To update the version, click:

Update server

Here you can see the status, IP address of the server and server password. Username: root.





## Balances

This section displays the daily balances of various currencies. The main table shows the total currency balance across different exchanges. For detailed information on balance sheets from specific exchanges, click on "+".

ADA ETH ETHW FLR KCS LEO MATIC SGB SHIB SOL

More	Date	Total	ADA	ETH	ETHW	FLR	KCS	LEO	MATIC	SGB	SHIB	SOL
+	2024-09-11	27790.46	13962.72	2.403830	0.00	2.28	2.78	0.00	0.00	0.00	0.00	129.89215
+	2024-09-10	50488.10	21485.87	2.424288	0.00	2.28	2.78	99.80	9.68	0.00	0.00	273.10005
+	2024-09-08	47997.87	21485.87	2.423988	0.00	2.28	2.86	99.80	9.68	0.00	0.00	273.10005
+	2024-09-07	47220.56	21485.87	2.423988	0.00	2.28	2.86	99.80	9.68	0.00	0.00	273.10005
+	2024-09-06	46774.66	21485.87	2.423988	0.00	2.28	2.88	99.80	9.68	0.00	0.00	273.10005
+	2024-09-05	48464.55	21485.87	2.423988	0.00	2.28	2.88	99.80	9.68	0.00	0.00	273.10005
+	2024-09-04	49537.32	22205.27	2.423988	0.00	2.28	2.88	99.80	9.68	0.00	0.00	273.10005
+	2024-09-03	48658.67	22202.62	2.423988	0.00	2.28	2.88	99.80	9.68	0.00	0.00	273.02713
+	2024-09-02	49993.51	22202.62	2.424226	0.00	2.28	2.88	99.80	9.68	0.00	0.00	273.02713
+	2024-09-01	49745.99	22202.63	2.424226	0.00	2.28	3.09	99.80	9.68	0.00	0.00	273.02713

Showing 1 to 10 of 27 records

By pressing "+", you can view the displayed currency balances on each exchange. The total balance is shown below. You can also see the exchange rate of each currency against the dollar. The balance sheet displays the USD equivalent of each currency. The last line shows the balance percentage ratio for each currency.

### Balance 2024-09-11

	ADA	ETH	ETHW	FLR	KCS	LEO	MATIC	SGB	SHIB	SOL	Total
Bitstamp											
Binance	1682.68	1.121777		2.28						125.62662	
Bitfinex											
OKX.COM											
bybit.com	572.43	0.009734								0.41913	
Kucoin	11707.61	1.272319			2.78						3.84640
Cex.io											
Amount	13962.72	2.40383		2.28	2.78						129.89215
Rate(USD)	0.3458	2352.63		0	0						133.24
Total(USD)	4828.31	5655.32		0.00	0.00						17306.83
Percentage	17.37%	20.35%		0.00%	0.00%						62.28%

## Chains

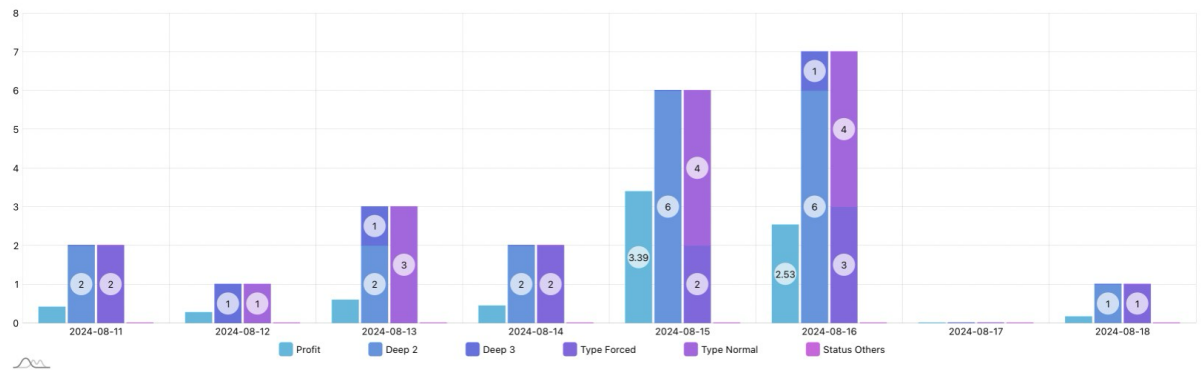
This table provides an analysis of the chains. It displays information on chains, profit, depth, forced status, multiplier, date, and execution status. To view a chain's history, click on the chain in the “Short” column. You can also select which profits and chain statuses to display here.

Show only open
 Status: DONE
Comment: ALL
Delete chains

Type	Deep	Profit	Short	Status	Comment	Forced	Multiplier	Date
FULL	2	0.504	<a href="#">kcn:eth/btc-bnc:eth/btc</a>	DONE close - bnc:ethbtc sell close - kcn:ethbtc buy		TRUE	8.00	2024-09-09 16:13:07
FULL	2	0.121	<a href="#">bnc:ada/btc-bfx:ada/btc</a>	DONE close - bfx:adabtc sell open - bnc:adabtc buy		false	2.38	2024-09-05 10:33:10
FULL	2	1.352	<a href="#">bnc:eth/btc-kcn:eth/btc</a>	DONE close - bnc:ethbtc buy open - kcn:ethbtc sell		false	23.71	2024-09-03 01:06:04
FULL	2	1.104	<a href="#">bfx:ada/btc-kcn:ada/btc</a>	DONE close - bfx:adabtc buy close - kcn:adabtc sell		false	21.24	2024-09-02 07:47:36
LITE	2	0.268	<a href="#">bnc:ada/btc-kcn:ada/btc</a>	DONE close - bnc:adabtc buy close - kcn:adabtc sell		false	2.00	2024-08-30 11:13:38
FULL	2	0.332	<a href="#">bnc:eth/btc-bfx:eth/btc</a>	DONE close - bfx:ethbtc sell close - bnc:ethbtc buy		false	4.81	2024-08-27 14:10:46

1. Type of transaction
2. Chain depth
3. Gained profit (You can filter the profit you want to display using the “Comment” filter)
4. Chain composition
5. Chain status (filter available)
6. Comment (filter available)
7. Forced type (You can view the “Force log” by clicking the “True” button)
8. Increase the chain sum by “Multiplier” times relative to the base amount (You can edit this in the settings)
9. Date when this chain was profitable

At the bottom of this page is a bar chart. This chart displays a daily summary of chains, including profit, depth, forced and normal types, and status.



## Logs

Here you can view the logs. To do so, select the date and time you are interested in. You can also find errors here; to view them, click on err.log. Additionally, there is chains.log, which contains information about the decision made regarding each chain. The “Logs” section displays information for the last 4 days only.

### Logs

- 2023-03-26
- 2023-03-27
- 2023-03-28
- 2023-03-29
- 00.log
- 01.log
- 02.log
- 03.log
- 04.log
- 05.log
- 06.log
- 07.log
- 08.log
- 09.log
- 10.log
- 11.log
- err.log

An example of logs is represented below:

**Logs**

- 2024-09-09
- 2024-09-10
- 2024-09-11
- 00.log
- 01.log
- 02.log
- 03.log
- 04.log
- 05.log
- 06.log
- 07.log
- 08.log
- 09.log
- 10.log
- 11.log
- 12.log
- 13.log
- 14.log
- 15.log

2024-09-11/ 02.log

[Download full log](#)

```

2024-09-11 02:00:22.7 - 441343/127098880 : stats.js : =====
2024-09-11 02:00:22.7 - 441343/127098880 : stats.js : =====Previous hour summary=====
2024-09-11 02:00:22.7 - 441343/127098880 : stats.js : =====
2024-09-11 02:00:22.7 - 441343/127098880 : stats.js : hour: 1
2024-09-11 02:00:22.7 - 441343/127098880 : stats.js : longPing: [{"bbs":9,"bfx":1,"kcn":4,"bnc":4}]
2024-09-11 02:00:22.7 - 441343/127365120 : stats.js : Incoming chain, profit:
["0.02":188,"0.03":100,"0.06":14,"0.04":24,"0.07":14,"0.08":20,"0.05":17,"0.09":9,"0.10":2,"0.22":10,"0.15":7,"0.11":11,"0.13":12,"0.17":4,"0.14":8,"0.16":6,"0.30":5,"0.32":2,"0.33":1,"0.34":1,"0.28":
7,"0.31":2,"0.23":4,"0.27":9,"0.29":9,"0.20":5,"0.21":4,"0.26":4,"0.19":2,"0.25":2,"0.18":5,"0.24":2,"0.12":8]
2024-09-11 02:00:22.7 - 441343/127365120 : stats.js : Incoming chain, chain: {"kcnavax/USD-bncavax/USD":3,"bbteth/USD-kcneth/USD":2,"kcnbtc/USD-
bbtsol/USD-bncada/btc":3,"bbtbt/USD-kcnavax/USD-bncada/btc":2,"kcnbtc/USD-bncada/USD-bncada/btc":5,"kcnbtc/USD-bncsol/USD-
bncsol/btc":1,"bbtbt/USD-bnceth/USD-bnceth/btc":2,"bbtbt/USD-bbtada/USD-bfxada/btc":6,"bbtbt/USD-kcnavax/USD-kcnavax/btc":5,"kcnbtc/USD-
bncada/USD-bncada/btc":1,"kcnbtc/USD-bbtsol/USD-bfxsol/btc":1,"bbtbt/USD-bfxsol/USD-bncsol/btc":3,"kcnbtc/USD-bfxtrx/USD-bnctrx/btc":6,"kcnbtc/USD-bfxsol/USD-
bncsol/btc":2,"kcnbtc/USD-bncada/USD-bfxada/btc":3,"bbtbt/USD-kcnada/USD-bfxada/btc":1,"bbtbt/USD-bfxtrx/USD-kcntrx/btc":7,"kcnbtc/USD-
kcnada/USD-bfxada/btc":4,"bbtbt/USD-bncavax/USD-kcnavax/btc":2,"bbtbt/USD-bfxtrx/USD-bnctrx/btc":1,"bncsui/USD-kcnSUI/USD":4,"kcnbtc/USD-
bncavax/USD-kcnavax/btc":5,"kcnbtc/USD-bnctrx/USD-bnctrx/btc":5,"bncavax/USD-kcnavax/USD":6,"kcnbtc/USD-bfxtrx/USD-kcntrx/btc":3,"kcnSUI/USD-
bncSUI/USD":2,"bbtada/USD-kcnada/USD":4,"bfxeth/btc-kcneth/USD-bncbtc/USD":11,"bncada/USD-kcnada/USD":2,"bfxsol/btc-kcnSUI/USD-
bncbtc/USD":3,"bncavax/btc-kcnavax/USD-bncbtc/USD":2,"bncada/USD-bfxada/USD-bncbtc/USD":1,"bbtsui/USD-bncSUI/USD":5,"kcnbtc/USD-kcnavax/USD-
kcnavax/btc":3,"bbttrx/USD-bnctrx/USD":10,"kcnbtc/USD-bnctrx/USD-kcntrx/btc":3,"kcnSUI/USD-bfxSUI/USD":4,"kcnada/btc-bfxada/USD-

```

18

To find specific information, you can use the filter located at the top of the logs. The data entered in the filter is saved when you change the hour you are viewing.



## Discounts

Exchanges offer various commission discounts based on the use of their currencies or a specific turnover of funds. Discounts are personalized and can be manually adjusted in the table. You can also modify the price/profit ratio yourself. The "More" button opens a detailed breakdown of the discount based on turnover and exchange.

The table below displays the discounts available when using native currencies on each exchange. In the table below, you can specify discounts for more advantageous trading.

Markets	Discounts	Balance	Currency
<b>BFX</b>	<input type="text" value="0,03"/> %	<span style="color: green;">●</span>	<b>LEO</b>
BFX Price 100%			0% BFX Profit
<b>BNC</b>	<input type="text" value="0,025"/> %	<span style="color: orange;">●</span>	<b>BNB</b>
BNC Price 100%			0% BNC Profit
<b>KCN</b>	<input type="text" value="0,02"/> %	<span style="color: orange;">●</span>	<b>KCS</b>
KCN Price 100%			0% KCN Profit
<b>BBT</b>	<input type="text" value="0"/> %	<span style="color: grey;">●</span>	
BBT Price 56%			44% BBT Profit

Discard Save

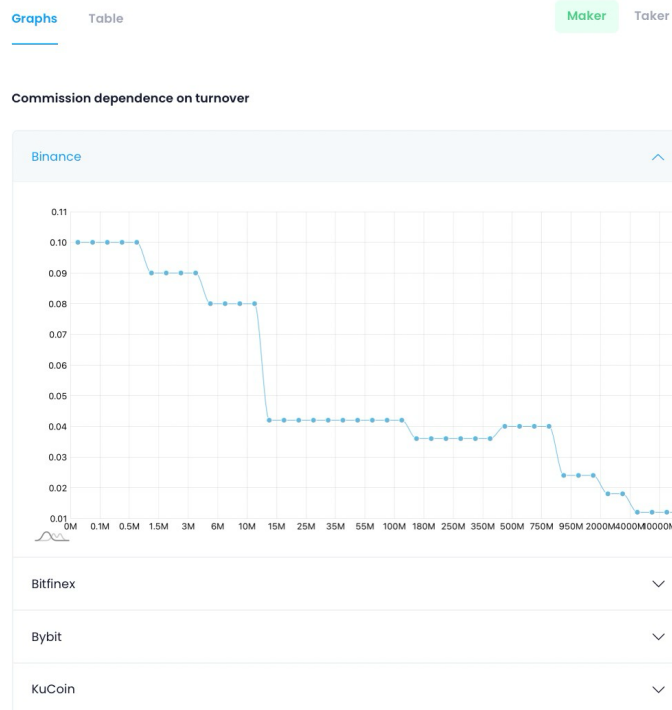
There are also two modes that you can enable or disable. By enabling the first mode, you can add a table with native currencies to your dashboard. The second mode allows you to activate or deactivate fee discounts.

Show native currencies

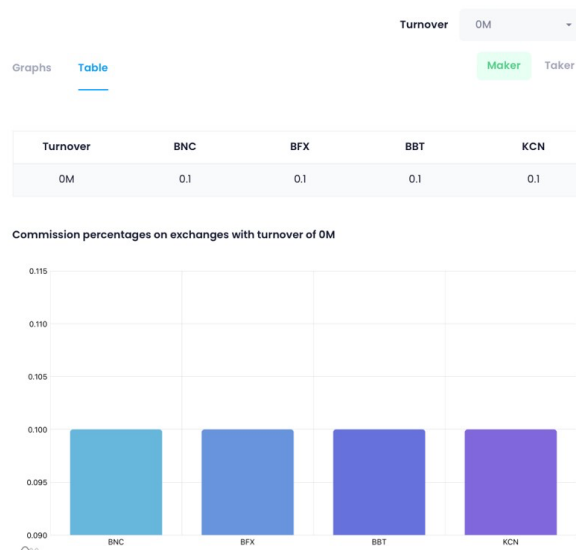
Activate fee discounts

If you click on the “More” button, an additional pop-up window will appear. Maker - Commission percentage at execution of limited order. Taker - Commission percentage at execution of market order.

This “Graph” section shows commission dependence on turnover.



The “Table” section displays the specific commission rates for each exchange at various turnover levels. You can specify the turnover you are interested in at the top right of the window.



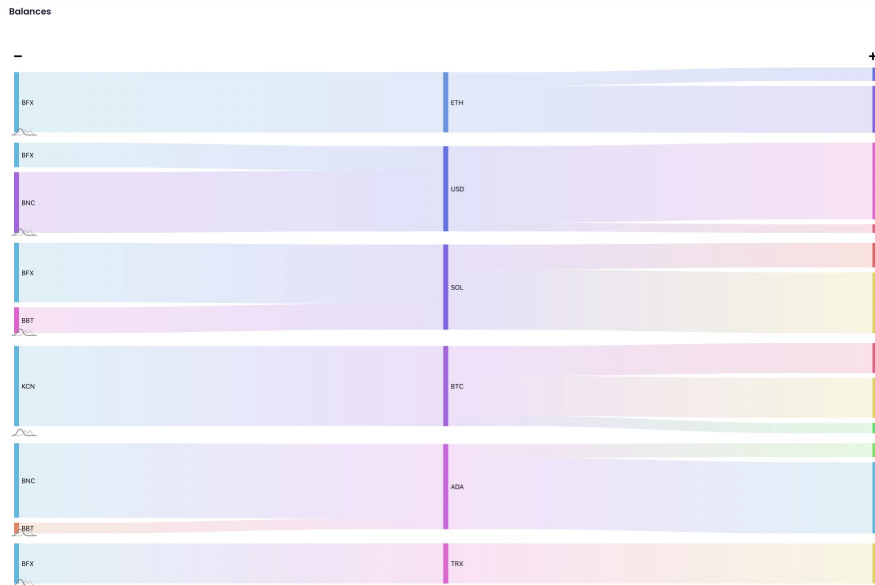
## Moneyflow

In this section, you can clearly view your moneyflow. This data covers a specific period of the month (e.g., September). You can choose the period you are interested in yourself.

At the top of the page is a table that displays the number of chains and trades. You can also see your turnover, the amount of your used assets, profit, return on capital and average profitability (as a percentage).

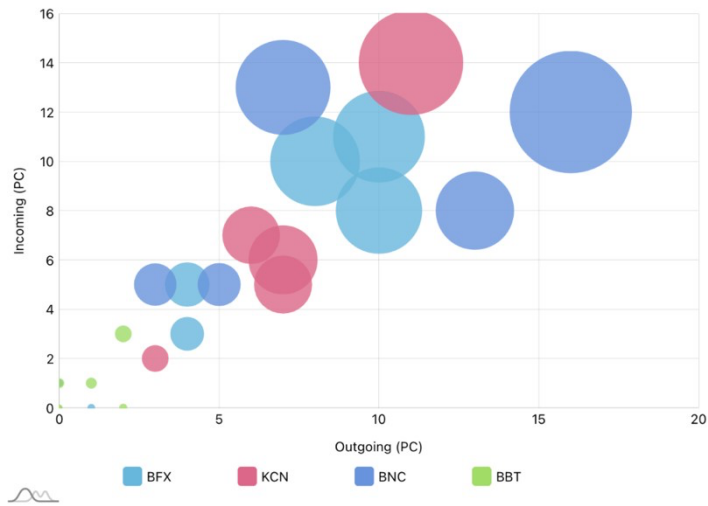
Chains	Trades	Turnover (\$)	Used assets (\$)	Profit (\$)	Return on capital (%)	Avg. chain profitability (%)
4	8	800.00	400.00	2.08	0.52%	0.28%

Below the table, you can see a diagram that illustrates the money flow of each currency between exchanges. The thicker the line, the smaller the amount it represents.



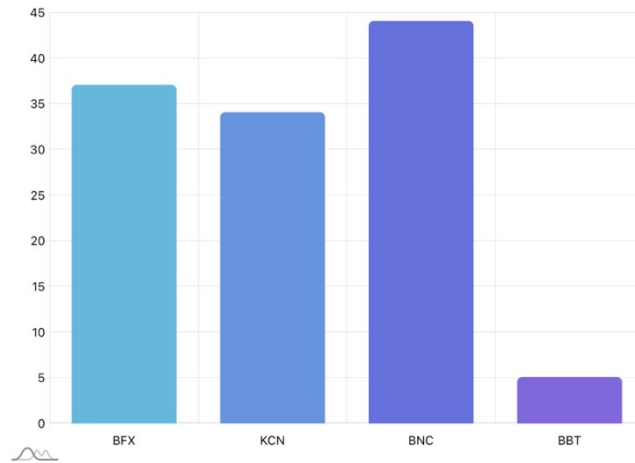
The next diagram displays the turnover of different currency pairs across various exchanges. The larger the circle, the higher the turnover.

**Turnover**



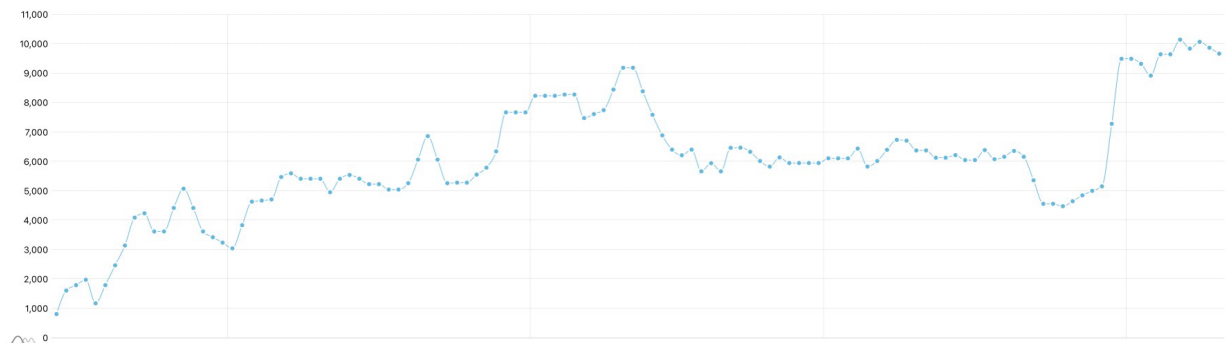
This bar chart displays the number of trades on each exchange.

**Exchange trades distribution**



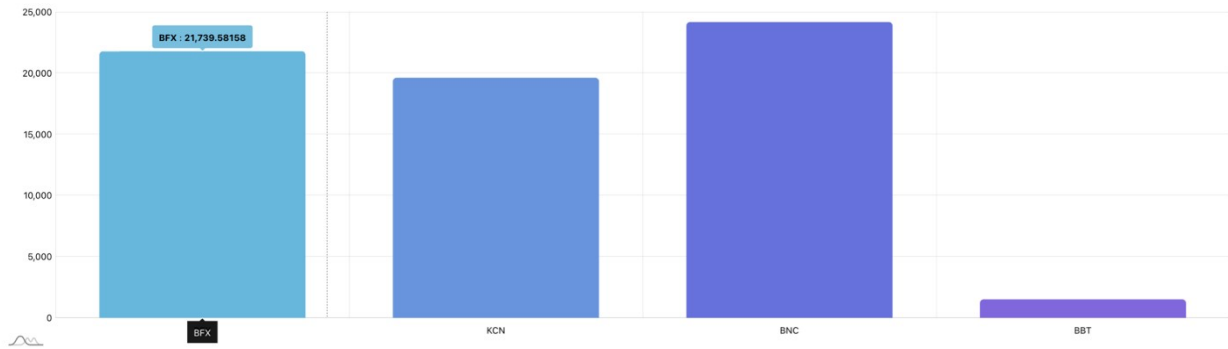
This graph illustrates the distribution of used assets for the specified month.

**Last month used assets distribution timeline**



This bar chart shows the turnover on each exchange.

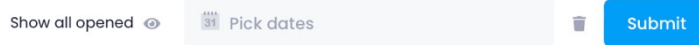
Exchange turnover distribution



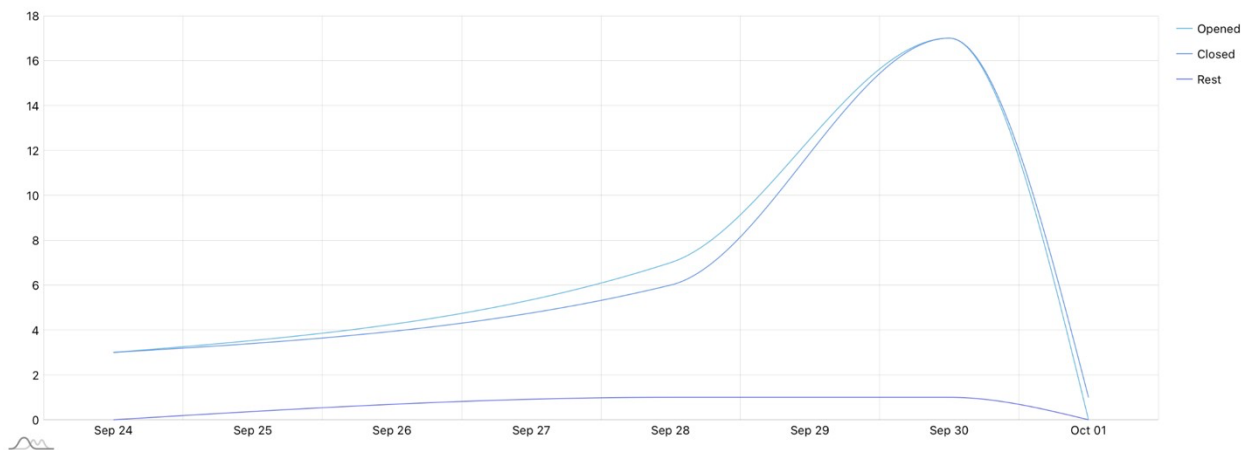
## Orders

The period can be specified using the "Pick dates" filter and by clicking the "Submit" button. This filter specifies period for line line chart and tables.

Moreover, it is possible to enable/disable the "Show all opened" filter. If this filter is disabled, no data will be displayed in the "Opened" table.



This line chart shows the number of opened, closed, and rest orders for each day during the selected period.



Below the chart, you can see tables with detailed data on open and closed orders. These tables include information such as generation time, chain and order IDs, exchange, pair, order status, and forecasted values.



### Opened

Created	Chain Id	Order Id	Market	Pair	Side	Forecast
2024-09-03 01:06:04	1725325564648-719	66d660fcbc88be0007f33d0c	kcn	ethbtc	sell	-
2024-08-13 17:53:24	1723571604374-7010	656318130	bnc	trxbtc	buy	-

### Closed

Created	Closed	Chain Id	Order Id	Market	Pair	Side	Forecast
2024-09-24 00:44:34	2024-09-24 00:44:34	1727138674162-8196	1015766328	bnc	adabtc	buy	base: 0.005925699602812529 pro: 1
2024-09-24 00:44:34	2024-09-24 00:59:54	1727138674162-8196	66f20b724c281b00073cbb05	kcn	btcsud	buy	base: 0.028216905891895294 pro: 2661
2024-09-24 00:44:34	2024-09-24 00:44:34	1727138674162-8196	66f20b728f6d4b000746alc0	kcn	adausd	sell	base: 0.0005520605482161045 pro: 1
2024-09-23 14:39:33	2024-09-23 14:39:32	1727102372734-7700	30671910205	bnc	btcsud	buy	base: 0.0010010291589424014 pro: 978
2024-09-23 14:39:33	2024-09-23 14:53:12	1727102372734-7700	66f17da5d083c4000768d89f	kcn	ethusd	sell	base: 0.00042858722736127675 pro: 1
2024-09-23 14:39:33	2024-09-23 14:39:33	1727102372734-7700	174270420654	bfk	ethbtc	buy	base: 0.02737412042915821 pro: 1
2024-09-23 13:48:28	2024-09-23 13:55:37	1727099305163-7328	4125116862	bnc	ethbtc	buy	base: 0.08632102608680725 pro: 1
2024-09-23 13:48:28	2024-09-23 13:48:28	1727099305163-7328	20275507374	bnc	ethusd	sell	base: 0.0014388785930350423 pro: 321
2024-09-23 13:48:28	2024-09-23 13:54:03	1727099305163-7328	66f17ac44ca4400076b4be1	kcn	btcsud	buy	base: 0.0005084045544713736 pro: 4
2024-09-23 08:20:27	2024-09-23 08:20:26	1727079626620-7139	174227719992	bfk	solusd	sell	base: 0.0012100074673071504 pro: 43

10 Showing 1 to 10 of 18 records

< 1 2 >

## API Keys

The "API Keys" section is where your keys are stored. Exchange and API keys are located here.

#### Api key

Key **upYYSQegTSxePAFOQxCYpoR91**

Secret **\*\*\*\*\***

To start making transactions, you need to enter the keys for the exchanges where you will make transactions.

### Bitfinex

Key \*

Secret \*

Discard

Save changes

If storing keys in your personal account is not preferable, you can enable "Local" mode, and the keys will be stored on the server.

**Keys storage**

---

Current keys storage: Base  
Local key storage

---

Discard Save changes

## Settings

In this section, you can adjust parameters yourself. The table below shows the default settings, which you can modify by clicking on the respective fields.

MODULE	SETTINGS	VALUE	COMMENT
ROOT	lock_timeout	<input type="text" value="180000"/>	Unlock timeout
ROOT	percent_balance	<input type="text" value="0.9"/>	The amount of the deal cannot exceed the VALUE of the balance
LITE	accept	<input type="text" value="true"/>	Accept Lite deals
LITE	percent_accept	<input type="text" value="0.2"/>	Accept chain if profit is more than VALUE%
LITE	force_trading	<input type="text" value="3"/>	Use market orders if profit is more than VALUE%
LITE	rate_diff	<input type="text" value="0.05"/>	Accept chain if orderbooks difference is not more than VALUE%
LITE	multiplier	<input type="text" value="2"/>	Multiply chain amount in VALUE times
FULL	accept	<input type="text" value="true"/>	Accept Full deals
FULL	percent_accept	<input type="text" value="0.1"/>	Accept chain if profit is more than VALUE%
FULL	force_trading	<input type="text" value="1.5"/>	Use market orders if profit is more than VALUE%
FULL	rate_diff	<input type="text" value="0.1"/>	Accept chain if orderbooks difference is not more than VALUE%
FULL	multiplier	<input type="text" value="4"/>	Multiply chain amount in VALUE times

Do not forget to click the "Update" button under the table to save your changes.

Save changes

At the top right of this page, there is a button. By clicking on “JSON,” you can view these parameters in JSON format.

JSON

## Statistics

This section displays the service's performance statistics. It contains four parts: trading statistics, workers status, quantum stacks, and a list of blocked pairs.

The "Statistics" block displays information about the service's current operational capabilities. “Markets” shows the number of exchanges connected to the service, while “Pairs” indicates the total number of pairs received from these exchanges. “Chains” represents the number of chains received. “Incoming flow” reflects the number of ticks per second coming from exchanges for processing. “Flow to Quantum Stacks” refers to the number of order books per second sent to GPU servers for calculations, whereas “Flow to Hetha” indicates the number of order books sent to the Hetha.io website. The next parameter represents the number of chains calculated on the GPU in the last second. The last parameter, generation time, denotes the average time required for generating chains.

### Statistics

Markets: **5**

Pairs: **1176**

Chains: **14827**

---

Incoming flow (ticks/s.): **13477**

Flow to Quantum Stacks (ticks/s.): **2136**

Flow to Hetha (ticks/s.): **1908**

Chains calculated per second: **24934**

Avg gen. time (s.) **2.25**

This table presents data on Workers servers. Workers are servers that receive ticks, generate order books, and send them to GPU servers for chain calculations and to Hetha for further transmission. The Worker column lists the server names. The Active column indicates whether a server is on or off. Incoming flow shows the number of ticks per second coming from exchanges for

processing. Flow to Bergelmir/Thrym/Kari 1 min displays the number of order books per minute sent to the GPU server for calculations. Flow to Hetha is the number of order books sent to the Hetha.io website.

**Workers**

Worker	Active	Flow to					<a href="#">More</a>
		Incoming flow 1 min.	Hetha 1 min.	Bergelmir 1 min.	Thrym 1 min.	Kari 1 min.	
Reginn	●	17670	55	902	130	371	<a href="#">More</a>
Bomburr	●	39561	66	1744	78	2430	<a href="#">More</a>
Brokk	●	30893	98	1210	251	938	<a href="#">More</a>
Durinn	●	28008	124	3741	169	401	<a href="#">More</a>
Gandalf	●	14755	54	1668	92	542	<a href="#">More</a>
Alfr	●	34142	54	1270	131	1322	<a href="#">More</a>
Total		418372	1192	23213	1913	15064	

[Show More](#)

If you click on the “More” button, you can see the number of ticks in and ticks out for the chosen server related to a specific market.

**Reginn**

Market	Incoming flow	Flow to				<a href="#">More</a>
		Hetha 1 min.	Bergelmir 1 min.	Thrym 1 min.	Kari 1 min.	
okx	7134	1589	0	0	0	<a href="#">More</a>
bbit	7920	397	0	0	0	<a href="#">More</a>
kcn	114388	9778	0	0	0	<a href="#">More</a>
bnc	1581	427	0	0	0	<a href="#">More</a>
bfx	3752	328	0	0	0	<a href="#">More</a>

[Close](#)

Here, you can also see the “More” button. If you click on it, you will access the most detailed table, which displays ticks in and ticks out for a chosen market and a specific currency pair. Reason for Tick Rejection lists the reasons why ticks were discarded and not included in order book processing:

- R1 – The incoming tick is identical to the previous one.
- R2 – The difference between ask and bid is too small.
- R3 – Order book integrity is violated.
- R4 – The price or volume of ask or bid is undefined or invalid.
- R5 – The previous and current order books are identical.

Pair	Incoming flow	Flow to				Reason for Tick Rejection				
		Hetho 1 min.	Bergelmir 1 min.	Thrym 1 min.	Kari 1 min.	R1	R2	R3	R4	R5
velodrome/usd	350	49	0	0	0	13	0	287	0	0
parti/usd	577	60	0	0	0	24	0	486	0	0
core/usd	557	95	0	0	0	45	0	412	0	0
axs/usd	366	79	0	0	0	20	0	266	0	0
cro/usd	455	101	0	0	0	7	0	340	0	0
comp/usd	434	59	0	0	0	8	0	357	0	0
hbar/usd	557	245	0	0	0	20	0	281	0	0
stx/usd	477	147	0	0	0	34	0	291	0	0
zro/usd	514	107	0	0	0	53	0	338	0	1
foxy/usd	248	50	0	0	0	8	0	190	0	0

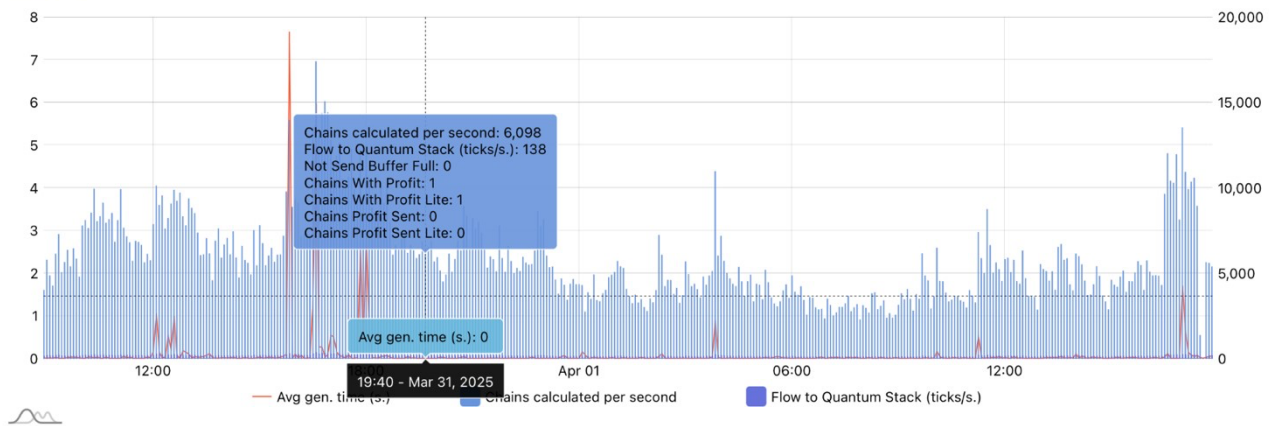
This table presents data on GPU servers. Quantum Stacks are GPU servers that calculate chains. The table provides data for different time periods: 1 minute, 10 minutes, and 60 minutes. Average generation time is the average time in seconds required to generate chains over a specific period. Chains amount shows the number of profitable chains generated and sent. Incoming flow displays the number of incoming ticks to the GPU server.

	1 min		10 min		60 min		1 min
	Avg gen. time (s.)	Chains amount	Avg gen. time (s.)	Chains amount	Avg gen. time (s.)	Chains amount	Incoming flow
Bergelmir	0.00	0	0.16	106	0.72	207	45834
Thrym	0.00	0	0.10	13	0.40	394	24228
Kari	0.00	0	0.06	4	0.23	58	26760
Total	0.00	0	0.11	123	0.45	659	96822

This graph presents data on GPU servers. Average generation time is the average time in seconds required to generate chains. Chains calculated per second shows the number of chains processed by the GPU. Flow to Quantum Stacks displays the number of order books per second sent to the GPU server for calculations. The graph has a 5-minute step; however, the values are divided accordingly to represent data per second.

## Quantum Stacks Graphs

### Bergelmir



### Additional Information:

- Chains calculated per second – The number of chains processed by the GPU.
- Flow to Quantum Stack (ticks/s.) – The number of order books per second sent to GPU servers for calculations.
- Not Sent Buffer Full – Chains were not sent because the buffer was full.
- Chains With Profit – Full profitable chains.
- Chains With Profit Lite – Lite profitable chains.
- Chains Profit Sent – Full profitable chains sent to Hetha.io.
- Chains Profit Sent Lite – Lite profitable chains sent to Hetha.io.

The last block, Blacklist currencies, displays the currencies that have been blacklisted by the service for various reasons. Chains involving these currencies are blocked.

#### Black list currencies

BTC3L AMP ACE NEIRO BIFI ALT HTX AI ZKX ZRX FET ENJ NMR MTL XNO CELR ZETA TST LAYER

## Downloads

The “Downloads” section includes a brief description of the program, as well as some commands presented as code snippets.

### Get started

To execute the program, you must insert code:

```
const API = require('../libs/api.js');
api = new API( error );
```

Statistical data of the chain analyzer are available in a visual format in the user's personal account and can also be viewed by this request:

```
let command = 'report/chains';
let params = {"chain": "xrp", "dateFrom": "2020-08-15", "dateTo": "2020-09-24", "reverse": true, "profit": "100.2", "lite": "0"};
api.request( command, params, function ( response ) {
    console.log(response);
});
```

Using this command, you can save chains by yourself and display them in your personal account.

```
var params = [feed.lite, orderId, feed.history, feed.deep, feed.profit, feed.chain];
api.request('saving/chain', params, function ( response ) {});
```

The file [feed.example.js](#) contains an example of a request to the FEED server

To execute the example, you must set the following current parameters:

```
const apiKey = 'your-api-key';
const apiSecret = 'your-api-secret';
```