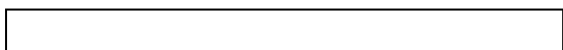
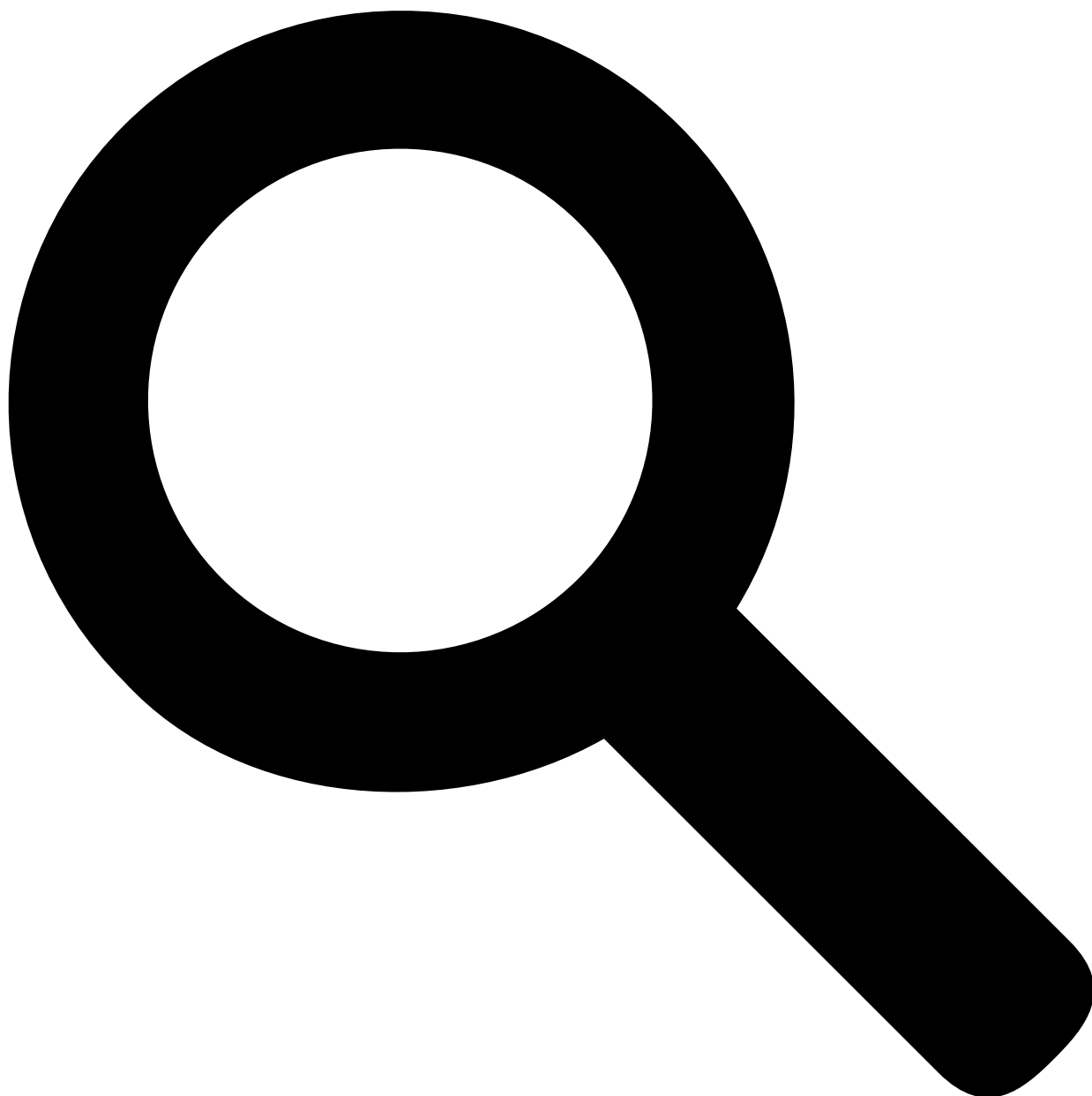
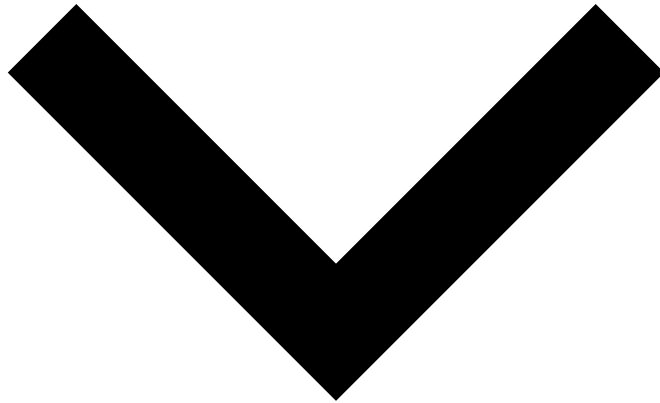


Kraken Logo

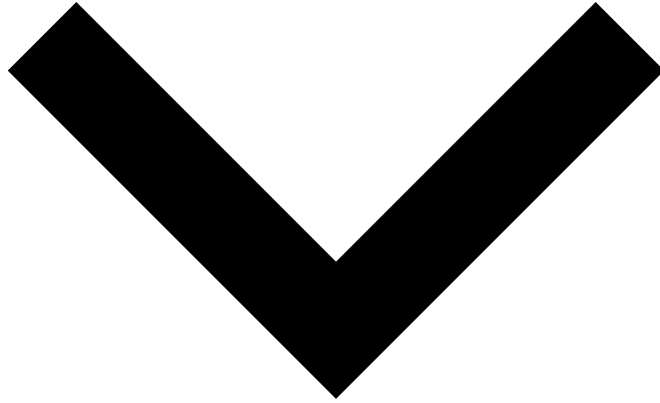


- General Usage



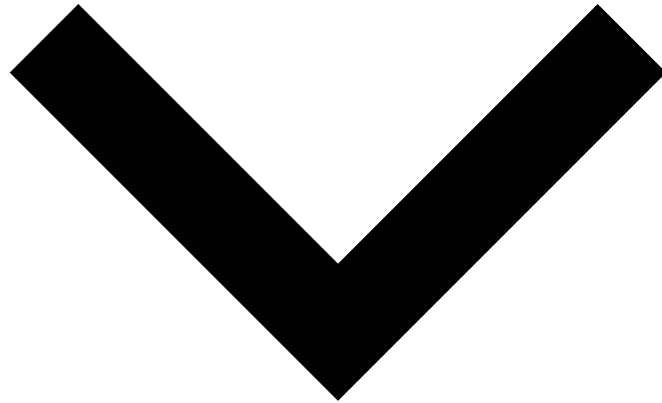
- Support
- Requests, Responses and Errors

- Authentication



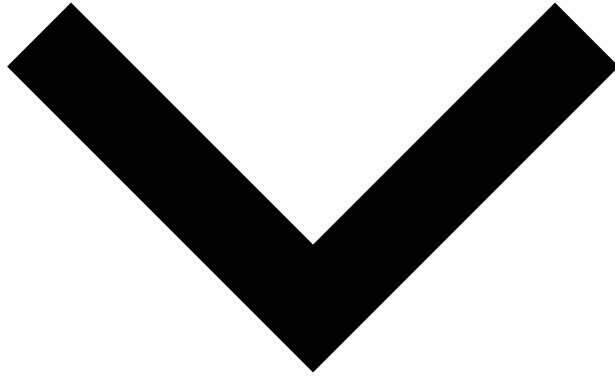
- Nonce and 2FA
- Headers and Signature

- Rate Limits



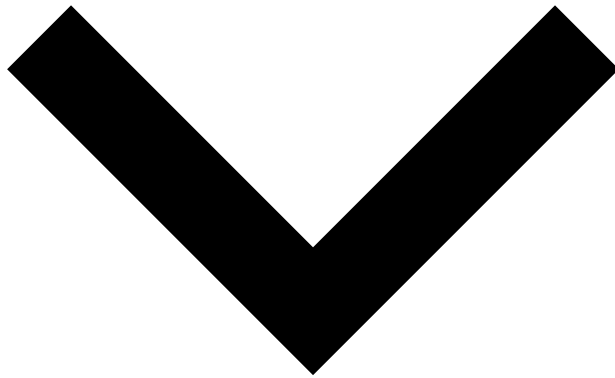
- REST API Rate Limits
  - Matching Engine Rate Limits
- Changelog
- Example API Clients

- Public Endpoints
  - Spot Market Data



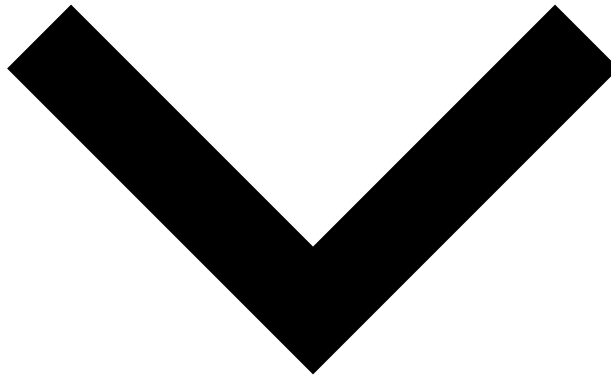
- getGet Server Time
- getGet System Status
- getGet Asset Info
- getGet Tradable Asset Pairs
- getGet Ticker Information
- getGet OHLC Data
- getGet Order Book
- getGet Recent Trades
- getGet Recent Spreads

- NFT Market Data



- getGet NFT
- getList NFTs
- getgetNftProvenance
- getgetCollection
- getListCollections
- getgetCreator
- getListCreators
- getListBlockchains
- getgetAuctions
- getgetOffers
- getgetNftQuotes

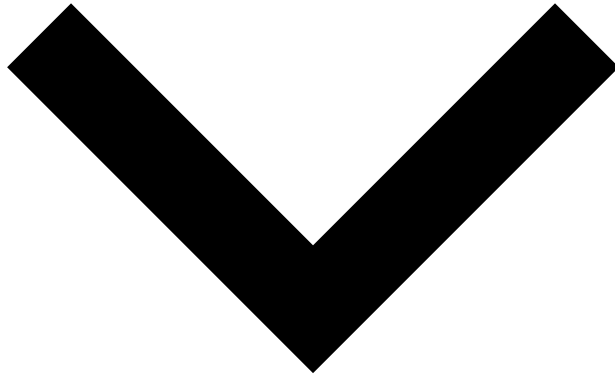
- Authenticated Endpoints
  - Account Data



- postGet Account Balance
- postGet Extended Balance
- postGet Trade Balance
- postGet Open Orders
- postGet Closed Orders
- postQuery Orders Info
- postGet Trades History
- postQuery Trades Info
- postGet Open Positions
- postGet Ledgers Info
- postQuery Ledgers
- postGet Trade Volume
- postRequest Export Report
- postGet Export Report Status
- postRetrieve Data Export
- postDelete Export Report

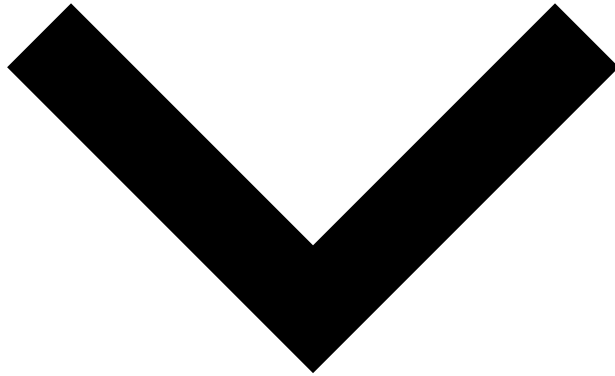


- Spot Trading



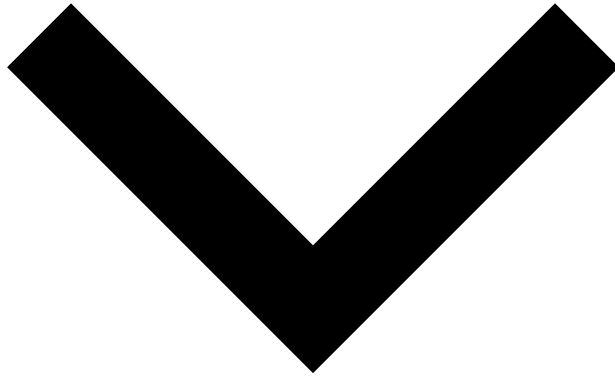
- postAdd Order
- postAdd Order Batch
- postEdit Order
- postCancel Order
- postCancel All Orders
- postCancel All Orders After X
- postCancel Order Batch

- NFT Trading



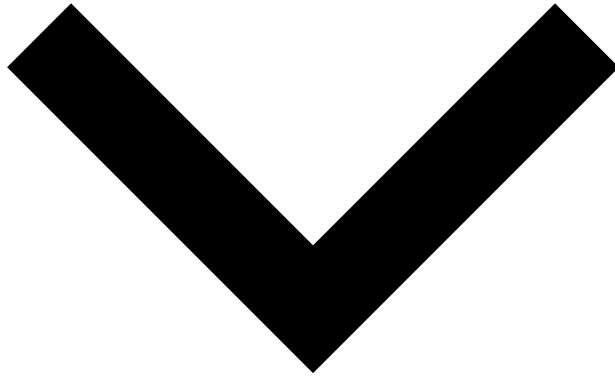
- postcreateAuction
- postmodifyAuction
- postcancelAuction
- postplaceOffer
- postcancelOffer
- postcounterNftOffer
- postacceptNftOffer
- postgetAuctionTrades
- postgetUserOffers
- postgetNftWallet
- postlistNftTransactions

- Funding



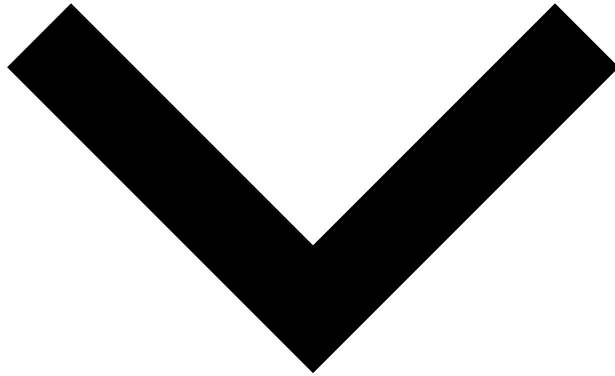
- postGet Deposit Methods
- postGet Deposit Addresses
- postGet Status of Recent Deposits
- postGet Withdrawal Methods
- postGet Withdrawal Addresses
- postGet Withdrawal Information
- postWithdraw Funds
- postGet Status of Recent Withdrawals
- postRequest Withdrawal Cancelation
- postRequest Wallet Transfer

- Subaccounts



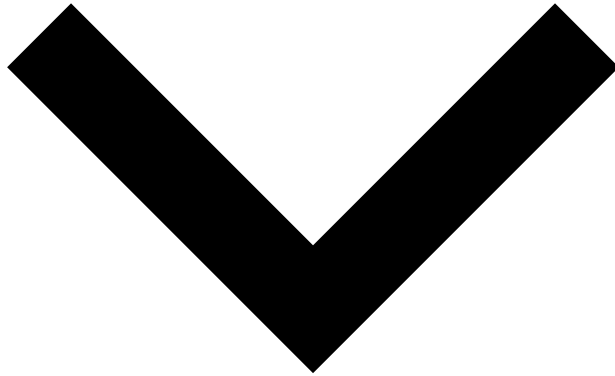
- postCreate Subaccount
- postAccount Transfer

- Earn



- postAllocate Earn Funds
- postDeallocate Earn Funds
- postGet Allocation Status
- postGet Deallocation Status
- postList Earn Strategies
- postList Earn Allocations

- Websockets Authentication



- postGet Websockets Token

[API docs by Redocly](#)



## REST API (1.1.0)

Download OpenAPI specification:Download

## General Usage

This document details use of Kraken's REST API for our Spot exchange. The Spot exchange [Websockets API](#) and the [Kraken Futures APIs](#) are documented separately. Our REST API is organised into publicly accessible endpoints (market data, exchange status, etc.), and private authenticated endpoints (trading, funding, user data) which require requests to be signed.

Your use of the Kraken REST API is subject to the [Kraken Terms & Conditions](#), [Privacy Notice](#), as well as all other applicable terms and disclosures made available on [www.kraken.com](http://www.kraken.com).

You must seek our prior permission for any non personal commercial use of the Kraken REST API, this includes, but is not limited to, any non personal commercial use of market data, exchange status, etc. available via the publicly available endpoints. You may seek such permission by contacting [marketdata@kraken.com](mailto:marketdata@kraken.com).

## Support

Further information and FAQs may be found on the [API section](#) of our support pages. If you have trouble making any standard requests that our system permits, please [send us a ticket](#) with a full copy of the request(s) that you're attempting, including your IP address and all headers, so that we may investigate further.

## Requests, Responses and Errors

### Requests

Request payloads are [form-encoded](#) (Content-Type: application/x-www-form-urlencoded), and all requests must specify a User-Agent in their headers.

### Responses

Responses are JSON encoded and contain one or two top-level keys (result and error for successful requests or those with warnings, or only error for failed or rejected requests)

#### Example Successful Response

```
{
  "error": [],
  "result": {
    "status": "online",
    "timestamp": "2021-03-22T17:18:03Z"
  }
}
```

GET <https://api.kraken.com/0/public/SystemStatus>

#### Example Rejection

```
{
  "error": [
    "EGeneral:Invalid arguments:ordertype"
  ]
}
```

```
]
}
```

## Error Details

HTTP status codes are generally not used by our API to convey information about the state of requests -- any errors or warnings are denoted in the error field of the response as described above. Status codes **other** than 200 indicate that there was an issue with the request reaching our servers.

error messages follow the general format <severity><category>:<error msg>[:add'\ text]

- severity can be either E for error or W for warning
- category can be one of General, Auth, API, Query, Order, Trade, Funding, or Service
- error msg can be any text string that describes the reason for the error

## Some Common Examples

### Error

### Additional Info

EGeneral:Invalid arguments

The request payload is malformed, incorrect or ambiguous

EGeneral:Invalid arguments:Index unavailable

Index pricing is unavailable for stop/profit orders on this pair

EGeneral:Temporary lockout

Too many sequential EAPI:Invalid key errors

EService:Unavailable

The matching engine or API is offline

EService:Market in cancel\_only mode

Request can't be made at this time (See SystemStatus endpoint)

EService:Market in post\_only mode

Request can't be made at this time (See SystemStatus endpoint)

EService:Deadline elapsed

The request timed out according to the default or specified deadline

EAPI:Invalid key

An invalid API-Key header was supplied (see Authentication section)

EAPI:Invalid signature

An invalid API-Sign header was supplied (see Authentication section)

EAPI:Invalid nonce

An invalid nonce was supplied (see Authentication section)

EGeneral:Permission denied

API key doesn't have permission to make this request

EOrder:Cannot open position

User/tier is ineligible for margin trading

EOrder:Margin allowance exceeded

User has exceeded their margin allowance

EOrder:Margin level too low

Client has insufficient equity or collateral

EOrder:Margin position size exceeded

Client would exceed the maximum position size for this pair

EOrder:Insufficient margin



Error	Additional Info
	Exchange does not have available funds for this margin trade
EOrder:Insufficient funds	Client does not have the necessary funds
EOrder:Order minimum not met	Order size does not meet ordermin (See AssetPairs endpoint)
EOrder:Cost minimum not met	Cost (price * volume) does not meet costmin (See AssetPairs endpoint)
EOrder:Tick size check failed	Price submitted is not a valid multiple of the pair's tick_size (See AssetPairs endpoint)
EOrder:Orders limit exceeded	(See Rate Limits section)
EOrder:Rate limit exceeded	(See Rate Limits section)
EOrder:Domain rate limit exceeded	(See Rate Limits section)
EOrder:Positions limit exceeded	
EOrder:Unknown position	
EBM:limit exceeded:CAL	Exceeded <a href="#">Canadian Acquisition Limits (CAL)</a>
EFunding:Max fee exceeded	Processed fee exceeds max_fee set in Withdraw request

Additional information can be found on our [support center](#).

## Authentication

Authenticated requests must include both API-Key and API-Sign HTTP headers, and nonce in the request payload. otp is also required in the payload if two-factor authentication (2FA) is enabled.

## Nonce and 2FA

### nonce

Nonce must be an always increasing, unsigned 64-bit integer, for each request that is made with a particular API key. While a simple counter would provide a valid nonce, a more usual method of generating a valid nonce is to use e.g. a UNIX timestamp in milliseconds.

**Note:** There is no way to reset the nonce for an API key to a lower value, so be sure to use a nonce generation method that won't produce numbers less than the previous nonce. Too many requests with invalid nonces (EAPI:Invalid nonce) can result in temporary bans. Problems can arise from requests arriving out of order due to API keys being shared across processes, or from system clock drift/recalibration. An optional "nonce window" can be configured to specify a tolerance between nonce values. Additional info can be found in our [support pages](#).

## otp

If two-factor authentication (2FA) is enabled for the API key and action in question, the one time password must be specified in the payload's otp value.

## Headers and Signature

All responses will include the x-trace-id header. This uniquely identifies your request. When contacting support, please include a trace-id where possible.

## API-Key

The "API-Key" header should contain your API key.

**Security Scheme Type:** API Key  
**Header parameter name:** API-Key

## API-Sign

Authenticated requests should be signed with the "API-Sign" header, using a signature generated with your private key, nonce, encoded payload, and URI path according to:

HMAC-SHA512 of (URI path + SHA256(nonce + POST data)) and base64 decoded s

## Example Signature

The following is a specific example of a signature generated with a particular private key, nonce, and payload corresponding to a new limit order (buy 1.25 XBTUSD at \$37,500). If your code is generating a different signature ("API-Sign") for this example, then there is likely an issue with your application of the above methodology. Code snippets for generating the signature in Python, Golang and Node.js follow below.

Field	Value
Private Key	kQH5HW/ 8p1uGOVjbgWA7FunAmGO8lsSUXNsu3eow76sz84Q18fWxnyRzBHCd3pd5nE
Nonce	1616492376594
Encoded Payload	nonce=1616492376594&ordertype=limit&pair=XBTUSD&price=37500&type
URI Path	/0/private/AddOrder
API-Sign	4/dpxb3iT4tp/ ZCWEwSnEsLxx0bqyhLpdfOpc6fn7OR8+UClSV5n9E6aSS8MPtnRfp32b

## Code Examples

### Python

```
import urllib.parse
import hashlib
import hmac
import base64

def get_kraken_signature(urlpath, data, secret):

    postdata = urllib.parse.urlencode(data)
    encoded = (str(data['nonce']) + postdata).encode()
    message = urlpath.encode() + hashlib.sha256(encoded).digest()

    mac = hmac.new(base64.b64decode(secret), message, hashlib.sha512)
    sigdigest = base64.b64encode(mac.digest())
    return sigdigest.decode()

api_sec = "kQH5HW/8p1uGOVjbgWA7FunAmG08lsSUXNsu3eow76sz84Q18fWxnyRzBHCd3pd"

data = {
    "nonce": "1616492376594",
    "ordertype": "limit",
    "pair": "XBTUSD",
    "price": 37500,
    "type": "buy",
    "volume": 1.25
}

signature = get_kraken_signature("/0/private/AddOrder", data, api_sec)
print("API-Sign: {}".format(signature))
```

### Golang [link](#)

```
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "crypto/sha512"
    "encoding/base64"
    "net/url"
    "fmt"
)

func getKrakenSignature(url_path string, values url.Values, secret []byte)

    sha := sha256.New()
    sha.Write([]byte(values.Get("nonce") + values.Encode()))
    shasum := sha.Sum(nil)
```

```

    mac := hmac.New(sha512.New, secret)
    mac.Write(append([]byte(url_path), shasum...))
    macsum := mac.Sum(nil)
    return base64.StdEncoding.EncodeToString(macsum)
}

func main() {

    apiSecret := "kQH5HW/8p1uGOVjbgWA7FunAmG08lsSUXNsu3eow76sz84Q18fWxnyRzBH

    payload := url.Values{}
    payload.Add("pair", "XBTUSD")
    payload.Add("type", "buy")
    payload.Add("ordertype", "limit")
    payload.Add("price", "37500")
    payload.Add("volume", "1.25")
    payload.Add("nonce", "1616492376594")

    b64DecodedSecret, _ := base64.StdEncoding.DecodeString(apiSecret)

    signature := getKrakenSignature("/0/private/AddOrder", payload, b64DecodedSecret)
    fmt.Printf("API-Sign: " + signature + "\n")
}

```

## Node JS

```

const crypto = require('crypto');
const qs      = require('qs');

const getMessageSignature = (path, request, secret, nonce) => {
    const message      = qs.stringify(request);
    const secret_buffer = new Buffer(secret, 'base64');
    const hash          = new crypto.createHash('sha256');
    const hmac          = new crypto.createHmac('sha512', secret_buffer);
    const hash_digest   = hash.update(nonce + message).digest('binary');
    const hmac_digest   = hmac.update(path + hash_digest, 'binary').digest('binary');

    return hmac_digest;
};

```

**Security Scheme Type:** API Key  
**Header parameter name:** API-Sign

## Rate Limits

We have various safeguards in place to protect against system abuse, order book manipulation, DDoS attacks, etc. For REST API requests, these are broadly organised into rate limits specific to the REST API, and rate limits which apply to any trading requests.

**Note:** For clients with performance sensitive applications, we strongly recommend the use of our Websockets API for minimising request latency and receiving real-time information, reducing or eliminating the need to frequently poll REST endpoints.

## REST API Rate Limits

### Limits

Every REST API user has a "call counter" which starts at 0. Ledger/trade history calls increase the counter by 2. All other API calls increase this counter by 1 (except AddOrder, CancelOrder which operate on a different limiter detailed further below).

Tier	Max API Counter	API Counter Decay
Starter	15	-0.33/sec
Intermediate	20	-0.5/sec
Pro	20	-1/sec

The user's counter is reduced every couple of seconds depending on their verification tier. Each API key's counter is separate, and if the counter exceeds the maximum value, subsequent calls using that API key would be rate limited. If the rate limits are reached, additional calls will be restricted for a few seconds (or possibly longer if calls continue to be made while the rate limits are active).

**Note:** Master accounts and subaccounts will share the same default trading rate limits as determined by the master account's tier.

### Errors

- "EAPI:Rate limit exceeded" if the REST API counter exceeds the user's maximum.
- "EService: Throttled: [UNIX timestamp]" if there are too many concurrent requests. Try again after [timestamp].

Additional information can be found on our [support center](#).

## Matching Engine Rate Limits

### Limits

Separate limits apply to the number of orders clients may have open in each pair at a time, and the speed with which they may add and cancel orders in each pair. These limits vary by the account verification tier:

Tier	Max Num Orders	Max Ratecount	Ratecount Decay
Starter	60	60	-1/sec

Tier	Max Num Orders	Max Ratecount	Ratecount Decay
Intermediate	80	125	-2.34/sec
Pro	225	180	-3.75/sec

## Penalties

The speed is controlled by a ratecounter for each (client, pair) which starts at zero, is incremented when penalties are applied, and decremented according to the decay rates above. A penalty is added to the ratecounter for each new order placed (AddOrder) or cancelled (CancelOrder, CancelAll, CancelAllOrdersAfter) on the pair. The cancellation penalty varies according to the lifetime of the order.

Action	<5sec	<10sec	<15sec	<45sec	<90sec	<300s	>300s
Add Order	+1						
AddOrderBatch***	+						
	(n/2)						
Edit Order	+6	+5	+4	+2	+1	0	0
Cancel Order	+8	+6	+5	+4	+2	+1	0
CancelOrderBatch**	+8	+6	+5	+4	+2	+1	0

\*\*\* n is number of orders in batch

\*\* Rate limits penalty for CancelOrderBatch will be cumulative sum of individual orders penalty, accumulated upto max ratecount. In case, the cumulative penalty in the batch exceeds max ratecount, cancel requests in batch are still accepted.

**Note:** A client's exact ratecounter values can be monitored via the Websockets [openOrders](#) feed.

## Errors

- "EOrder:Orders limit exceeded" if the number of open orders in a given pair is exceeded
- "EOrder:Rate limit exceeded" if the user's max ratecount is exceeded for a given pair

Additional information can be found on our [support center](#).

## Changelog

- Mar 2024 - Removed Staking section, deprecated and no longer supported.
- Feb 2024 - Added maker and ledgers fields to TradesHistory and QueryTrades. Added NFT Market Data and Trading documentation.
- Jan 2024 - Removed support for POST requests to all public endpoints; these requests will now return a 4xx error, please use a GET request

- instead. Added notes to Balance and Ledger endpoints on migration from Staking to Earn and asset suffixes.
- Dec 2023 - Added support for trailing-stop and trailing-stop-limit order types.
  - Nov 2023 - Added WithdrawMethods and WithdrawAddresses endpoints, and start, end, cursor, and limit parameters to WithdrawStatus.
  - Oct 2023 - Added max\_fee parameter to Withdraw and minimum field in response for DepositMethods.
  - Sep 2023 - Added start, end, cursor, and limit parameters to DepositStatus.
  - Aug 2023 - Added Earn service documentation.
  - July 2023 - Added private BalanceEx documentation.
  - June 2023 - Added amount parameter to DepositAddresses, required for Bitcoin Lightning deposits. Added count parameter to Trades.
  - May 2023 - Added address parameter to Withdraw. Added since parameter to Spread.
  - Mar 2023 - Added originators parameter to DepositStatus.
  - Feb 2023 - Added long and short margin position limits to AssetPairs.
  - Feb 2023 - Specified minimum and maximum number of txids and userrefs for CancelOrderBatch.
  - Feb 2023 - Specified maximum number of responses for DepositStatus and WithdrawStatus.
  - Feb 2023 - Noted to use %2b instead of + for URL encoding in AddOrder starttm and expiretm parameters.
  - Jan 2023 - Removed requirement for asset in DepositStatus and WithdrawalStatus.
  - Jan 2023 - Documented reduce\_only parameter in AddOrder and AddOrderBatch.
  - Jan 2023 - Added consolidate\_taker to TradesHistory, ClosedOrders, and QueryOrders.
  - Jan 2023 - Added Subaccounts section with CreateSubaccount and AccountTransfer endpoints.
  - Jan 2023 - Added trade\_id to private TradesHistory.
  - Dec 2022 - Fixed pair parameter restriction on TradeVolume.
  - Dec 2022 - EditOrder allowed on margin orders.
  - Nov 2022 - Added tick\_size and status parameters to AssetPairs, status and collateral\_value to Assets, and trade\_id to public Trades.
  - Oct 2022 - Documented uv (unexecuted value) field in TradeBalance.
  - Oct 2022 - Added costmin trading parameter to AssetPairs.
  - Oct 2022 - Ticker wildcard support - pair no longer required, no pair parameter returns tickers for all tradeable exchange assets.
  - Sep 2022 - AddOrder/EditOrder/AddOrderBatch now support icebergs.
  - July 2022 - Added support for restricting API keys to specified IP address(es)/range.
  - June 2022 - Added custom self trade prevention options.
  - May 2022 - Added new REST AddOrderBatch endpoint to send multiple new orders and CancelOrderBatch endpoint to cancel multiple open orders.
  - Mar 2022 - Added new REST EditOrder endpoint to edit volume and price on open orders.

- Dec 2021 - Added REST AddOrder support for optional parameter trigger and values last (last traded price) and index.

**Note:** Most changes affecting our APIs or trading engine behaviour are currently being tracked on our [Websockets](#) changelog, until these documents are combined.

## Example API Clients

In order to achieve maximum performance, security and flexibility for your particular needs, we strongly encourage the implementation of this API with your own code, and to minimise reliance on third party software.

That being said, in order to aid with rapid development and prototyping, we're in the process of producing 'official' API clients in Python and Golang that will be actively maintained, coincident with the release of newer versions of both our Websockets and REST APIs. In the meantime, our Client Engagement team has compiled a number of [code snippets, examples and Postman collections](#) that many find useful.

### Third Party Software

Below are other third party API client code libraries that may be used when writing your own API client. Please keep in mind that Payward nor the third party authors are responsible for losses due to bugs or improper use of the APIs. Payward has performed an initial review of the safety of the third party code before listing them but cannot vouch for any changes added since then, or for those that may be stale. If you have concerns, please contact support.

#### Language Link

C++      <https://github.com/voidloop/krakenapi>  
Golang   <https://github.com/Beldur/kraken-go-api-client>  
Python 3   <https://github.com/veox/python3-krakenex>

Other

## Spot Market Data

Note: As of 31st Jan 2024, the undocumented use of POST requests to /0/public/\* endpoints will be deprecated to improve the performance of our systems and experience for consumers of the API. The endpoints will now return a 4xx error when accessed with a POST request instead of a GET.

### Get Server Time

Get the server's time.



Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

Responses



200

Success response

Response Schema: application/json

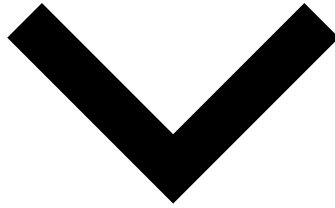


object (ServerTime)

result

error

Array of  
strings (error)



get/public/Time

Production Server

https://api.kraken.com/0/public/Time

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Time"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

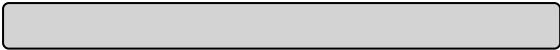
```
{  
  • "error": [ ],  
  • "result": {  
    ◦ "unixtime": 1688669448,  
    ◦ "rfc1123": "Thu, 06 Jul 23 18:50:48 +0000"  
  }  
}
```

# Get System Status

Get the current system status or trading mode.

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

## Responses



200

Success response

### Response Schema: application/json

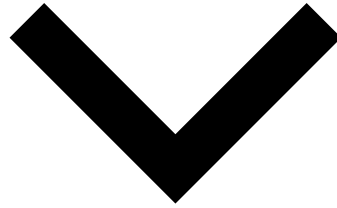


object

result

error

Array of  
strings (error)



get/public/SystemStatus

Production Server

https://api.kraken.com/0/public/SystemStatus

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/SystemStatus"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "status": "online",
  - "timestamp": "2023-07-06T18:52:00Z"}

}

# Get Asset Info

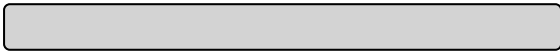
Get information about the assets that are available for deposit, withdrawal, trading and earn.

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

## query Parameters

	string Example: asset=XBT,ETH
asset	Comma delimited list of assets to get info on (optional, default all available assets)
	string Example: aclass=currency
aclass	Asset class (optional, default: currency)

## Responses

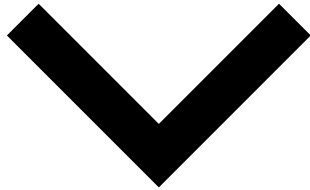


**200**

Asset info retrieved.

**Response Schema: application/json**

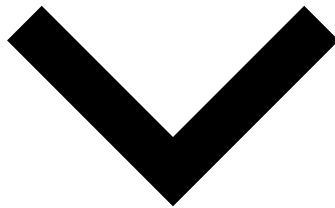
object



result

error

Array of  
strings (error)



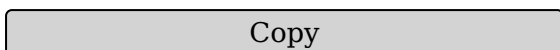
get/public/Assets

Production Server

<https://api.kraken.com/0/public/Assets>

## Request samples

- cURL
- Python



```
curl "https://api.kraken.com/0/public/Assets"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
{	

```
• "error": [ ],
• "result": {
  ◦ "XXBT": {
    ■ "aclass": "currency",
    ■ "altname": "XBT",
    ■ "decimals": 10,
    ■ "display_decimals": 5,
    ■ "collateral_value": 1,
    ■ "status": "enabled"
  },
  ◦ "ZEUR": {
    ■ "aclass": "currency",
    ■ "altname": "EUR",
    ■ "decimals": 4,
    ■ "display_decimals": 2,
    ■ "collateral_value": 1,
    ■ "status": "enabled"
  },
  ◦ "ZUSD": {
    ■ "aclass": "currency",
    ■ "altname": "USD",
    ■ "decimals": 4,
    ■ "display_decimals": 2,
    ■ "collateral_value": 1,
    ■ "status": "enabled"
  }
}
```

## Get Tradable Asset Pairs

Get tradable asset pairs.

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

### query Parameters

string  
pair Example: pair=BTC/USD,ETH/BTC

Asset pairs to get data for

string

Default: "info"

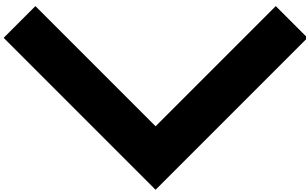
Enum: "info" "leverage" "fees" "margin"

Info to retrieve (optional)

info

- info = all info
- leverage = leverage info
- fees = fees schedule
- margin = margin info

## Responses



**200**

Tradable asset pairs retrieved.

**Response Schema: application/json**

object

Pair names and their info

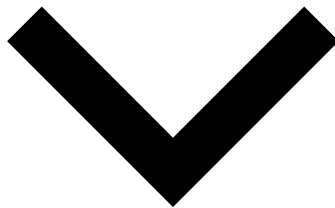




result

error

Array of strings (error)



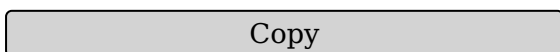
get/public/AssetPairs

Production Server

<https://api.kraken.com/0/public/AssetPairs>

## Request samples

- cURL
- Python



```
curl "https://api.kraken.com/0/public/AssetPairs?pair=XXBTZUSD,XETHXXBT"
```

## Response samples

- 200

Content type

application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "XETHXXBT": {
    - "altname": "ETHXBT",
    - "wsname": "ETH/XBT",
    - "aclass\_base": "currency",
    - "base": "XETH",
    - "aclass\_quote": "currency",
    - "quote": "XXBT",
    - "lot": "unit",
    - "cost\_decimals": 6,
    - "pair\_decimals": 5,
    - "lot\_decimals": 8,
    - "lot\_multiplier": 1,
    - "leverage\_buy": [
      - 2,
      - 3,
      - 4,
      - 5],
    - "leverage\_sell": [
      - 2,
      - 3,
      - 4,
      - 5],
    - "fees": [
      - [
        - 0,
        - 0.26],
      - [
        - 50000,
        - 0.24],
      - [
        - 100000,
        - 0.22],
      - [
        - 250000,
        - 0.2]

```

    ],
    ■ [
        ■ 500000,
        ■ 0.18
    ],
    ■ [
        ■ 1000000,
        ■ 0.16
    ],
    ■ [
        ■ 2500000,
        ■ 0.14
    ],
    ■ [
        ■ 5000000,
        ■ 0.12
    ],
    ■ [
        ■ 10000000,
        ■ 0.1
    ],
    ],
    ■ "fees maker": [
        ■ [
            ■ 0,
            ■ 0.16
        ],
        ■ [
            ■ 50000,
            ■ 0.14
        ],
        ■ [
            ■ 100000,
            ■ 0.12
        ],
        ■ [
            ■ 250000,
            ■ 0.1
        ],
        ■ [
            ■ 500000,
            ■ 0.08
        ],
        ■ [
            ■ 1000000,
            ■ 0.06
        ]
    ]

```

```

        ],
        ■ [
            ■ 2500000,
            ■ 0.04
        ],
        ■ [
            ■ 5000000,
            ■ 0.02
        ],
        ■ [
            ■ 10000000,
            ■ 0
        ]
    ],
    ■ "fee_volume_currency": "ZUSD",
    ■ "margin_call": 80,
    ■ "margin_stop": 40,
    ■ "ordermin": "0.01",
    ■ "costmin": "0.00002",
    ■ "tick_size": "0.00001",
    ■ "status": "online",
    ■ "long_position_limit": 1100,
    ■ "short_position_limit": 400
},
○ "XXBTZUSD": {
    ■ "altname": "XBTUSD",
    ■ "wsname": "XBT/USD",
    ■ "aclass_base": "currency",
    ■ "base": "XXBT",
    ■ "aclass_quote": "currency",
    ■ "quote": "ZUSD",
    ■ "lot": "unit",
    ■ "cost_decimals": 5,
    ■ "pair_decimals": 1,
    ■ "lot_decimals": 8,
    ■ "lot_multiplier": 1,
    ■ "leverage_buy": [
        ■ 2,
        ■ 3,
        ■ 4,
        ■ 5
    ],
    ■ "leverage_sell": [
        ■ 2,
        ■ 3,
        ■ 4,
        ■ 5
    ],
    ],

```

```

    "fees": [
      [
        0,
        0.26
      ],
      [
        50000,
        0.24
      ],
      [
        100000,
        0.22
      ],
      [
        250000,
        0.2
      ],
      [
        500000,
        0.18
      ],
      [
        1000000,
        0.16
      ],
      [
        2500000,
        0.14
      ],
      [
        5000000,
        0.12
      ],
      [
        10000000,
        0.1
      ]
    ],
    "fees maker": [
      [
        0,
        0.16
      ],
      [
        50000,

```

```

        ■ 0.14
      ],
      ■ [
        ■ 100000,
        ■ 0.12
      ],
      ■ [
        ■ 250000,
        ■ 0.1
      ],
      ■ [
        ■ 500000,
        ■ 0.08
      ],
      ■ [
        ■ 1000000,
        ■ 0.06
      ],
      ■ [
        ■ 2500000,
        ■ 0.04
      ],
      ■ [
        ■ 5000000,
        ■ 0.02
      ],
      ■ [
        ■ 10000000,
        ■ 0
      ]
    ],
    ■ "fee_volume_currency": "ZUSD",
    ■ "margin_call": 80,
    ■ "margin_stop": 40,
    ■ "ordermin": "0.0001",
    ■ "costmin": "0.5",
    ■ "tick_size": "0.1",
    ■ "status": "online",
    ■ "long_position_limit": 250,
    ■ "short_position_limit": 200
  }
}

```

# Get Ticker Information

Get ticker information for all or requested markets. To clarify usage, note that:

- Today's prices start at midnight UTC
- Leaving the pair parameter blank will return tickers for all tradeable assets on Kraken

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

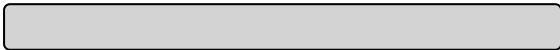
## query Parameters

string

Example: pair=XBTUSD

pair Asset pair to get data for (optional, default: all tradeable exchange pairs)

## Responses

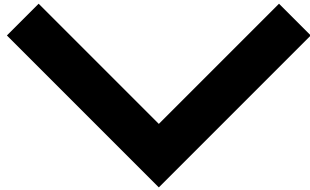


**200**

Ticker info retrieved.

**Response Schema: application/json**

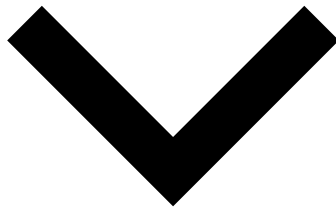
object



result

error

Array of  
strings (error)



get/public/Ticker

Production Server

<https://api.kraken.com/0/public/Ticker>

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Ticker?pair=XBTUSD"
```

## Response samples

- 200



Content type  
application/json

Copy	Expand all
Collapse all	
{	

```
• "error": [ ],
• "result": {
  ◦ "XXBTZUSD": {
    ▪ "a": [
      ▪ "30300.10000",
      ▪ "1",
      ▪ "1.000"
    ],
    ▪ "b": [
      ▪ "30300.00000",
      ▪ "1",
      ▪ "1.000"
    ],
    ▪ "c": [
      ▪ "30303.20000",
      ▪ "0.00067643"
    ],
    ▪ "v": [
      ▪ "4083.67001100",
      ▪ "4412.73601799"
    ],
    ▪ "p": [
      ▪ "30706.77771",
      ▪ "30689.13205"
    ],
    ▪ "t": [
      ▪ 34619,
      ▪ 38907
    ],
    ▪ "l": [
      ▪ "29868.30000",
      ▪ "29868.30000"
    ],
    ▪ "h": [
      ▪ "31631.00000",
      ▪ "31631.00000"
    ],
    ▪ "o": "30502.80000"
  }
}
```

}

## Get OHLC Data

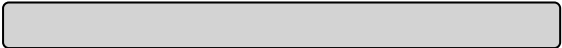
Get OHLC (open/high/low/close, otherwise known as candle) data for a given market. Note that the last entry in the OHLC array is for the current, not-yet-committed frame and will always be present, regardless of the value of since.

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

### query Parameters

pair	string
	Example: pair=XBTUSD
required	Asset pair to get data for
interval	integer
	Default: 1
	Enum: 1 5 15 30 60 240 1440 10080 21600
	Example: interval=60
	Time frame interval in minutes
since	integer
	Example: since=1548111600
	Return up to 720 OHLC data points since given timestamp

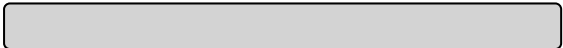
Responses



200

OHLC data retrieved.

Response Schema: application/json

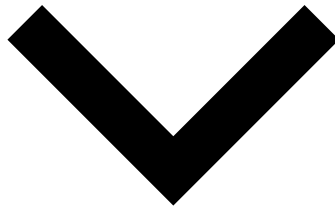


object

result

error

Array of  
strings (error)



get/public/OHLC

Production Server

<https://api.kraken.com/0/public/OHLC>

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/OHLC?pair=XBТУSD"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "XXBTZUSD": [
    - [1688671200, "30306.1", "30306.2", "30305.7", "30305.7",

```

      ■ "30306.1",
      ■ "3.39243896",
      ■ 23
    ],
    ■ [
      ■ 1688671260,
      ■ "30304.5",
      ■ "30304.5",
      ■ "30300.0",
      ■ "30300.0",
      ■ "30300.0",
      ■ "4.42996871",
      ■ 18
    ],
    ■ [
      ■ 1688671320,
      ■ "30300.3",
      ■ "30300.4",
      ■ "30291.4",
      ■ "30291.4",
      ■ "30294.7",
      ■ "2.13024789",
      ■ 25
    ],
    ■ [
      ■ 1688671380,
      ■ "30291.8",
      ■ "30295.1",
      ■ "30291.8",
      ■ "30295.0",
      ■ "30293.8",
      ■ "1.01836275",
      ■ 9
    ]
  ],
  ○ "last": 1688672160
}
}

```

## Get Order Book

Get current order book details.

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

### query Parameters

pair      string

Example: pair=XBTUSD  
required Asset pair to get data for  
integer [ 1 .. 500 ]  
Default: 100  
count Example: count=2  
Maximum number of asks/bids

## Responses



**200**

Order book entries retrieved.

### Response Schema: application/json

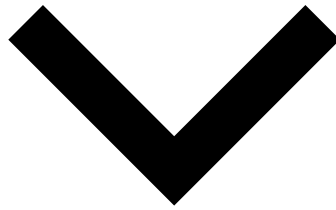


object

result

error

Array of  
strings (error)



get/public/Depth

Production Server

https://api.kraken.com/0/public/Depth

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Depth?pair=XBTUSD"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

```
• "error": [ ],
• "result": {
  ◦ "XXBTZUSD": {
    ▪ "asks": [
      ▪ [
        ▪ "30384.10000",
        ▪ "2.059",
        ▪ 1688671659
      ],

```





Example: since=1616663618

Return trade data since given timestamp

integer [ 1 .. 1000 ]

Default: 1000

count Example: count=2

Return specific number of trades, up to 1000

## Responses



**200**

Trade data retrieved.

### Response Schema: application/json

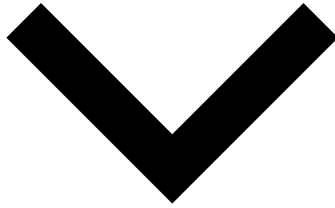


object

result

error

Array of  
strings (error)



get/public/Trades

Production Server

https://api.kraken.com/0/public/Trades

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Trades?pair=XBTUSD"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "XXBTZUSD": [
    - [
    - "30243.40000",
    - "0.34507674",
    - 1688669597.8277369,
    - "b",
    - "m",

```

        ■ "",
        ■ 61044952
    ],
    ■ [
        ■ "30243.30000",
        ■ "0.00376960",
        ■ 1688669598.2804112,
        ■ "s",
        ■ "l",
        ■ "",
        ■ 61044953
    ],
    ■ [
        ■ "30243.30000",
        ■ "0.01235716",
        ■ 1688669602.698379,
        ■ "s",
        ■ "m",
        ■ "",
        ■ 61044956
    ]
    ],
    ○ "last": "1688671969993150842"
}
}

```

## Get Recent Spreads

Returns the last ~200 top-of-book spreads for a given pair.

Note: Despite working previously, POST requests to this endpoint will now return a 4xx error. Please use a GET request instead.

### query Parameters

pair string  
 Example: pair=XBTUSD  
 required Asset pair to get data for

since integer  
 Example: since=1678219570

since Returns spread data since given timestamp. Optional, intended for incremental updates within available dataset (does not contain all historical spreads).

Responses



200

Spread data retrieved.

Response Schema: application/json

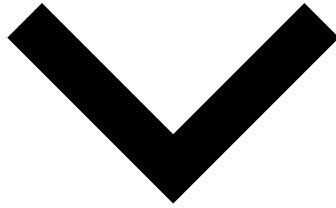


object

result

error

Array of  
strings (error)



get/public/Spread

Production Server

<https://api.kraken.com/0/public/Spread>

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Spread?pair=XBTUSD"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "XXBTZUSD": [
    - [1688671834, "30292.10000", "30297.50000"]

```

    ■ [
      ■ 1688671834,
      ■ "30292.10000",
      ■ "30296.70000"
    ],
    ■ [
      ■ 1688671834,
      ■ "30292.70000",
      ■ "30296.70000"
    ]
  ],
  ○ "last": 1688672106
}
}

```

# NFT Market Data

## Get NFT

Operation GetNft returns an NFT object by its identifier where identifier is a kraken internal identifier

**Request Body schema: application/x-www-form-urlencoded**

	string or null
currency	Fiat currency used for converting crypto prices
nft_id	string
required	Identifier of the NFT

Responses



200

Response

Response Schema: application/json

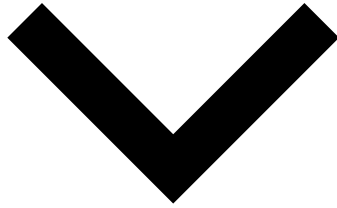
error  
required

Array of  
strings (error)



object or null

result



get/public/Nft

Production Server

<https://api.kraken.com/0/public/Nft>

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Nft?nft_id=NT4GUCU-SIJE2-YSQQG2"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

- ```
{
  "error": [ ],
  "result": {
    "nft": {
      "id": "NT4GUCU-SIJE2-YSQQG2",
      "name": "Williams Racing Collectibles+ Grid Pass",
      "description": "Grants access to a community of Williams Racing super-fans.",
      "max_count": 1,
      "external_url": null,
```



- "image": {
  - "kind": "Main",
  - "media": {
    - "url": "<https://assets-dynamic.kraken.com/media1/b51a13042bf7a4a6beaf0bbb17ca4bee10999370aa811fdb68db1>
    - "media\_type": "image/png",
    - "size": 2152243
- },
- "media": [
  - {
    - "kind": "Main",
    - "media": {
      - "url": "<https://assets-dynamic.kraken.com/media1/b51a13042bf7a4a6beaf0bbb17ca4bee10999370aa811fdb68db1>
      - "media\_type": "image/png",
      - "size": 2152243
- },
- {
  - "kind": "Video",
  - "media": {
    - "url": "<https://assets-dynamic.kraken.com/media1/177f9cd50f4b6ec154d609aa5862dc608f57bd4338>
    - "media\_type": "video/mp4",
    - "size": 243316230
- }
- ],
- "date\_added": 1696526499,
- "date\_minted": 1696525888,
- "token\_uri": "<https://nft-metadata.kraken.com/williams-grid-pass/3210>",
- "token": {
  - "blockchain": {
    - "id": "Polygon",
    - "asset": "MATIC"
  - },
  - "id": "3210",
  - "address": "0x1c09f530950513666b16da672d5f010fdb66d9da",
  - "symbol": "WRGRIDPASS",
  - "standard": "ERC-721",

```

    ■ "owner":
      "0xfc3e484b7da631b40c3b5495023d161b7ab8cb51"
  },
  ■ "creators": [
    ■ [REDACTED]{
      ■ "id": "NA7NELE-F0QFZ-ODW0TV",
      ■ "name": "Williams Racing",
      ■ "username": " ",
      ■ "description": "Williams Racing is one of
        the world's leading Formula One teams. It
        exists purely to race in the top echelon of
        motor racing, where it's been winning grands
        prix for more than three decades. The
        Williams name has been synonymous with top-
        level motorsport since the 1960s. \n\nAfter
        running teams on the sport's nursery slopes,
        team patron Frank Williams founded Frank
        Williams (Racing Cars) in 1966 and he
        entered F1 in 1969 with his friend Piers
        Courage behind the wheel. Frank quickly
        earned a reputation as one of the industry's
        more determined individuals and after
        selling his controlling interest in his
        original team, he established Williams Grand
        Prix Engineering with British engineer
        Patrick Head in 1977. They built their first
        car, the FW06, the following year and the
        team immediately went from strength-to-
        strength. \n\nWilliams is now the third most
        successful team on the grid.",
      ■ "blockchain data":
        [REDACTED][
          ■ [REDACTED]{
            ■ "blockchain": "Polygon",
            ■ "address":
              "0x1c09f530950513666b16da672d5f010fdb66d9da"
          }
        ],
      ■ "image": [REDACTED]{
        ■ "kind": "Main",
        ■ "media": [REDACTED]{
          ■ "url": "https://assets-
            dynamic.kraken.com/
            media/71802e3780ae54ca416845955146ed04a5b059",
          ■ "media_type": "image/png",
          ■ "size": 19582
        }
      },
    ],
  },

```

```

    ■ "top_banner": {
      ■ "kind": "TopBanner",
      ■ "media": {
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1/8d3b4bdc4718e476743627cbacb8903e4d3ffb
        ■ "media_type": "image/png",
        ■ "size": 6233635
      }
    },
    ■ "media": [
      ■ {
        ■ "kind": "Main",
        ■ "media": {
          ■ "url": "https://assets-
            dynamic.kraken.com/
            media1/71802e3780ae54ca416845955146ed04a5
          ■ "media_type": "image/png",
          ■ "size": 19582
        }
      },
      ■ {
        ■ "kind": "TopBanner",
        ■ "media": {
          ■ "url": "https://assets-
            dynamic.kraken.com/
            media1/8d3b4bdc4718e476743627cbacb8903e4c
          ■ "media_type": "image/png",
          ■ "size": 6233635
        }
      }
    ],
    ■ "tags": [ ],
    ■ "social media links": {
      ■ "instagram": "https://instagram.com/
        williamsracing/",
      ■ "twitter": "https://twitter.com/
        WilliamsRacing",
      ■ "web": "https://www.williamsf1.com/",
      ■ "facebook": "https://facebook.com/
        WilliamsF1Team"
    },
    ■ "verified": true,
    ■ "date_added": 1696953575
  }

```

```

],
■ "creator_fee": "0.0000",
■ "is_owed_by_user": false,
■ "custody": null,
■ "collection": {
  ■ "id": "NCQNAB0-XYCA7-JMMSDF",
  ■ "name": "Williams Racing Collectibles+ Grid
    Pass",
  ■ "description": "Plus-up your Williams Racing
    experience with our brand-new Grid Pass,
    presented by Kraken. Collect your free pass and
    unlock immediate exclusive digital and physical
    perks, plus access to unique Williams Racing
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    and experiences that the Williams Racing
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        ■ "asset_alt_name": "MATIC",
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        ■ "username": " ",
        ■ "description": "Williams Racing is one of the world's leading Formula One teams. It exists purely to race in the top echelon of motor racing, where it's been winning grands prix for more than three decades. The Williams name has been synonymous with top-level motorsport since the 1960s. \n\nAfter running teams on the sport's nursery slopes, team patron Frank Williams founded Frank Williams (Racing Cars) in 1966 and he entered F1 in 1969 with his friend Piers Courage behind the wheel. Frank quickly earned a reputation as one

```

of the industry's more determined individuals and after selling his controlling interest in his original team, he established Williams Grand Prix Engineering with British engineer Patrick Head in 1977. They built their first car, the FW06, the following year and the team immediately went from strength-to-strength. \n\nWilliams is now the third most successful team on the grid.",

- "blockchain data":
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        ■ "twitter": "https://twitter.com/  
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        ■ "facebook": "https://facebook.com/  
WilliamsF1Team"
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■ "traits": { },

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      ■ "twitter": "https://twitter.com/WilliamsRacing"
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  ■ "tags": [ ],
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      ■ "asset_alt_name": "MATIC",
      ■ "amount": "0.000000000000"
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  ■ "last_sale_or_mint": null,
  ■ "best_offer": null,
  ■ "burned": false,
  ■ "expiry_date": null

```



```
    }  
  }  
}
```

## List NFTs

Returns a list of NFTs with support for sorting and filtration.

**Request Body schema: application/x-www-form-urlencoded**

|          |                                                               |
|----------|---------------------------------------------------------------|
|          | string or null                                                |
| currency | Fiat currency used for converting crypto prices.              |
|          | string or null                                                |
| cursor   | Cursor token. Pass tokens obtained from successful responses. |



|                       |                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | object or null                                                                                                                                                                      |
|                       | Filters to apply. Note: if filters are present, they are required to be passed for an initial request and omitted for subsequent ones.                                              |
| filter                |                                                                                                                                                                                     |
|                       | integer <uint16> >= 0                                                                                                                                                               |
| page_size<br>required | Maximum number of items to be returned by a single request.                                                                                                                         |
|                       | string or null                                                                                                                                                                      |
|                       | Enum: "MostRelevant" "RecentlyAdded" "RecentlyVerified" "RecentlySold" "EndingSoon" "PriceLowToHigh" "PriceHighToLow" "HighestLastSell" "RarityRankLowToHigh" "RarityRankHighToLow" |
| sort                  | Sorting to apply. Note: sort parameter is required to be passed for an initial                                                                                                      |

request and omitted for subsequent ones.

Responses



200

Response

Response Schema: application/json

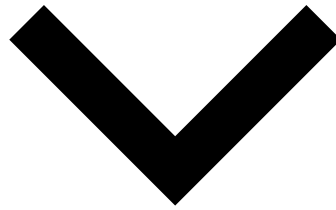
error  
required

Array of strings (error)



object or null  
Batch of paginated items from list APIs.

result



get/public/Nfts

Production Server

https://api.kraken.com/0/public/Nfts

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/Nfts?filter%5Bcollection_id%5D=NCQNA"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

- ```
{
  "error": [ ],
  "result": {
    "total_items": {
      "relation": "eq",
      "value": 100000
    },
    "cursor":
      "NuWr7HkEMs9pN4,UBVpe32qpoQp1F05T_HecRDdZEoZzWzfqRVKvUEEVA5P2prYP4"
```

```
◦ "items": [
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    ■ "id": "NTCI6ZY-NBTDN-IP62PI",
    ■ "name": "Williams Racing Collectibles+ Grid Pass",
    ■ "description": "Grants access to a community of Williams Racing super-fans.",
    ■ "image": [REDACTED] {
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        ■ "size": 2152243
      }
    },
    ■ "media": [REDACTED] [
      ■ [REDACTED] {
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        ■ "media": [REDACTED] {
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          ■ "size": 2152243
        }
      },
      ■ [REDACTED] {
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      }
    ],
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      ■ [REDACTED] {
        ■ "id": "NA7NELE-FOQFZ-ODWOTV",
        ■ "name": "Williams Racing",
        ■ "username": " ",

```

```

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      ■ "size": 60183
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      ■ "asset_alt_name": "AED",
      ■ "amount": "1.8400"
    },
    ■ "native": {
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      ■ "asset_alt_name": "MATIC",
      ■ "amount": "0.5907577600"
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    ■ "fiat": {
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      ■ "asset_alt_name": "USD",
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  }
}

```

```

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    ■ "symbol": "WRGRIDPASS",
    ■ "standard": "ERC-721",
    ■ "owner":
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```
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      ■ "asset_alt_name": "MATIC",
      ■ "amount": "0.5907577600"
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        ■ "asset_alt_name": "AED",
        ■ "amount": "1.8400"
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        ■ "asset_alt_name": "MATIC",
        ■ "amount": "0.5907577600"
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      }
  }
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      ■ "amount": "0.0000"
    }
  },
  ■ "buy_now": null,
  ■ "last_auction_sale": null,
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```

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        ■ "standard": "ERC-721",
        ■ "owner":
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            "size": 19582
          }
        },
        "verified": true
      }
    ],
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Pass",
      "image": {
        "kind": "Main",
        "media": {
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          ■ "media_type": "image/png",
          ■ "size": 2152243
        }
      },
      ■ [REDACTED]{
        ■ "kind": "Video",
        ■ "media": [REDACTED]{
          ■ "url": "https://assets-
            dynamic.kraken.com/
            media1/177f9cd50f4b6ec154d609aa5862dc608f57bd",
          ■ "media_type": "video/mp4",
          ■ "size": 243316230
        }
      }
    ]
  },
],

```

```
■ "date_added": 1697127194,
■ "creator_fee": "0.0000",
■ "creators": [
  ■ [REDACTED]{
    ■ "id": "NA7NELE-FOQFZ-ODWOTV",
    ■ "name": "Williams Racing",
    ■ "username": " ",
    ■ "image": [REDACTED]{
      ■ "kind": "Main",
      ■ "media": [REDACTED]{
        ■ "url": "https://assets-dynamic.kraken.com/media/71802e3780ae54ca416845955146ed04a5",
        ■ "media_type": "image/png",
        ■ "size": 19582
      }
    },
    ■ "verified": true
  },
],
■ "collection": [REDACTED]{
  ■ "id": "NCQNAB0-XYCA7-JMMSDF",
  ■ "name": "Williams Racing Collectibles+ Grid Pass",
  ■ "image": [REDACTED]{
    ■ "kind": "Main",
    ■ "media": [REDACTED]{
      ■ "url": "https://assets-dynamic.kraken.com/media/51c66513591958f4e123679890226f890bf255",
      ■ "media_type": "image/png",
      ■ "size": 60183
    }
  },
  ■ "verified": true,
  ■ "total_items": 100000,
  ■ "floor_price": [REDACTED]
  {
    ■ "original": [REDACTED]{
      ■ "asset_name": "AED",
      ■ "asset_alt_name": "AED",
      ■ "amount": "1.8400"
    },
    ■ "native": [REDACTED]{
      ■ "asset_name": "MATIC",
```

```

        ■ "asset_alt_name": "MATIC",
        ■ "amount": "0.5907577600"
    },
    ■ "fiat": {
        ■ "asset_name": "USD",
        ■ "asset_alt_name": "USD",
        ■ "amount": "0.5010"
    }
}
},
■ "is_owned_by_user": false,
■ "custody": null,
■ "on_sale": false,
■ "on_sale_status": "NotListed",
■ "price": {
    ■ "native": {
        ■ "asset_name": "MATIC",
        ■ "asset_alt_name": "MATIC",
        ■ "amount": "0.0000000000"
    },
    ■ "fiat": {
        ■ "asset_name": "USD",
        ■ "asset_alt_name": "USD",
        ■ "amount": "0.0000"
    }
},
■ "buy_now": null,
■ "last_auction_sale": null,
■ "last_sale_or_mint": null,
■ "best_offer": null,
■ "token": {
    ■ "blockchain": {
        ■ "id": "Polygon",
        ■ "asset": "MATIC"
    },
    ■ "id": "99990",
    ■ "address":
        "0x1c09f530950513666b16da672d5f010fdb66d9da",
    ■ "symbol": "WRGRIDPASS",
    ■ "standard": "ERC-721",
    ■ "owner":
        "0xfc3e484b7da631b40c3b5495023d161b7ab8cb51"
},
■ "burned": false,
■ "rarity_rank": null
}
]
}

```

}

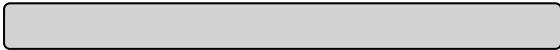
## getNftProvenance

Operation GetNftProvenance returns history of NFT ownership for a particular nft ID.

**Request Body schema: application/x-www-form-urlencoded**

	string or null
currency	Fiat currency used for converting crypto prices
nft_id	string
required	integer <uint16> [ 1 .. 65536 ] Default: 1
page	Page number with query results starting from one
per_page	integer <uint16> [ 1 .. 1000 ] Default: 5

## Responses



**200**

Response

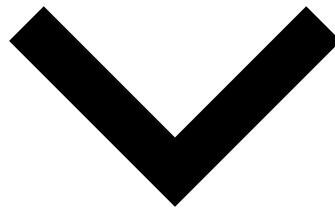
**Response Schema: application/json**

error	Array of
required	strings (error)
	object or null





result



get/public/NftProvenance

Production Server

<https://api.kraken.com/0/public/NftProvenance>

## Request samples

- cURL
- Python



```
curl "https://api.kraken.com/0/public/NftProvenance?nft_id=NT7EYX2-D7QVC-S"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	

```
{
  • "error": [ ],
  • "result": {
    ◦ "items": [
      ■ {
        ■ "kind": "sale",
        ■ "nft_id": "NT7EYX2-D7QVC-S7JDLE",
        ■ "blockchain": "Ethereum",
        ■ "from":
          "0xaeb3fea566c8bcb7ae6826a03f818d9d386169ba",
        ■ "to":
          "0xdc5dc5b18f09cdf1ae14862e8e4665369e614ce7",
        ■ "count": 1,
        ■ "when": 1658139300,
        ■ "txid":
          "0x1fced7290921922e6b1f2b1566e71968d31549b3762740d03a1ed4",
        ■ "amount": {
          ■ "native": {
            ■ "asset_name": "ETH",
            ■ "asset_alt_name": "ETH",
            ■ "amount": "0.0100000000"
          },
          ■ "fiat": {
            ■ "asset_name": "USD",
            ■ "asset_alt_name": "USD",
            ■ "amount": "25.2324"
          }
        }
      },
      ■ {
        ■ "kind": "mint",
        ■ "nft_id": "NT7EYX2-D7QVC-S7JDLE",
        ■ "blockchain": "Ethereum",
        ■ "from":
          "0x0000000000000000000000000000000000000000000000000000000000000000",
        ■ "to":
          "0xaeb3fea566c8bcb7ae6826a03f818d9d386169ba",
        ■ "count": 1,
        ■ "when": 1639091332,
        ■ "txid":
          "0xf8db308e1f0c5a7dfe75b78a0b8d1090a61e05de1c89a7e287f656",
        ■ "amount": null
      }
    ],
  },
},
],
```

```

    ◦ "total": 2
  }
}

```

## getCollection

Returns a NFT Collection object by its identifier where identifier is a kraken internal identifier

**Request Body schema: application/x-www-form-urlencoded**

collection_id	string
required	ID of the collection
	string or null
currency	Fiat currency used for converting crypto prices

## Responses



**200**

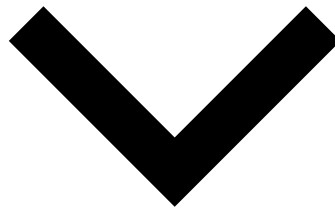
Response

**Response Schema: application/json**

error	Array of
required	strings (error)
	object or null



result



get/public/NftCollection

Production Server

<https://api.kraken.com/0/public/NftCollection>

## Request samples

- cURL
- Python



```
curl "https://api.kraken.com/0/public/NftCollection?collection_id=NCQNAB0-
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
	{

```

• "error": [ ],
• "result": {
  ◦ "collection": {
    ■ "id": "NCQNAB0-XYCA7-JMMSDF",
    ■ "name": "Williams Racing Collectibles+ Grid Pass",
    ■ "description": "Plus-up your Williams Racing
    experience with our brand-new Grid Pass, presented
    by Kraken. Collect your free pass and unlock
    immediate exclusive digital and physical perks, plus
    access to unique Williams Racing experiences. The
    Grid Pass is each holders' "ignition key" to power
    the engine of benefits and experiences that the
    Williams Racing Collectibles+ program will
    provide.",
    ■ "date_added": 1696338839,
    ■ "image": {
      ■ "kind": "Main",
      ■ "media": {
        ■ "url": "https://assets-dynamic.kraken.com/
        media1/51c66513591958f4e123679890226f890bf255e298e006",
        ■ "media_type": "image/png",
        ■ "size": 60183
      }
    },
    ■ "top_banner": {
      ■ "kind": "TopBanner",
      ■ "media": {
        ■ "url": "https://assets-dynamic.kraken.com/
        media1/6b69f72e13fcda3e3e0d6839f260cd7a3c4ac644fa4a2c",
        ■ "media_type": "image/png",
        ■ "size": 488376
      }
    },
    ■ "media": [
      ■ {
        ■ "kind": "Main",
        ■ "media": {
          ■ "url": "https://assets-
          dynamic.kraken.com/
          media1/51c66513591958f4e123679890226f890bf255e298",
          ■ "media_type": "image/png",
          ■ "size": 60183
        }
      }
    ]
  }
}

```

```

    },
    ■ [REDACTED]{
        ■ "kind": "TopBanner",
        ■ "media": [REDACTED]{
            ■ "url": "https://assets-dynamic.kraken.com/media1/6b69f72e13fcda3e3e0d6839f260cd7a3c4ac644fa",
            ■ "media_type": "image/png",
            ■ "size": 488376
        }
    }
],
■ "floor_price": [REDACTED]{
    ■ "original": [REDACTED]{
        ■ "asset_name": "AED",
        ■ "asset_alt_name": "AED",
        ■ "amount": "1.8400"
    },
    ■ "native": [REDACTED]{
        ■ "asset_name": "MATIC",
        ■ "asset_alt_name": "MATIC",
        ■ "amount": "0.5907577600"
    },
    ■ "fiat": [REDACTED]{
        ■ "asset_name": "USD",
        ■ "asset_alt_name": "USD",
        ■ "amount": "0.5010"
    }
},
■ "creators": [REDACTED][
    ■ [REDACTED]{
        ■ "id": "NA7NELE-FOQFZ-ODWOTV",
        ■ "name": "Williams Racing",
        ■ "username": " ",
        ■ "description": "Williams Racing is one of the world's leading Formula One teams. It exists purely to race in the top echelon of motor racing, where it's been winning grands prix for more than three decades. The Williams name has been synonymous with top-level motorsport since the 1960s. \n\nAfter running teams on the sport's nursery slopes, team patron Frank Williams founded Frank Williams (Racing Cars) in 1966 and he entered F1 in 1969 with his friend Piers Courage behind the wheel. Frank quickly earned a reputation as one of the industry's more determined individuals and after

```

selling his controlling interest in his original team, he established Williams Grand Prix Engineering with British engineer Patrick Head in 1977. They built their first car, the FW06, the following year and the team immediately went from strength-to-strength. \n\nWilliams is now the third most successful team on the grid.",

- "blockchain data":
  - [
    - [redacted]{
      - "blockchain": "Polygon",
      - "address": "0x1c09f530950513666b16da672d5f010fdb66d9da"
- ],
- "image": [redacted]{
  - "kind": "Main",
  - "media": [redacted]{
    - "url": "<https://assets-dynamic.kraken.com/media1/71802e3780ae54ca416845955146ed04a5b059>",
    - "media\_type": "image/png",
    - "size": 19582
- }
- },
- "top\_banner": [redacted]{
  - "kind": "TopBanner",
  - "media": [redacted]{
    - "url": "<https://assets-dynamic.kraken.com/media1/8d3b4bdc4718e476743627cbacb8903e4d3ffb>",
    - "media\_type": "image/png",
    - "size": 6233635
- }
- },
- "media": [redacted][
  - [redacted]{
    - "kind": "Main",
    - "media": [redacted]{
      - "url": "<https://assets-dynamic.kraken.com/media1/71802e3780ae54ca416845955146ed04a5b059>",
      - "media\_type": "image/png",
      - "size": 19582
- }

```

    },
    ■ [REDACTED]{
        ■ "kind": "TopBanner",
        ■ "media":
            [REDACTED]{
                ■ "url": "https://assets-dynamic.kraken.com/media1/8d3b4bdc4718e476743627cbacb8903e4c",
                ■ "media_type": "image/png",
                ■ "size": 6233635
            }
        }
    ],
    ■ "tags": [ ],
    ■ "social_media_links":
        [REDACTED]{
            ■ "twitter": "https://twitter.com/WilliamsRacing",
            ■ "facebook": "https://facebook.com/WilliamsF1Team",
            ■ "instagram": "https://instagram.com/williamsracing/",
            ■ "web": "https://www.williamsf1.com/"
        },
    ■ "verified": true,
    ■ "date_added": 1696953575
}
],
■ "total_items": 100000,
■ "total_owners": 0,
■ "total_sales": null,
■ "total_volume": null,
■ "market_cap": null,
■ "seven_day_volume": null,
■ "seven_day_average_price": null,
■ "tags": [ ],
■ "verified": true,
■ "traits": { },
■ "blockchain_data": [REDACTED][
    ■ [REDACTED]{
        ■ "address":
            "0x1c09f530950513666b16da672d5f010fdb66d9da",
        ■ "blockchain": [REDACTED]{
            ■ "id": "Polygon",
            ■ "asset": "MATIC"
        },
        ■ "symbol": "WRGRIDPASS"
    }
],

```



```

    ■ "social_media_links": {
      ■ "facebook": "https://facebook.com/WilliamsF1Team",
      ■ "web": "https://www.williamsf1.com/",
      ■ "instagram": "https://instagram.com/williamsracing/",
      ■ "twitter": "https://twitter.com/WilliamsRacing"
    }
  }
}

```

## listCollections

Returns a list of NFTs with support for sorting and filtration.

**Request Body schema: application/x-www-form-urlencoded**

	string or null
currency	Fiat currency used for converting crypto prices.
	string or null
cursor	Cursor token. Pass tokens obtained from successful responses.



	object or null
	Filters to apply. Note: if filters are present, they are required to be passed for an initial request and omitted for subsequent ones.
filter	
	integer <uint16> >= 0
page_size required	Maximum number of items to be returned by a single request.
sort	string or null

Enum: "RecentlyAdded"  
"RecentlyVerified" "PriceLowToHigh"  
"PriceHighToLow" "NameAsc"  
"NameDesc" "TotalVolumeAsc"  
"TotalVolumeDesc"  
"SevenDayVolumeAsc"  
"SevenDayVolumeDesc"  
"SevenDayAveragePriceAsc"  
"SevenDayAveragePriceDesc"  
"OwnerCountAsc" "OwnerCountDesc"  
"MostRelevant"  
"ByAllTimeKrakenVolumeAsc"  
"ByAllTimeKrakenVolumeDesc"  
"By30DaysKrakenVolumeAsc"  
"By30DaysKrakenVolumeDesc"  
"By7DaysKrakenVolumeAsc"  
"By7DaysKrakenVolumeDesc"  
"By24HoursKrakenVolumeAsc"  
"By24HoursKrakenVolumeDesc"

Sorting to apply. Note: sort parameter is required to be passed for an initial request and omitted for subsequent ones.

Responses



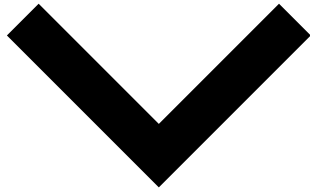
200

Response

Response Schema: application/json

error  
required

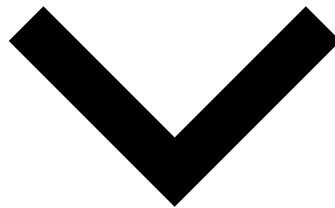
Array of strings (error)



object or null

Batch of paginated items from list APIs.

result



get/public/NftCollections

Production Server

<https://api.kraken.com/0/public/NftCollections>

## Request samples

- cURL
- Python



```
curl "https://api.kraken.com/0/public/NftCollections?page_size=10&filter%
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	

```
{
  • "error": [ ],
  • "result": {
    ◦ "total_items": {
      ■ "relation": "eq",
      ■ "value": 2
    },
    ◦ "items": [
      ■ {
        ■ "id": "NCQNAB0-XYCA7-JMMSDF",
        ■ "name": "Williams Racing Collectibles+ Grid Pass",
        ■ "description": "Plus-up your Williams Racing experience with our brand-new Grid Pass, presented by Kraken. Collect your free pass and unlock immediate exclusive digital and physical perks, plus access to unique Williams Racing experiences. The Grid Pass is each holders' "ignition key" to power the engine of benefits and experiences that the Williams Racing Collectibles+ program will provide.",
        ■ "date_added": 1696338839,
        ■ "image": {
          ■ "kind": "Main",
          ■ "media": {
            ■ "url": "https://assets-dynamic.kraken.com/media1/51c66513591958f4e123679890226f890bf255e298",
            ■ "media_type": "image/png",
            ■ "size": 60183
          }
        },
        ■ "top_banner": {
          ■ "kind": "TopBanner",
          ■ "media": {
            ■ "url": "https://assets-dynamic.kraken.com/media1/6b69f72e13fcda3e3e0d6839f260cd7a3c4ac644fa",
            ■ "media_type": "image/png",
            ■ "size": 488376
          }
        }
      }
    ],
  },
}
```

```

    ■ "floor_price": [REDACTED]{
      ■ "original": [REDACTED]{
        ■ "asset_name": "AED",
        ■ "asset_alt_name": "AED",
        ■ "amount": "1.8400"
      },
      ■ "native": [REDACTED]{
        ■ "asset_name": "MATIC",
        ■ "asset_alt_name": "MATIC",
        ■ "amount": "0.5907577600"
      },
      ■ "fiat": [REDACTED]{
        ■ "asset_name": "USD",
        ■ "asset_alt_name": "USD",
        ■ "amount": "0.5010"
      }
    },
    ■ "creators": [REDACTED][
      ■ [REDACTED]{
        ■ "id": "NA7NELE-F0QFZ-0DW0TV",
        ■ "name": "Williams Racing",
        ■ "username": " ",
        ■ "image": [REDACTED]{
          ■ "kind": "Main",
          ■ "media": [REDACTED]{
            ■ "url": "https://assets-dynamic.kraken.com/media1/71802e3780ae54ca416845955146ed04a5",
            ■ "media_type": "image/png",
            ■ "size": 19582
          }
        }
      },
      ■ "verified": true
    ]
  },
  ■ "total_items": 100000,
  ■ "total_owners": 0,
  ■ "total_owners_change": null,
  ■ "total_sales": null,
  ■ "total_volume": null,
  ■ "total_volume_change": null,
  ■ "market_cap": null,
  ■ "seven_day_volume": null,
  ■ "seven_day_volume_change": null,
  ■ "seven_day_average_price": null,
  ■ "seven_day_average_price_change": null,
  ■ "verified": true,

```

```

■ "volume stats kraken":
  {
    ■ "total": {
      ■ "asset_name": "USD",
      ■ "asset_alt_name": "USD",
      ■ "amount": "1422.9446"
    },
    ■ "days_30": {
      ■ "asset_name": "USD",
      ■ "asset_alt_name": "USD",
      ■ "amount": "564.6989"
    },
    ■ "days_7": {
      ■ "asset_name": "USD",
      ■ "asset_alt_name": "USD",
      ■ "amount": "10.0214"
    },
    ■ "hours_24": {
      ■ "asset_name": "USD",
      ■ "asset_alt_name": "USD",
      ■ "amount": "0.0000"
    },
    ■ "days_7_change": "-98.15",
    ■ "hours_24_change": "-100.00"
  },
  {
    ■ "id": "NC35CAI-A5DKX-BHMJDT",
    ■ "name": "Gulf x Williams Racing 'Bolder than Bold' Fan Livery",
    ■ "description": "A collectible created by Kraken in collaboration with Williams and Gulf Oil.",
    ■ "date_added": 1701203657,
    ■ "image": {
      ■ "kind": "Main",
      ■ "media": {
        ■ "url": "https://assets-dynamic.kraken.com/media/e71bc1bdaf0f1713d75fe80346241f3fea9fb008a6edf4b98",
        ■ "media_type": "image/png",
        ■ "size": 447164
      }
    },
    ■ "top_banner": {
      ■ "kind": "TopBanner",

```

```

    ■ "media": [REDACTED]{
      ■ "url": "https://assets-
dynamic.kraken.com/
media1/8586973407a01c59ad89ef67739d76649bdc768a72
",
      ■ "media_type": "image/png",
      ■ "size": 594465
    },
  },
  ■ "floor_price": [REDACTED]{
    ■ "original": [REDACTED]{
      ■ "asset_name": "EUR",
      ■ "asset_alt_name": "EUR",
      ■ "amount": "0.7300"
    },
    ■ "native": [REDACTED]{
      ■ "asset_name": "MATIC",
      ■ "asset_alt_name": "MATIC",
      ■ "amount": "0.9270941600"
    },
    ■ "fiat": [REDACTED]{
      ■ "asset_name": "USD",
      ■ "asset_alt_name": "USD",
      ■ "amount": "0.7862"
    }
  },
  ■ "creators": [REDACTED][
    ■ [REDACTED]{
      ■ "id": "NA7NELE-FOQFZ-ODWOTV",
      ■ "name": "Williams Racing",
      ■ "username": " ",
      ■ "image": [REDACTED]{
        ■ "kind": "Main",
        ■ "media": [REDACTED]{
          ■ "url": "https://assets-
dynamic.kraken.com/
media1/71802e3780ae54ca416845955146ed04a5
",
          ■ "media_type": "image/png",
          ■ "size": 19582
        }
      },
      ■ "verified": true
    }
  ],
  ■ "total_items": 31423,
  ■ "total_owners": 0,
  ■ "total_owners_change": null,

```

```

    ■ "total_sales": null,
    ■ "total_volume": null,
    ■ "total_volume_change": null,
    ■ "market_cap": null,
    ■ "seven_day_volume": null,
    ■ "seven_day_volume_change": null,
    ■ "seven_day_average_price": null,
    ■ "seven_day_average_price_change": null,
    ■ "verified": true,
    ■ "volume_stats_kraken":
      {
        ■ "total": {
          ■ "asset_name": "USD",
          ■ "asset_alt_name": "USD",
          ■ "amount": "8022.6171"
        },
        ■ "days_30": {
          ■ "asset_name": "USD",
          ■ "asset_alt_name": "USD",
          ■ "amount": "750.6086"
        },
        ■ "days_7": {
          ■ "asset_name": "USD",
          ■ "asset_alt_name": "USD",
          ■ "amount": "202.3166"
        },
        ■ "hours_24": {
          ■ "asset_name": "USD",
          ■ "asset_alt_name": "USD",
          ■ "amount": "0.0000"
        },
        ■ "days_7_change": "191.32",
        ■ "hours_24_change": "-100.00"
      }
    }
  ]
}

```

## getCreator

Returns a NFT Collection object by its identifier where identifier is a kraken internal identifier

**Request Body schema: application/x-www-form-urlencoded**

creator\_id string



required Identifier of the Creator.

## Responses



**200**

Response

### Response Schema: application/json

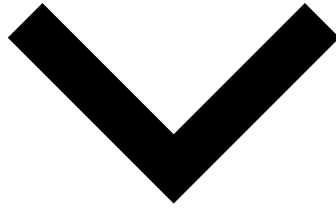
error  
required

Array of  
strings (error)



object or null

result



get/public/NftCreator

Production Server

<https://api.kraken.com/0/public/NftCreator>

## Request samples

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/NftCreator?creator_id=NA7NELE-F0QFZ-
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": 

{
  - "creator": 

{
    - "id": "NA7NELE-F0QFZ-ODWOTV",
    - "name": "Williams Racing",
    - "username": " ",
    - "description": "Williams Racing is one of the world's leading Formula One teams. It exists purely to race in the top echelon of motor racing, where it's been winning grands prix for more than three

decades. The Williams name has been synonymous with top-level motorsport since the 1960s. \n\nAfter running teams on the sport's nursery slopes, team patron Frank Williams founded Frank Williams (Racing Cars) in 1966 and he entered F1 in 1969 with his friend Piers Courage behind the wheel. Frank quickly earned a reputation as one of the industry's more determined individuals and after selling his controlling interest in his original team, he established Williams Grand Prix Engineering with British engineer Patrick Head in 1977. They built their first car, the FW06, the following year and the team immediately went from strength-to-strength. \n\nWilliams is now the third most successful team on the grid.",

- "blockchain data": [
    - {
      - "blockchain": "Polygon",
      - "address": "0x1c09f530950513666b16da672d5f010fdb66d9da"
- ],
- "image": {
  - "kind": "Main",
  - "media": {
    - "url": "<https://assets-dynamic.kraken.com/media1/71802e3780ae54ca416845955146ed04a5b059af0d08a6>
    - "media\_type": "image/png",
    - "size": 19582
- },
- "top\_banner": {
  - "kind": "TopBanner",
  - "media": {
    - "url": "<https://assets-dynamic.kraken.com/media1/8d3b4bdc4718e476743627cbacb8903e4d3fffb3289c2cc>
    - "media\_type": "image/png",
    - "size": 6233635
- },
- "media": [
  - {
    - "kind": "Main",
    - "media": {
      - "url": "<https://assets-dynamic.kraken.com/media1/71802e3780ae54ca416845955146ed04a5b059af0d>

```

        ■ "media_type": "image/png",
        ■ "size": 19582
      },
    },
    ■ [REDACTED]{
      ■ "kind": "TopBanner",
      ■ "media": [REDACTED]{
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1/8d3b4bdc4718e476743627cbacb8903e4d3ffb3289
        ■ "media_type": "image/png",
        ■ "size": 6233635
      }
    }
  ],
  ■ "tags": [ ],
  ■ "social_media_links": [REDACTED]{
    ■ "facebook": "https://facebook.com/
      WilliamsF1Team",
    ■ "twitter": "https://twitter.com/WilliamsRacing",
    ■ "instagram": "https://instagram.com/
      williamsracing/",
    ■ "web": "https://www.williamsf1.com/"
  },
  ■ "verified": true,
  ■ "date_added": 1696953575
}
}
}

```

## listCreators

Returns a list of NFTs with support for sorting and filtration.

**Request Body schema: application/x-www-form-urlencoded**

	string or null
currency	Fiat currency used for converting crypto prices.
	string or null
cursor	Cursor token. Pass tokens obtained from successful responses.
	object or null



Filters to apply. Note: if filters are present, they are required to be passed for an initial request and omitted for subsequent ones.

filter

integer <uint16> >= 0

page\_size  
required

Maximum number of items to be returned by a single request.

string or null  
Enum: "RecentlyAdded"  
"RecentlyVerified" "MostRelevant"

sort

Sorting to apply. Note: sort parameter is required to be passed for an initial request and omitted for subsequent ones.

## Responses



200

Response

**Response Schema: application/json**

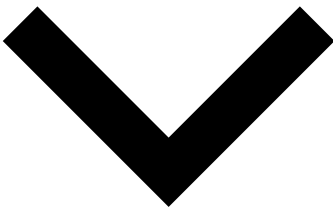
error  
required

Array of strings (error)



object or null  
Batch of paginated items from list APIs.

result



get/public/NftCreators  
Production Server  
<https://api.kraken.com/0/public/NftCreators>

**Request samples**

- cURL
- Python

Copy

```
curl "https://api.kraken.com/0/public/NftCreators?filter%5Bcollection_search"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
	{

- "error": [ ],
- "result": {
  - "total\_items": {
    - "relation": "eq",
    - "value": 1
  - },
  - "items": [
    - {
      - "id": "NA7NELE-F0QFZ-ODWOTV",
      - "name": "Williams Racing",
      - "username": " ",
      - "description": "Williams Racing is one of the world's leading Formula One teams. It exists purely to race in the top echelon of motor racing, where it's been winning grands prix for more than three decades. The Williams name has been synonymous with top-level motorsport since the 1960s. \n\nAfter running teams on the sport's nursery slopes, team patron Frank Williams founded Frank Williams (Racing Cars) in 1966 and he entered F1 in 1969 with his friend Piers Courage behind the wheel. Frank quickly earned a reputation as one of the industry's more determined individuals and after selling his controlling interest in his original team, he established Williams Grand Prix Engineering with British engineer Patrick Head in 1977. They built their first car, the FW06, the following year and the team immediately went from strength-to-strength. \n\nWilliams is now the third most successful team on the grid.",
      - "image": {
        - "kind": "Main",
        - "media": {
          - "url": "<https://assets-dynamic.kraken.com/media1/71802e3780ae54ca416845955146ed04a5b059af0d>
          - "media\_type": "image/png",

```

        ■ "size": 19582
      },
    },
    ■ "top_banner": {
      ■ "kind": "TopBanner",
      ■ "media": {
        ■ "url": "https://assets-
dynamic.kraken.com/
media1/8d3b4bdc4718e476743627cbacb8903e4d3ffb3289
        ■ "media_type": "image/png",
        ■ "size": 6233635
      }
    },
    ■ "verified": true,
    ■ "date_added": 1696953575
  }
]
}
}

```

## listBlockchains

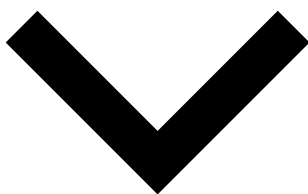
Returns a list of supported blockchains and associated currencies.

### Responses

```

{
  "blockchains": [
    {
      "id": "BTC",
      "name": "Bitcoin",
      "symbol": "BTC",
      "decimals": 8,
      "is_verified": true,
      "date_added": 1696953575
    }
  ]
}

```



200

Response



**Response Schema: application/json**

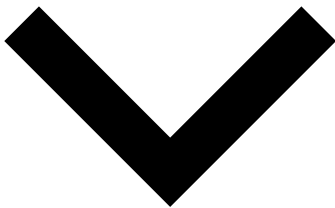
error  
required

Array of  
strings (error)



object or null

result



get/public/NftBlockchains

Production Server

https://api.kraken.com/0/public/NftBlockchains

**Request samples**

- cURL
- Python

Copy

curl -X "GET" "https://api.kraken.com/0/public/NftBlockchains"

# Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

```
{
  "error": [ ],
  "result": {
    "items": [
      {
        "id": "Ethereum",
        "asset": "ETH"
      },
      {
        "id": "Solana",
        "asset": "SOL"
      },
      {
        "id": "Polygon",
        "asset": "MATIC"
      }
    ],
    "total": 3
  }
}
```

## getAuctions

Get NFT auctions. Returns information about a specific auction. The auction can be retrieved by either the auction identifier or the NFT identifier.

Responses



200

Response

Response Schema: application/json

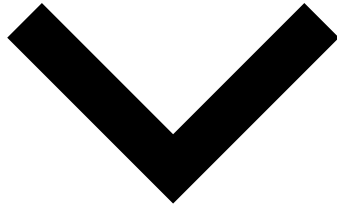
error  
required

Array of  
strings (error)



Array of objects or null

result



get/public/NftAuctions

Production Server

<https://api.kraken.com/0/public/NftAuctions>

## Request samples

- cURL
- Python

Copy

```
curl -X "GET" "https://api.kraken.com/0/public/NftAuctions?status=open&nft"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": [
  - {
    - "auction\_id": "AJ4ZEP-7BC2W-AAK2P6",
    - "quote\_currency": "SOL",
    - "user": "utility-oyster-kiwi",
    - "type": "fixed",
    - "bids": [ ],
    - "status": "open",
    - "start\_time": 0,

```

    ■ "expiry_time": 0,
    ■ "extension_time": 0,
    ■ "reserve_price": "0.000000000000",
    ■ "buyout_price": "6.950000000000",
    ■ "nft_ids": [
      ■ "NTN63WS-PBAV3-FQDQDG"
    ],
    ■ "root_id": "",
    ■ "status_detail": "OPEN"
  }
]
}

```

## getOffers

Get NFT offers. Gets the offers placed for a specific NFT.

### Responses

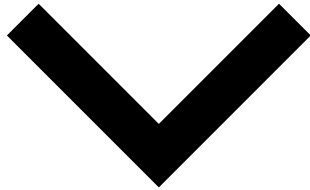


**200**

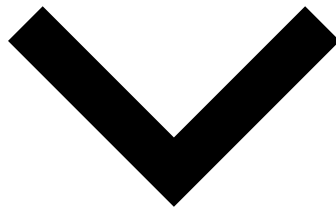
Response

#### Response Schema: application/json

error required	Array of strings (error) object or null
-------------------	-----------------------------------------------



result



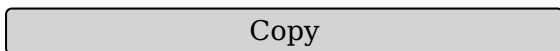
get/public/NftOffers

Production Server

<https://api.kraken.com/0/public/NftOffers>

## Request samples

- cURL
- Python



```
curl "https://api.kraken.com/0/public/NftOffers?nft_id=NT4GUCU-SIJE2-YSQQG"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	

```
{
  • "result": {
    ◦ "offers": [
      ■ {
        ■ "id": "ONQYPLG-OFARL-35RBG0",
        ■ "amount": "0.500000000000",
        ■ "volume": 1,
        ■ "time": 1700703273865968600,
        ■ "social_id": "fee-web-combine",
        ■ "currency": "ETH",
        ■ "type": "Buy",
        ■ "status": "Open",
        ■ "nft_ids": [
          ■ "NTJQYVH-SLSNX-Q6DXVE"
        ],
        ■ "lock_time": 1700706873865968600,
        ■ "usd_equivalence": "10338700",
        ■ "status_detail": "LOCKED"
      }
    ]
  },
  • "error": [ ]
}
```

## getNftQuotes

Get NFT quotes. Creates a new quote for an NFT. This method accepts the quote details (or an array of multiple quotes). In the response, the method returns the identifier of the quotes.

## Responses

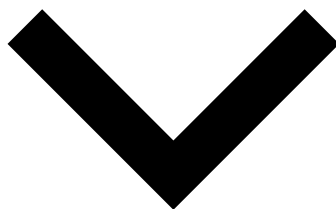


**200**

Response

### Response Schema: application/json

error     Array of  
required strings (error)  
result    object or null



get/public/NftQuotes

Production Server

<https://api.kraken.com/0/public/NftQuotes>

## Request samples

- cURL



- Python

Copy

```
curl "https://api.kraken.com/0/public/NftQuotes?nft_id%5B0%5D=NT4GUCU-SIJE"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

```
{
  "error": [ ],
  "result": {
    "NT4EFB0-OWGI5-QL07AG": [
      {
        "quote_id": "QNSFZED-QWKVB-GLI227",
        "currency": "ETH",
        "amount": "0.0420000000",
        "expire_time": null,
        "has_offer": false
      }
    ]
  }
}
```

# Account Data

## Get Account Balance

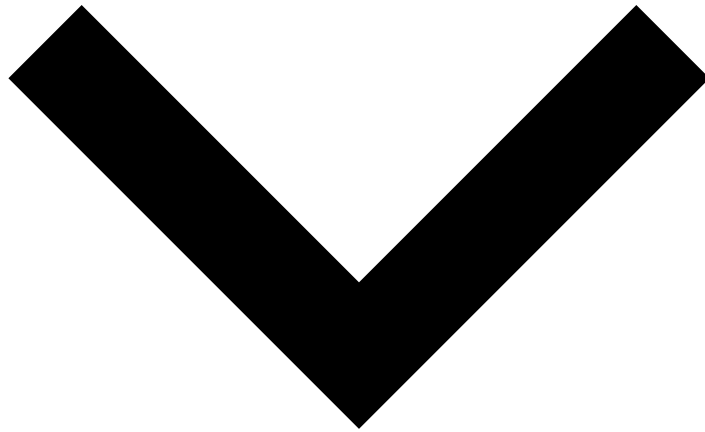
Retrieve all cash balances, net of pending withdrawals.

**Note on Staking/Earn assets:** We have begun to migrate assets from our legacy Staking system over to a new Earn system. As such, the following assets may appear in your balances and ledger. Please see our [Support article](#) for more details.

- .B, which represents balances in new yield-bearing products, similar to .S (staked) and .M (opt-in rewards) balances
- .F, which represents balances earning automatically in Kraken Rewards

**API Key Permissions Required:** Funds permissions - Query

## Authorizations:



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

Responses



200

Account balances retrieved.

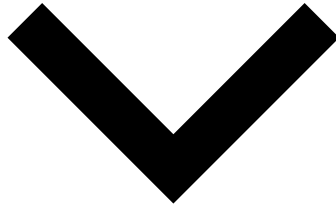
Response Schema: application/json



object (AccountBalance)  
Account Balance

result  
error

Array of strings (error)



post/private/Balance

Production Server

https://api.kraken.com/0/private/Balance

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/Balance" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "ZUSD": "171288.6158",
  - "ZEUR": "504861.8946",
  - "XXBT": "1011.1908877900",
  - "XETH": "818.5500000000",}

```

    ◦ "USDT": "500000.00000000",
    ◦ "DAI": "9999.9999999999",
    ◦ "DOT": "2.5000000000",
    ◦ "ETH2.S": "198.3970800000",
    ◦ "ETH2": "2.5885574330",
    ◦ "USD.M": "1213029.2780"
  }
}

```

## Get Extended Balance

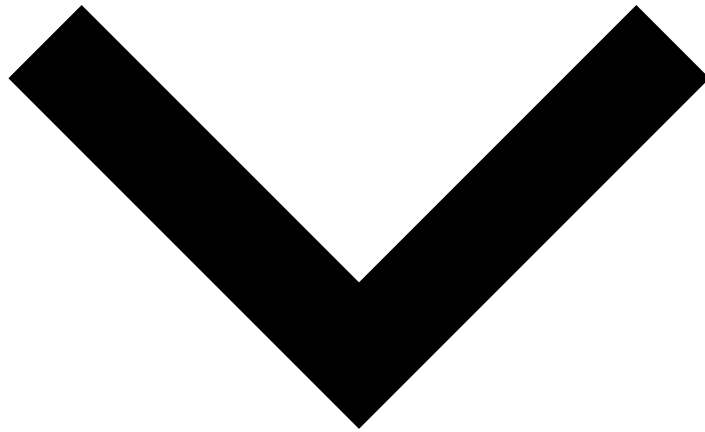
Retrieve all extended account balances, including credits and held amounts. Balance available for trading is calculated as:  $\text{available balance} = \text{balance} + \text{credit} - \text{credit\_used} - \text{hold\_trade}$

**Note on Staking/Earn assets:** We have begun to migrate assets from our legacy Staking system over to a new Earn system. As such, the following assets may appear in your balances and ledger. Please see our [Support article](#) for more details.

- .B, which represents balances in new yield-bearing products, similar to .S (staked) and .M (opt-in rewards) balances
- .F, which represents balances earning automatically in Kraken Rewards

**API Key Permissions Required:** Funds permissions - Query

## Authorizations:



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

Responses



200

Extended account balances retrieved.

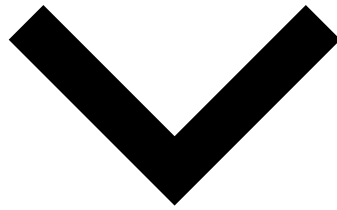
Response Schema: application/json



object (ExtendedBalance)  
Extended Balance

result  
error

Array of strings (error)



post/private/BalanceEx

Production Server

https://api.kraken.com/0/private/BalanceEx

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/BalanceEx" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "ZUSD": {
    - "balance": 25435.21,
    - "hold\_trade": 8249.76



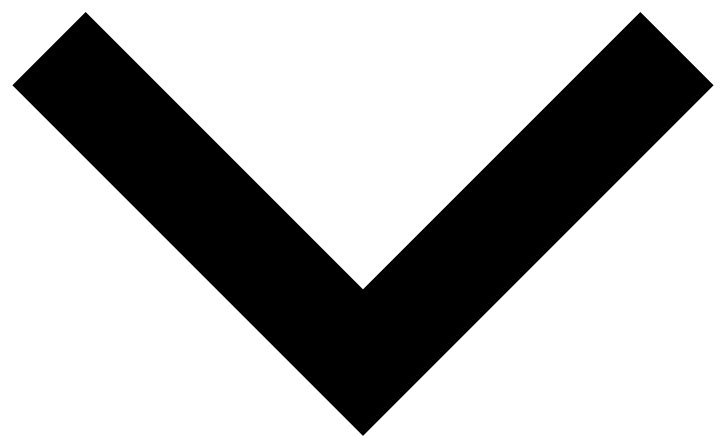
```
    ◦ "XXBT": {  
      ■ "balance": 1.2435,  
      ■ "hold_trade": 0.8423  
    }  
  }  
}
```

## Get Trade Balance

Retrieve a summary of collateral balances, margin position valuations, equity and margin level.

**API Key Permissions Required:** Orders and trades - Query open orders & trades

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required Nonce used in construction of API-Sign header	
asset	string
	Default: "ZUSD"
Base asset used to determine balance	

Responses



200

Trade balances retrieved.

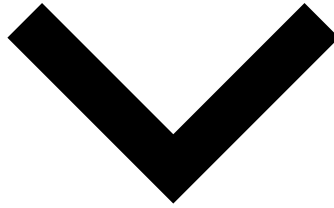
Response Schema: application/json



object (AccountBalance)  
Account Balance

result  
error

Array of strings (error)



post/private/TradeBalance

Production Server

<https://api.kraken.com/0/private/TradeBalance>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/TradeBalance" \  
  -H 'API-Key: <YOUR-API-KEY>' \  
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \  
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \  
  --data-urlencode "nonce=<YOUR-NONCE>&asset=ZUSD"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "eb": "1101.3425",
  - "tb": "392.2264",
  - "m": "7.0354",
  - "n": "-10.0232",}

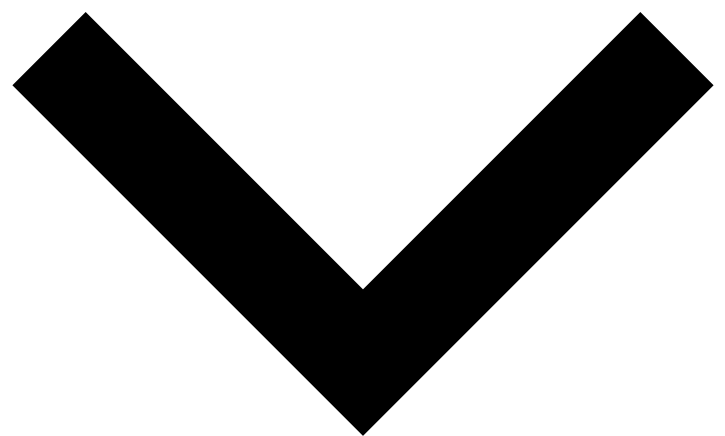
```
    ◦ "c": "21.1063",  
    ◦ "v": "31.1297",  
    ◦ "e": "382.2032",  
    ◦ "mf": "375.1678",  
    ◦ "ml": "5432.57"  
  }  
}
```

## Get Open Orders

Retrieve information about currently open orders.

**API Key Permissions Required:** Orders and trades - Query open orders & trades

**Authorizations:**



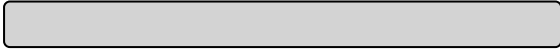
(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
trades	boolean Default: false Whether or not to include trades related to position in output

integer <int32>  
userref Restrict results to given user reference id

## Responses



**200**

Open orders info retrieved.

### Response Schema: application/json



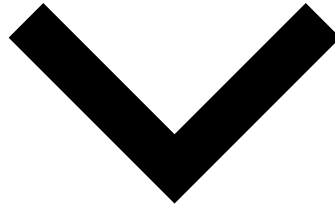
object (OpenOrders)

Open Orders

result

error

Array of  
strings (error)



post/private/OpenOrders

Production Server

<https://api.kraken.com/0/private/OpenOrders>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/OpenOrders" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>&trades=true"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],



```
• "result": [REDACTED]{
  ◦ "open": [REDACTED]{
    ■ "OQCLML-BW3P3-BUCMWZ": [REDACTED]
    {
      ■ "refid": "None",
      ■ "userref": 0,
      ■ "status": "open",
      ■ "opentm": 1688666559.8974,
      ■ "starttm": 0,
      ■ "expiretm": 0,
      ■ "descr": [REDACTED]{
        ■ "pair": "XBTUSD",
        ■ "type": "buy",
        ■ "ordertype": "limit",
        ■ "price": "30010.0",
        ■ "price2": "0",
        ■ "leverage": "none",
        ■ "order": "buy 1.25000000 XBTUSD @ limit 30010.0",
        ■ "close": ""
      },
      ■ "vol": "1.25000000",
      ■ "vol_exec": "0.37500000",
      ■ "cost": "11253.7",
      ■ "fee": "0.00000",
      ■ "price": "30010.0",
      ■ "stopprice": "0.00000",
      ■ "limitprice": "0.00000",
      ■ "misc": "",
      ■ "oflags": "fcio",
      ■ "trades": [REDACTED][
        ■ "TCCCTY-WE206-P3NB37"
      ]
    },
    ■ "OB5VMB-B4U2U-DK2WRW": [REDACTED]
    {
      ■ "refid": "None",
      ■ "userref": 45326,
      ■ "status": "open",
      ■ "opentm": 1688665899.5699,
      ■ "starttm": 0,
      ■ "expiretm": 0,
      ■ "descr": [REDACTED]{
        ■ "pair": "XBTUSD",
        ■ "type": "buy",
        ■ "ordertype": "limit",
        ■ "price": "14500.0",
        ■ "price2": "0",
```

```

        ■ "leverage": "5:1",
        ■ "order": "buy 0.27500000 XBTUSD @ limit
          14500.0 with 5:1 leverage",
        ■ "close": ""
      },
      ■ "vol": "0.27500000",
      ■ "vol_exec": "0.00000000",
      ■ "cost": "0.00000",
      ■ "fee": "0.00000",
      ■ "price": "0.00000",
      ■ "stopprice": "0.00000",
      ■ "limitprice": "0.00000",
      ■ "misc": "",
      ■ "oflags": "fciq"
    }
  }
}

```

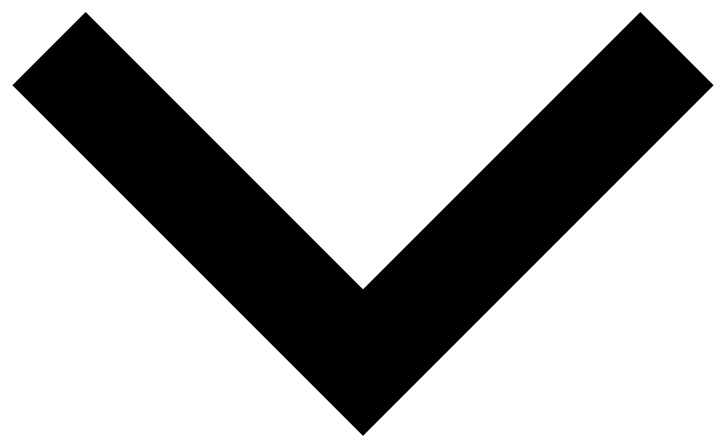
## Get Closed Orders

Retrieve information about orders that have been closed (filled or cancelled). 50 results are returned at a time, the most recent by default.

**Note:** If an order's tx ID is given for start or end time, the order's opening time (opentm) is used

**API Key Permissions Required:** Orders and trades - Query closed orders & trades

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
	boolean
	Default: false
trades	Whether or not to include trades related to position in output
userref	integer <int32>

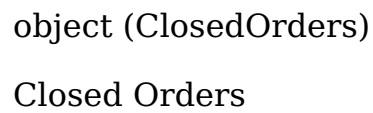
	Restrict results to given user reference id
	integer
start	Starting unix timestamp or order tx ID of results (exclusive)
	integer
end	Ending unix timestamp or order tx ID of results (inclusive)
	integer
ofs	Result offset for pagination
	string Default: "both"
closetime	Enum: "open" "close" "both"
	Which time to use to search
	boolean Default: true
consolidate_taker	Whether or not to consolidate trades by individual taker trades

## Responses



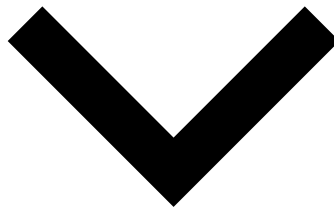
**200**

Closed orders info retrieved.



error

\_\_\_\_\_



<https://api.kraken.com/0/private/ClosedOrders>

- cURL
- Python

```
curl -X "POST" "https://api.kraken.com/0/private/ClosedOrders" \
-H 'API-Key: <YOUR-API-KEY>' \
-H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
```

```
-H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
--data-urlencode "nonce=<YOUR-NONCE>&trades=true"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
{	

```
• "error": [ ],
• "result": {
  ◦ "closed": {
    ■ "037652-RJWRT-IM0740": {
      {
        ■ "refid": "None",
        ■ "userref": 1,
        ■ "status": "canceled",
        ■ "reason": "User requested",
        ■ "opentm": 1688148493.7708,
        ■ "closetm": 1688148610.0482,
        ■ "starttm": 0,
        ■ "expiretm": 0,
        ■ "descr": {
          ■ "pair": "XBTGBP",
          ■ "type": "buy",
          ■ "ordertype": "stop-loss-limit",
          ■ "price": "23667.0",
          ■ "price2": "0",
          ■ "leverage": "none",
          ■ "order": "buy 0.00100000 XBTGBP @ limit
            23667.0",
          ■ "close": ""
        },
        ■ "vol": "0.00100000",
        ■ "vol_exec": "0.00000000",
        ■ "cost": "0.00000",
        ■ "fee": "0.00000",
        ■ "price": "0.00000",
        ■ "stopprice": "0.00000",
        ■ "limitprice": "0.00000",
        ■ "misc": "",
        ■ "oflags": "fcik",
        ■ "trigger": "index"
      },
    },
  },
}
```

```

    ■ "06YDQ5-LOMWU-37YKEE": [REDACTED]
    {
      ■ "refid": "None",
      ■ "userref": 36493663,
      ■ "status": "canceled",
      ■ "reason": "User requested",
      ■ "opentm": 1688148493.7708,
      ■ "closetm": 1688148610.0477,
      ■ "starttm": 0,
      ■ "expiretm": 0,
      ■ "descr": [REDACTED]{
        ■ "pair": "XBTEUR",
        ■ "type": "buy",
        ■ "ordertype": "take-profit-limit",
        ■ "price": "27743.0",
        ■ "price2": "0",
        ■ "leverage": "none",
        ■ "order": "buy 0.00100000 XBTEUR @ limit 27743.0",
        ■ "close": ""
      },
      ■ "vol": "0.00100000",
      ■ "vol_exec": "0.00000000",
      ■ "cost": "0.00000",
      ■ "fee": "0.00000",
      ■ "price": "0.00000",
      ■ "stopprice": "0.00000",
      ■ "limitprice": "0.00000",
      ■ "misc": "",
      ■ "oflags": "fciq",
      ■ "trigger": "index"
    }
  },
  ○ "count": 2
}
}

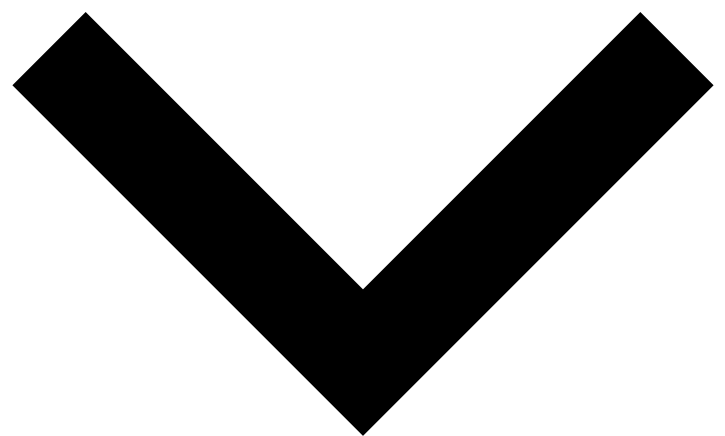
```

## Query Orders Info

Retrieve information about specific orders.

**API Key Permissions Required:** Orders and trades - Query open orders & trades or Orders and trades - Query closed orders & trades, depending on status of order

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
	boolean
	Default: false
trades	Whether or not to include trades related to position in output
userref	integer <int32>



	Restrict results to given user reference id
	string
txid required	Comma delimited list of transaction IDs to query info about (50 maximum)
	boolean Default: true
consolidate_taker	Whether or not to consolidate trades by individual taker trades

## Responses

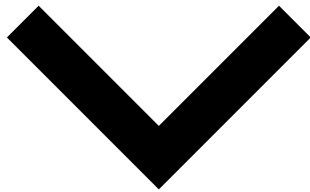


**200**

Orders info retrieved.

**Response Schema: application/json**

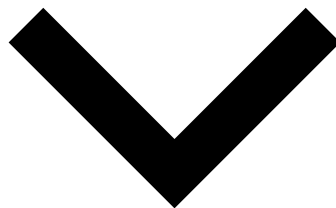
object



result

error

Array of  
strings (error)



post/private/QueryOrders

Production Server

<https://api.kraken.com/0/private/QueryOrders>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/QueryOrders" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>&trades=true"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
	{

- "error": [ ],
  - "result": {
    - "OBCMZD-JIEE7-77TH3F": {
      - "refid": "None",
      - "userref": 0,
      - "status": "closed",
      - "reason": null,
      - "opentm": 1688665496.7808,
      - "closetm": 1688665499.1922,
      - "starttm": 0,
      - "expiretm": 0,
      - "descr": {
        - "pair": "XBTUSD",
        - "type": "buy",
        - "ordertype": "stop-loss-limit",
        - "price": "27500.0",
        - "price2": "0",
        - "leverage": "none",
        - "order": "buy 1.25000000 XBTUSD @ limit 27500.0",
        - "close": ""
    - "vol": "1.25000000",
    - "vol\_exec": "1.25000000",
    - "cost": "27526.2",
    - "fee": "26.2",
    - "price": "27500.0",
    - "stopprice": "0.00000",
    - "limitprice": "0.00000",
    - "misc": "",
    - "oflags": "fcik",
    - "trigger": "index",
    - "trades": [
      - "TZX2WP-XSE0P-FP7WYR"
- "OMMDB2-FSB6Z-7W3HP0": {
  - "refid": "None",

```

    ■ "userref": 0,
    ■ "status": "closed",
    ■ "reason": null,
    ■ "opentm": 1688592012.2317,
    ■ "closetm": 1688592012.2335,
    ■ "starttm": 0,
    ■ "expiretm": 0,
    ■ "descr": {
        ■ "pair": "XBTUSD",
        ■ "type": "sell",
        ■ "ordertype": "market",
        ■ "price": "0",
        ■ "price2": "0",
        ■ "leverage": "none",
        ■ "order": "sell 0.25000000 XBTUSD @ market",
        ■ "close": ""
    },
    ■ "vol": "0.25000000",
    ■ "vol_exec": "0.25000000",
    ■ "cost": "7500.0",
    ■ "fee": "7.5",
    ■ "price": "30000.0",
    ■ "stopprice": "0.00000",
    ■ "limitprice": "0.00000",
    ■ "misc": "",
    ■ "oflags": "fcib",
    ■ "trades": [
        ■ "TJUW2K-FLX2N-AR2FLU"
    ]
  }
}
}

```

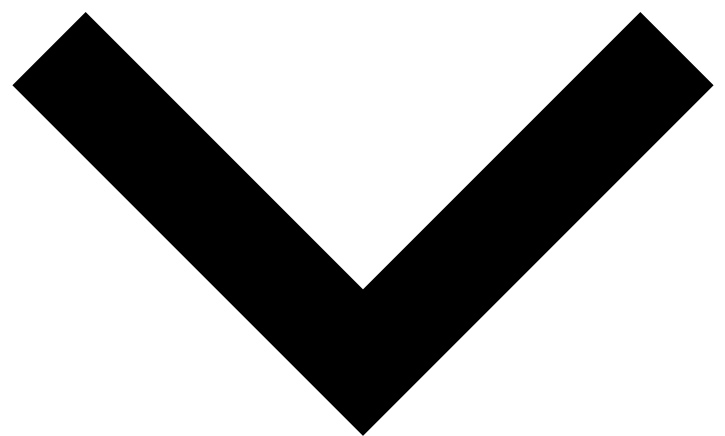
## Get Trades History

Retrieve information about trades/fills. 50 results are returned at a time, the most recent by default.

- Unless otherwise stated, costs, fees, prices, and volumes are specified with the precision for the asset pair (`pair_decimals` and `lot_decimals`), not the individual assets' precision (decimals).

**API Key Permissions Required:** Orders and trades - Query closed orders & trades

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
type	string Default: "all" Enum: "all" "any position" "closed position" "closing position" "no position"
	Type of trade
	boolean

	Default: false
trades	Whether or not to include trades related to position in output
	integer
start	Starting unix timestamp or trade tx ID of results (exclusive)
	integer
end	Ending unix timestamp or trade tx ID of results (inclusive)
	integer
ofs	Result offset for pagination
	boolean Default: true
consolidate_taker	Whether or not to consolidate trades by individual taker trades
	boolean Default: false
ledgers	Whether or not to include related ledger ids for given trade Note that setting this to true will slow request performance

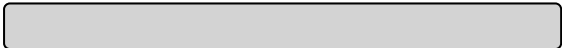
Responses



200

Trade history retrieved.

Response Schema: application/json



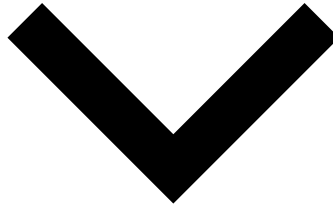
object (TradeHistory)

Trade History

result

error

Array of  
strings (error)



post/private/TradesHistory

Production Server

<https://api.kraken.com/0/private/TradesHistory>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/TradesHistory" \  
  -H 'API-Key: <YOUR-API-KEY>' \  
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \  
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \  
  --data-urlencode "nonce=<YOUR-NONCE>&trades=true"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],



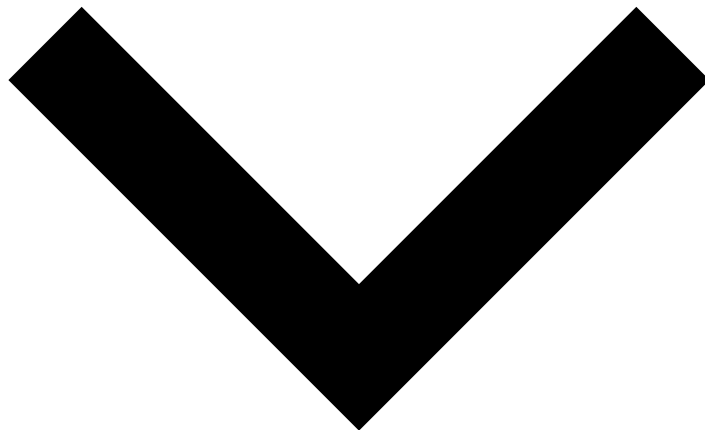
```
• "result": [REDACTED]{
  ◦ "trades": [REDACTED]{
    ■ "THVRQM-33VKH-UCI7BS": [REDACTED]
    {
      ■ "ordertxid": "0QCLML-BW3P3-BUCMWZ",
      ■ "postxid": "TKH2SE-M7IF5-CFI7LT",
      ■ "pair": "XXBTZUSD",
      ■ "time": 1688667796.8802,
      ■ "type": "buy",
      ■ "ordertype": "limit",
      ■ "price": "30010.00000",
      ■ "cost": "600.20000",
      ■ "fee": "0.00000",
      ■ "vol": "0.02000000",
      ■ "margin": "0.00000",
      ■ "misc": "",
      ■ "ledgers": [REDACTED][
        ■ "L4JP5S-GWFOA-EANKPU",
        ■ "LPHHII-KGAW-E-Q2FR5R"
      ],
      ■ "trade_id": 40274859,
      ■ "maker": true
    },
    ■ "TCWJEG-FL4SZ-3FKGH6": [REDACTED]
    {
      ■ "ordertxid": "0QCLML-BW3P3-BUCMWZ",
      ■ "postxid": "TKH2SE-M7IF5-CFI7LT",
      ■ "pair": "XXBTZUSD",
      ■ "time": 1688667769.6396,
      ■ "type": "buy",
      ■ "ordertype": "limit",
      ■ "price": "30010.00000",
      ■ "cost": "300.10000",
      ■ "fee": "0.00000",
      ■ "vol": "0.01000000",
      ■ "margin": "0.00000",
      ■ "misc": "",
      ■ "ledgers": [REDACTED][
        ■ "L2KP1S-GFFIA-EDNHPU",
        ■ "LPSHAH-KQAVE-Q4FR9L"
      ],
      ■ "trade_id": 39482674,
      ■ "maker": true
    }
  }
}
}
```

# Query Trades Info

Retrieve information about specific trades/fills.

**API Key Permissions Required:** Orders and trades - Query closed orders & trades

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema:** application/x-www-form-urlencoded

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

string

txid  
required Comma delimited list of transaction IDs to query info about (20  
maximum)

boolean  
Default: false

trades Whether or not to include trades related to position in output

## Responses



200

Trades info retrieved.

### Response Schema: application/json

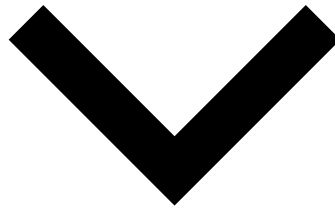


object

Trade info

result  
error

Array of strings (error) [ items ]



post/private/QueryTrades

Production Server

<https://api.kraken.com/0/private/QueryTrades>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/QueryTrades" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>&txid=TRWCIF-3MJWU-5DYJG5,TNGJFU-
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "THVRQM-33VKH-UCI7BS": {
    - "ordertxid": "OQCLML-BW3P3-BUCMWZ",
    - "postxid": "TKH2SE-M7IF5-CFI7LT",
    - "pair": "XXBTZUSD",

```

      ■ "time": 1688667796.8802,
      ■ "type": "buy",
      ■ "ordertype": "limit",
      ■ "price": "30010.00000",
      ■ "cost": "600.20000",
      ■ "fee": "0.00000",
      ■ "vol": "0.02000000",
      ■ "margin": "0.00000",
      ■ "misc": "",
      ■ "trade_id": 93748276,
      ■ "maker": true
    },
    ○ "TTEUX3-HDAAA-RC2RU0": {
      ■ "ordertxid": "OH76V0-UKWAD-PSBDX6",
      ■ "postxid": "TKH2SE-M7IF5-CFI7LT",
      ■ "pair": "XXBTZEUR",
      ■ "time": 1688082549.3138,
      ■ "type": "buy",
      ■ "ordertype": "limit",
      ■ "price": "27732.00000",
      ■ "cost": "0.20020",
      ■ "fee": "0.00000",
      ■ "vol": "0.00020000",
      ■ "margin": "0.00000",
      ■ "misc": "",
      ■ "trade_id": 74625834,
      ■ "maker": true
    }
  }
}

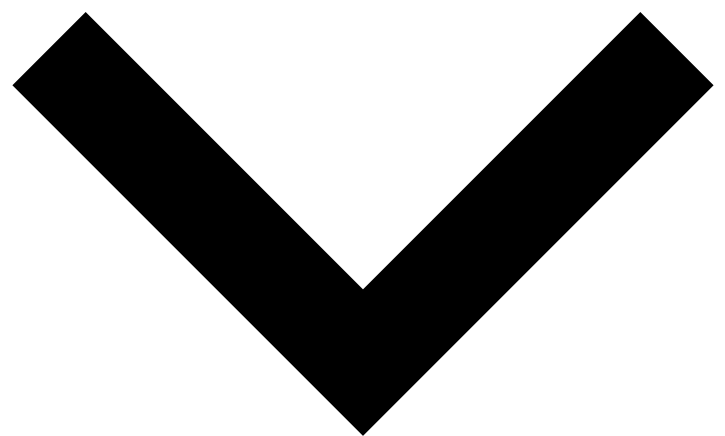
```

## Get Open Positions

Get information about open margin positions.

**API Key Permissions Required:** Orders and trades - Query open orders & trades

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
	string
txid	Comma delimited list of txids to limit output to

	boolean
	Default: false
docalcs	Whether to include P&L calculations
	string
	Value: "market"
consolidation	Consolidate positions by market/pair

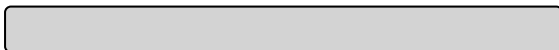
## Responses



**200**

Open positions info retrieved.

### Response Schema: application/json



object

result

error

Array of  
strings (error)



post/private/OpenPositions

Production Server

<https://api.kraken.com/0/private/OpenPositions>

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/OpenPositions', {
    "nonce": str(int(1000*time.time())),
    "docalcs": True
}, api_key, api_sec)
```



```
print(resp.json())
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
{	

- "error": [ ],
- "result": {
  - "TF5GV0-T7ZZ2-6NBKBI": {
    - "ordertxid": "OLWNFG-LLH4R-D6SFFP",
    - "posstatus": "open",
    - "pair": "XXBTZUSD",
    - "time": 1605280097.8294,
    - "type": "buy",
    - "ordertype": "limit",
    - "cost": "104610.52842",
    - "fee": "289.06565",
    - "vol": "8.82412861",
    - "vol\_closed": "0.20200000",
    - "margin": "20922.10568",
    - "value": "258797.5",
    - "net": "+154186.9728",
    - "terms": "0.0100% per 4 hours",
    - "rollovertm": "1616672637",
    - "misc": "",
    - "oflags": ""
  - },
  - "T24DOR-TAFLM-ID3NYP": {
    - "ordertxid": "OIVYGZ-M5EHU-ZRUQXX",
    - "posstatus": "open",
    - "pair": "XXBTZUSD",
    - "time": 1607943827.3172,
    - "type": "buy",
    - "ordertype": "limit",
    - "cost": "145756.76856",
    - "fee": "335.24057",
    - "vol": "8.00000000",
    - "vol\_closed": "0.00000000",
    - "margin": "29151.35371",
    - "value": "240124.0",
    - "net": "+94367.2314",
    - "terms": "0.0100% per 4 hours",

```

    ■ "rollover_tm": "1616672637",
    ■ "misc": "",
    ■ "oflags": ""
  },
  ○ "TYMRFG-URRG5-2ZTQSD": [REDACTED]{
    ■ "ordertxid": "OF5WFH-V57DP-QANDAC",
    ■ "posstatus": "open",
    ■ "pair": "XXBTZUSD",
    ■ "time": 1610448039.8374,
    ■ "type": "buy",
    ■ "ordertype": "limit",
    ■ "cost": "0.00240",
    ■ "fee": "0.00000",
    ■ "vol": "0.00000010",
    ■ "vol_closed": "0.00000000",
    ■ "margin": "0.00048",
    ■ "value": "0",
    ■ "net": "+0.0006",
    ■ "terms": "0.0100% per 4 hours",
    ■ "rollover_tm": "1616672637",
    ■ "misc": "",
    ■ "oflags": ""
  },
  ○ "TAFGBN-TZNFC-7CCYIM": [REDACTED]{
    ■ "ordertxid": "OF5WFH-V57DP-QANDAC",
    ■ "posstatus": "open",
    ■ "pair": "XXBTZUSD",
    ■ "time": 1610448039.8448,
    ■ "type": "buy",
    ■ "ordertype": "limit",
    ■ "cost": "2.40000",
    ■ "fee": "0.00264",
    ■ "vol": "0.00010000",
    ■ "vol_closed": "0.00000000",
    ■ "margin": "0.48000",
    ■ "value": "3.0",
    ■ "net": "+0.6015",
    ■ "terms": "0.0100% per 4 hours",
    ■ "rollover_tm": "1616672637",
    ■ "misc": "",
    ■ "oflags": ""
  },
  ○ "T405L3-4VGS4-IRU2UL": [REDACTED]{
    ■ "ordertxid": "OF5WFH-V57DP-QANDAC",
    ■ "posstatus": "open",
    ■ "pair": "XXBTZUSD",
    ■ "time": 1610448040.7722,
    ■ "type": "buy",
    ■ "ordertype": "limit",
    ■ "cost": "21.59760",

```

```

    ■ "fee": "0.02376",
    ■ "vol": "0.00089990",
    ■ "vol_closed": "0.00000000",
    ■ "margin": "4.31952",
    ■ "value": "27.0",
    ■ "net": "+5.4133",
    ■ "terms": "0.0100% per 4 hours",
    ■ "rollovertm": "1616672637",
    ■ "misc": "",
    ■ "oflags": ""
  }
}
}

```

## Get Ledgers Info

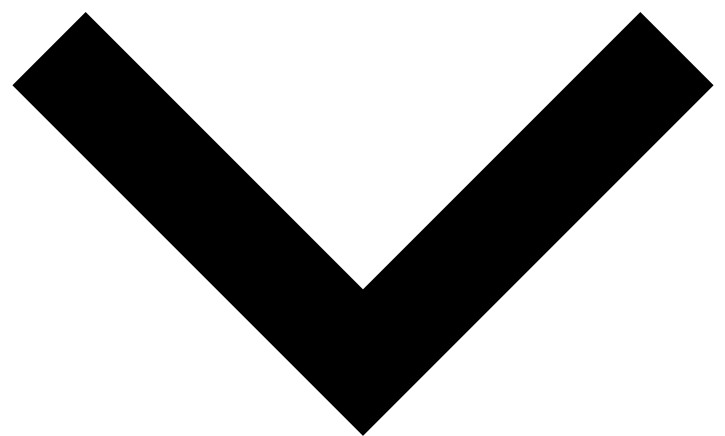
Retrieve information about ledger entries. 50 results are returned at a time, the most recent by default.

**Note on Staking/Earn assets:** We have begun to migrate assets from our legacy Staking system over to a new Earn system. As such, the following assets may appear in your balances and ledger. Please see our [Support article](#) for more details.

- .B, which represents balances in new yield-bearing products, similar to .S (staked) and .M (opt-in rewards) balances
- .F, which represents balances earning automatically in Kraken Rewards

**API Key Permissions Required:** Data - Query ledger entries

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
asset	string Default: "all" Filter output by asset or comma delimited list of assets
aclass	string Default: "currency"

	Filter output by asset class
type	string Default: "all" Enum: "all" "trade" "deposit" "withdrawal" "transfer" "margin" "adjustment" "rollover" "credit" "settled" "staking" "dividend" "sale" "nft_rebate"
	Type of ledger to retrieve
start	integer Starting unix timestamp or ledger ID of results (exclusive)
end	integer Ending unix timestamp or ledger ID of results (inclusive)
ofs	integer Result offset for pagination
	boolean Default: false
without_count	If true, does not retrieve count of ledger entries. Request can be noticeably faster for users with many ledger entries as this avoids an extra database query.

## Responses



**200**

Ledgers info retrieved.

## Response Schema: application/json



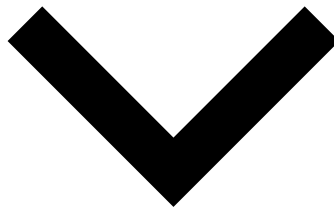
object (LedgersInfo)

Ledgers Info

result

error

Array of  
strings (error)



post/private/Ledgers

Production Server

<https://api.kraken.com/0/private/Ledgers>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/Ledgers" \  
  -H 'API-Key: <YOUR-API-KEY>' \  
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \  
  -d '{  
    "type": "order_cancel",  
    "order_id": "1234567890",  
    "cancel_after": 10  
  }'
```

```
-H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
--data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
{	

```
• "error": [ ],
• "result": {
  ◦ "ledger": {
    ■ "L4UESK-KG3EQ-UF04T5": {
      {
        ■ "refid": "TJKLXF-PGMUI-4NTLXU",
        ■ "time": 1688464484.1787,
        ■ "type": "trade",
        ■ "subtype": "",
        ■ "aclass": "currency",
        ■ "asset": "ZGBP",
        ■ "amount": "-24.5000",
        ■ "fee": "0.0490",
        ■ "balance": "459567.9171"
      },
    ■ "LMKZCZ-Z3GVL-CXKK4H": {
      {
        ■ "refid": "TBZIP2-F6Q0U-TMB6FY",
        ■ "time": 1688444262.8888,
        ■ "type": "trade",
        ■ "subtype": "",
        ■ "aclass": "currency",
        ■ "asset": "ZUSD",
        ■ "amount": "0.9852",
        ■ "fee": "0.0010",
        ■ "balance": "52732.1132"
      }
    }
  },
  ◦ "count": 2
}
}
```

# Query Ledgers

Retrieve information about specific ledger entries.

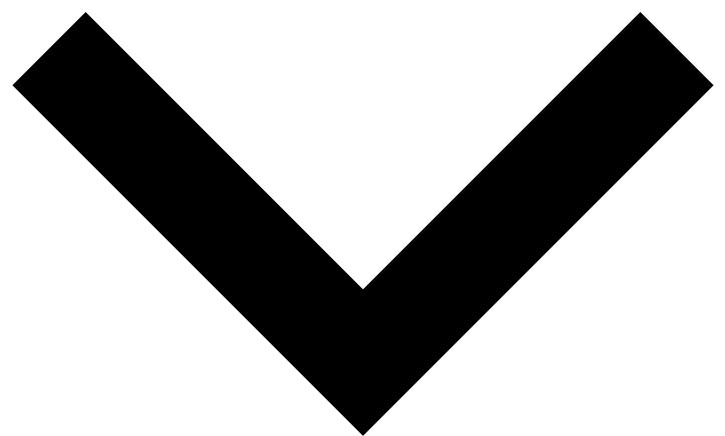
**Note on Staking/Earn assets:** We have begun to migrate assets from our legacy Staking system over to a new Earn system. As such, the following assets may appear in your balances and ledger. Please see our [Support article](#) for more details.

- .B, which represents balances in new yield-bearing products, similar to .S (staked) and .M (opt-in rewards) balances
- .F, which represents balances earning automatically in Kraken Rewards

**API Key Permissions Required:** Data - Query ledger entries



**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

	integer <int32> (nonce)
nonce	
required	Nonce used in construction of API-Sign header
	string
id	
required	Comma delimited list of ledger IDs to query info about (20 maximum)
	boolean
trades	Default: false

Whether or not to include trades related to position in output

## Responses



**200**

Ledgers info retrieved.

## Response Schema: application/json

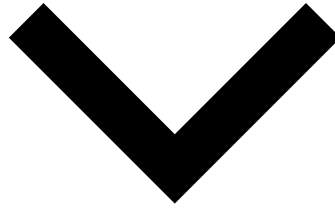


object

result

error

Array of  
strings (error)



post/private/QueryLedgers

Production Server

<https://api.kraken.com/0/private/QueryLedgers>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/QueryLedgers" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>&id=LGBRJU-SQZ4L-5HLS3C,L3S26P-BH"
```

## Response samples

- 200

Content type  
application/json

Copy Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "L4UESK-KG3EQ-UF04T5": {
    - "refid": "TJKLXF-PGMUI-4NTLXU",
    - "time": 1688464484.1787,
    - "type": "trade",

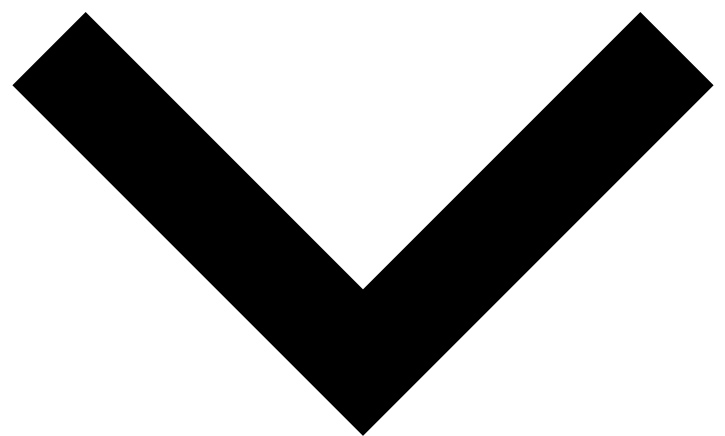
```
        ■ "subtype": "",
        ■ "aclass": "currency",
        ■ "asset": "ZGBP",
        ■ "amount": "-24.5000",
        ■ "fee": "0.0490",
        ■ "balance": "459567.9171"
    }
}
```

## Get Trade Volume

Returns 30 day USD trading volume and resulting fee schedule for any asset pair(s) provided. Fees will not be included if pair is not specified as Kraken fees differ by asset pair. Note: If an asset pair is on a maker/taker fee schedule, the taker side is given in fees and maker side in fees\_maker. For pairs not on maker/taker, they will only be given in fees.

**API Key Permissions Required:** Funds permissions - Query

**Authorizations:**

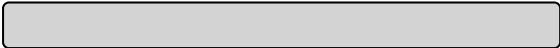


(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

- integer <int32> (nonce)  
nonce  
required Nonce used in construction of API - Sign header
- string
- pair      Comma delimited list of asset pairs to get fee info on (optional, but required if any fee info is desired)

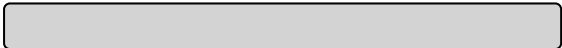
Responses



200

Trade Volume retrieved.

Response Schema: application/json



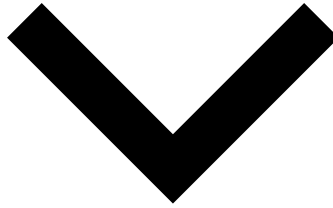
object (TradeVolume)

Trade Volume

result

error

Array of  
strings (error)



post/private/TradeVolume

Production Server

<https://api.kraken.com/0/private/TradeVolume>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/TradeVolume" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>&pair=XETCXETH"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "currency": "ZUSD",
  - "volume": "200709587.4223",}

```

    "fees": {
      "XXBTZUSD": {
        "fee": "0.1000",
        "minfee": "0.1000",
        "maxfee": "0.2600",
        "nextfee": null,
        "nextvolume": null,
        "tiervolume": "10000000.0000"
      }
    },
    "fees_maker": {
      "XXBTZUSD": {
        "fee": "0.0000",
        "minfee": "0.0000",
        "maxfee": "0.1600",
        "nextfee": null,
        "nextvolume": null,
        "tiervolume": "10000000.0000"
      }
    }
  }
}

```

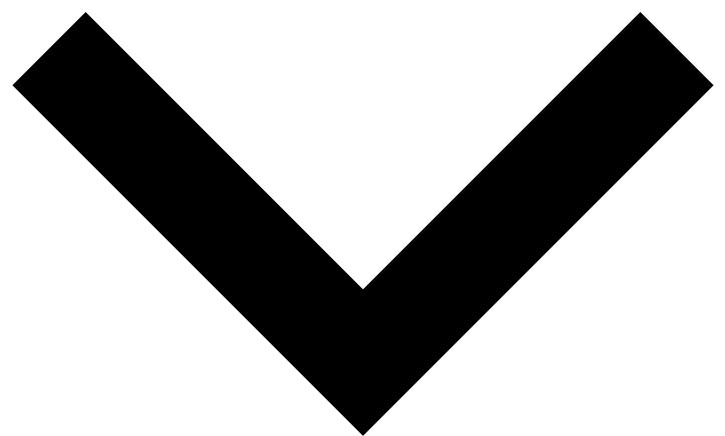
## Request Export Report

Request export of trades or ledgers.

**API Key Permissions Required:** Data - Export data



**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
report	string
required	Enum: "trades" "ledgers"
	Type of data to export
format	string
	Default: "CSV"
	Enum: "CSV" "TSV"

	File format to export
description	string
required	Description for the export
	string
	Default: "all"
	Comma-delimited list of fields to include
fields	<ul style="list-style-type: none"> <li>• trades: ordertxid, time, ordertype, price, cost, fee, vol, margin, m</li> <li>ledgers</li> <li>• ledgers: refid, time, type, subtype, aclass, asset, amount, fee, bal</li> <li>wallet</li> </ul>
	integer
starttm	UNIX timestamp for report start time (default 1st of the current month)
	integer
endtm	UNIX timestamp for report end time (default now)

## Responses

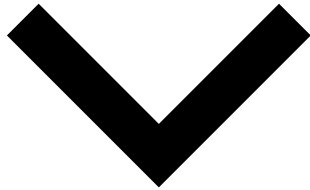


**200**

Export request made

**Response Schema: application/json**

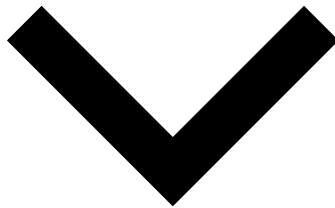
object



result

error

Array of  
strings (error)



post/private/AddExport

Production Server

<https://api.kraken.com/0/private/AddExport>

## Request samples

- Python

```
import time
import os
import requests
```

```
# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
```

```

api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/AddExport', {
    "nonce": str(int(1000*time.time())),
    "description": "my_trades_1",
    "format": "CSV",
    "report": "trades"
}, api_key, api_sec)

print(resp.json())

```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	

```

{
  "error": [ ],
  "result": {
    "id": "TCJA"
  }
}

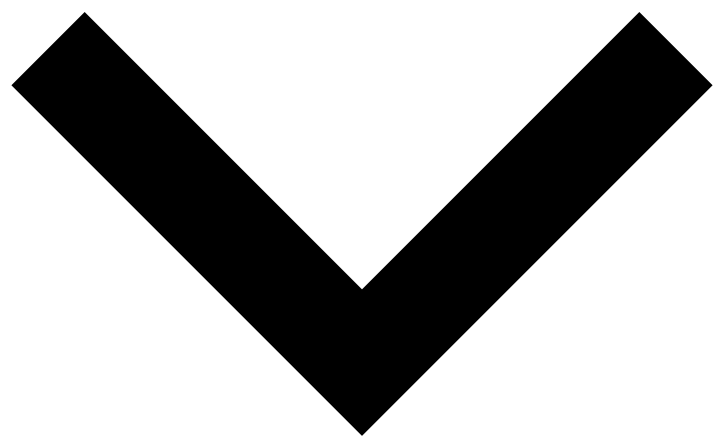
```

## Get Export Report Status

Get status of requested data exports.

**API Key Permissions Required:** Data - Export data

**Authorizations:**

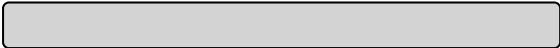


(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

	integer <int32> (nonce)
nonce	
required	Nonce used in construction of API-Sign header
	string
report	Enum: "trades" "ledgers"
required	Type of reports to inquire about

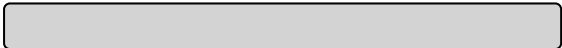
Responses



200

Export status retrieved

Response Schema: application/json

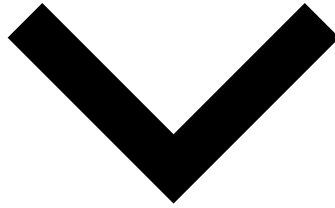


Array of objects

result

error

Array of  
strings (error)



post/private/ExportStatus

Production Server

<https://api.kraken.com/0/private/ExportStatus>

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/ExportStatus', {
    "nonce": str(int(1000*time.time())),
    "report": "trades"
}, api_key, api_sec)
```

```
print(resp.json())
```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	
	{

- "error": [ ],
- "result": [  [  {
  - "id": "VSKC",
  - "descr": "my\_trades\_1",
  - "format": "CSV",
  - "report": "trades",
  - "subtype": "all",
  - "status": "Processed",
  - "flags": "0",
  - "fields": "all",
  - "createdtm": "1688669085",
  - "expiretm": "1688878685",
  - "starttm": "1688669093",
  - "completedtm": "1688669093",
  - "datastarttm": "1683556800",
  - "dataendtm": "1688669085",
  - "aclass": "forex",
  - "asset": "all" },  {
  - "id": "TCJA",
  - "descr": "my\_trades\_1",
  - "format": "CSV",
  - "report": "trades",
  - "subtype": "all",
  - "status": "Processed",
  - "flags": "0",
  - "fields": "all",
  - "createdtm": "1688363637",
  - "expiretm": "1688573237",
  - "starttm": "1688363664",
  - "completedtm": "1688363664",
  - "datastarttm": "1683235200",
  - "dataendtm": "1688363637",
  - "aclass": "forex", } ] ]



```
{
  "asset": "all"
}
```

## Retrieve Data Export

Retrieve a processed data export

**API Key Permissions Required:** Data - Export data

**Authorizations:**



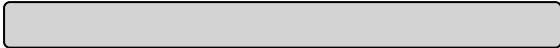
(API-KeyAPI-Sign)

**Request Body schema:** application/x-www-form-urlencoded

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

string  
id  
required Report ID to retrieve

## Responses

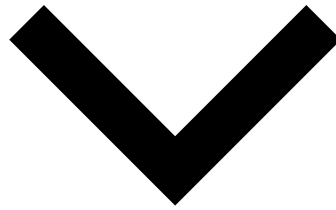


**200**

Data export report retrieved

### Response Schema: application/octet-stream

string <binary>  
report Binary zip archive containing the report



post/private/RetrieveExport

Production Server

<https://api.kraken.com/0/private/RetrieveExport>

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/RetrieveExport', {
    "nonce": str(int(1000*time.time())),
    "id": "TCJA"
}, api_key, api_sec)
```

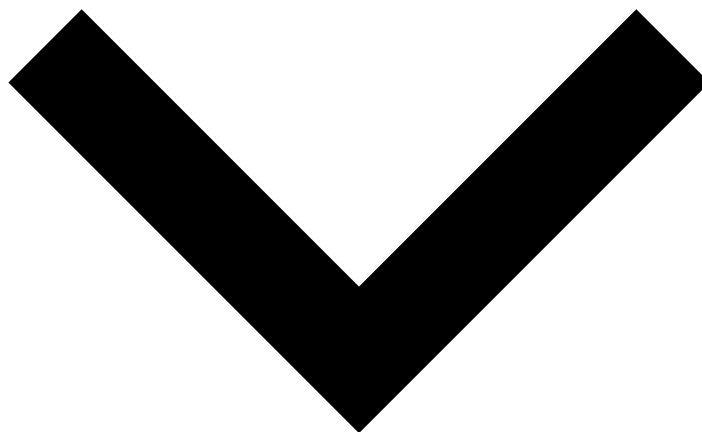
```
# Write export to a new file 'myexport.zip'
target_path = 'myexport.zip'
handle = open(target_path, "wb")
for chunk in resp.iter_content(chunk_size=512):
    if chunk: # filter out keep-alive new chunks
        handle.write(chunk)
handle.close()
```

## Delete Export Report

Delete exported trades/ledgers report

**API Key Permissions Required:** Data - Export data

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

string  
id  
required ID of report to delete or cancel

string  
Enum: "cancel" "delete"  
type  
required delete can only be used for reports that have already been processed. Use cancel for queued or processing reports.

**Responses**

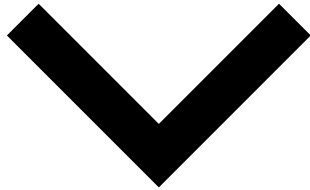


**200**

Export report deleted or cancelled

**Response Schema: application/json**

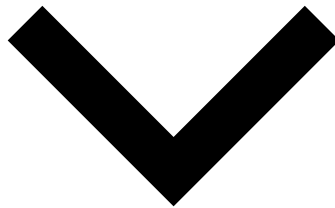
object



result

error

Array of  
strings (error)



post/private/RemoveExport

Production Server

<https://api.kraken.com/0/private/RemoveExport>

## Request samples

- Python

Copy

```
import time
import os
import requests
```

```
# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
```

```

api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/RemoveExport', {
    "nonce": str(int(1000*time.time())),
    "id": "TCJA",
    "type": "delete"
}, api_key, api_sec)

print(resp.json())

```

## Response samples

- 200

Content type  
application/json

Copy	Expand all
Collapse all	

```

{
  • "error": [ ],
  • "result": {
    ◦ "delete": true
  }
}

```

# Spot Trading

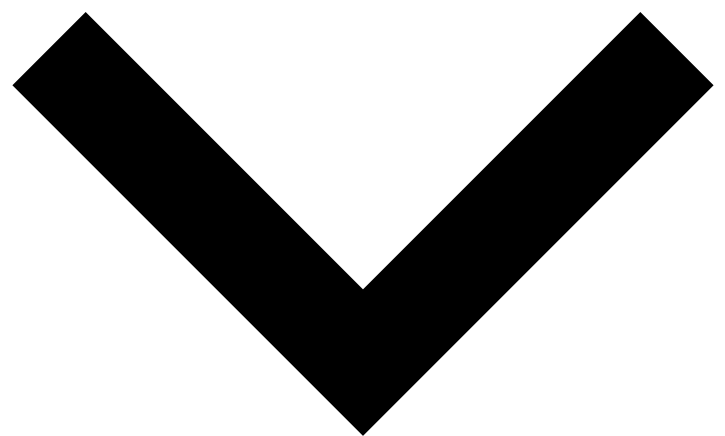
## Add Order

Place a new order.

**Note:** See the [AssetPairs](#) endpoint for details on the available trading pairs, their price and quantity precisions, order minimums, available leverage, etc.

**API Key Permissions Required:** Orders and trades - Create & modify orders

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
	integer <int32>
	User reference id
userref	userref is an optional user-specified integer id that can be associated with any number of orders. Many clients choose a userref corresponding to a unique integer id generated by their systems (e.g. a timestamp). However, because we



don't enforce uniqueness on our side, it can also be used to easily group orders by pair, side, strategy, etc. This allows clients to more readily cancel or query information about orders in a particular group, with fewer API calls by using `userref` instead of our `txid`, where supported.

ordertype required	<p>string (ordertype) Enum: "market" "limit" "stop-loss" "take-profit" "stop-loss-limit" "take-profit-limit" "trailing-stop" "trailing-stop-limit" "settle-position"</p> <p>Order type</p>
type required	<p>string Enum: "buy" "sell"</p> <p>Order direction (buy/sell)</p>
volume required	<p>string</p> <p>Order quantity in terms of the base asset</p> <p>Note: Volume can be specified as 0 for closing margin orders to automatically fill the requisite quantity.</p>
displayvol	<p>string</p> <p>Used to create an iceberg order, this is the visible order quantity in terms of the base asset. The rest of the order will be hidden, although the full volume can be filled at any time by any order of that size or larger that matches in the order book. <code>displayvol</code> can only be used with the <code>limit</code> order type, must be greater than 0, and less than volume.</p>
pair required	<p>string</p> <p>Asset pair id or altname</p>
price	<p>string</p> <p>Price:</p> <ul style="list-style-type: none"><li>• Limit price for limit orders</li><li>• Trigger price for stop-loss, stop-loss-limit, take-profit, take-profit-limit, trailing-stop and trailing-stop-limit orders</li></ul> <p>Notes:</p> <ul style="list-style-type: none"><li>• Relative Prices: Either price or price2 can be preceded by +, -, or # to specify the order price as an offset relative to the last traded price. + adds the</li></ul>

amount to, and - subtracts the amount from the last traded price. # will either add or subtract the amount to the last traded price, depending on the direction and order type used. Prices can also be suffixed with a % to signify the relative amount as a percentage, rather than an absolute price difference.

- Trailing Stops: Must use a relative price for this field, namely the + prefix, from which the direction will be automatic based on if the original order is a buy or sell (no need to use - or #). The % suffix also works for these order types to use a relative percentage price.

string

Secondary Price:

price2

- Limit price for stop-loss-limit, take-profit-limit and trailing-stop-limit orders Note:
- Trailing Stops: Must use a relative price for this field, namely one of the + or - prefixes. This will provide the offset from the trigger price to the limit price, i.e. +0 would set the limit price equal to the trigger price. The % suffix also works for this field to use a relative percentage limit price.

string

Default: "last"

Enum: "index" "last"

trigger

Price signal used to trigger stop-loss, stop-loss-limit, take-profit, take-profit-limit, trailing-stop and trailing-stop-limit orders Notes:

- This trigger type will also be used for any associated conditional close orders.
- To keep triggers serviceable, the last price will be used as fallback reference price during connectivity issues with external index feeds.

string

leverage

Amount of leverage desired (default: none)

boolean

Default: false

reduce\_only

If true, order will only reduce a currently open position, not increase it or open a new position.

string

stptype

Default: "cancel-newest"

Enum: "cancel-newest" "cancel-oldest" "cancel-both"

Self trade prevention behavior definition:

- cancel-newest - if self trade is triggered, arriving order will be canceled
- cancel-oldest - if self trade is triggered, resting order will be canceled
- cancel-both - if self trade is triggered, both arriving and resting orders will be canceled

string (oflags)

Comma delimited list of order flags

oflags

- post post-only order (available when ordertype = limit)
- fcib prefer fee in base currency (default if selling)
- fciq prefer fee in quote currency (default if buying, mutually exclusive with fcib)
- nompp disable [market price protection](#) for market orders
- viqc order volume expressed in quote currency. This is supported only for market orders.

string

Default: "GTC"

Enum: "GTC" "IOC" "GTD"

timeinforce

Time-in-force of the order to specify how long it should remain in the order book before being cancelled. GTC (Good-'til-cancelled) is default if the parameter is omitted. IOC (immediate-or-cancel) will immediately execute the amount possible and cancel any remaining balance rather than resting in the book. GTD (good-'til-date), if specified, must coincide with a desired expiretm.

string

Scheduled start time, can be specified as an absolute timestamp or as a number of seconds in the future:

starttm

- 0 now (default)
- <n> = unix timestamp of start time
- +<n> = schedule start time <n> seconds from now
  - Note that URL encoding of the + character changes it to a space, so please use %2b followed by the number of seconds instead of +

string

expiretm

Expiration time, also can be specified as an absolute timestamp or as a number of seconds in the future:

- 0 no expiration (default)

- <n> = unix timestamp of expiration time
- +<n> = expire <n> seconds from now, minimum 5 seconds
  - Note that URL encoding of the + character changes it to a space, so please use %2b followed by the number of seconds instead of +

string

Enum: "limit" "stop-loss" "take-profit" "stop-loss-limit" "take-profit-limit" "trailing-stop" "trailing-stop-limit"

Conditional close order type

close[ordertype]      Note: [Conditional close orders](#) are triggered by execution of the primary order in the same quantity and opposite direction, but once triggered are **independent orders** that may reduce or increase net position

string

close[price]      Conditional close order price

string

close[price2]      Conditional close order price2

string

deadline      RFC3339 timestamp (e.g. 2021-04-01T00:18:45Z) after which the matching engine should reject the new order request, in presence of latency or order queueing: min now() + 2 seconds, max now() + 60 seconds.

boolean

Default: false

validate

Validate inputs only. Do not submit order.

Responses



200

Order added.

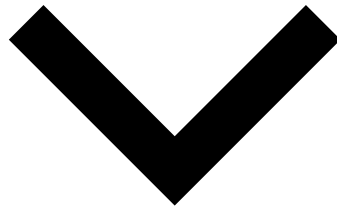
Response Schema: application/json



object (OrderAdded)

result  
error

Array of strings (error) [ items ]



post/private/AddOrder

Production Server

<https://api.kraken.com/0/private/AddOrder>

## Request samples

- cURL
- Python

Copy

```
// buy 2.1234 XBTUSD @ limit $45,000.1  
// with 2:1 leverage, with a follow up stop loss
```

```
curl -X "POST" "https://api.kraken.com/0/private/AddOrder" \  
  -H 'API-Key: <YOUR-API-KEY>' \  
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \  
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \  
  --data-urlencode "nonce=<YOUR-NONCE>" \  
  --data-urlencode "pair=XXBTZUSD" \  
  --data-urlencode "type=buy" \  
  --data-urlencode "ordertype=limit" \  
  --data-urlencode "price=45000.1" \  
  --data-urlencode "volume=2.1234" \  
  --data-urlencode "leverage=2:1" \  
  --data-urlencode "close[ordertype]=stop-loss-limit" \  
  --data-urlencode "close[price]=38000" \  
  --data-urlencode "close[price2]=36000"
```

## Response samples

- 200

Content type

application/json

Example

▼

Limit

▼

Limit

Copy

Expand all

Collapse all

```
{
  "error": [ ],
  "result": {
    "descr": {
      "order": "buy 1.25000000 XBTUSD @ limit 27500.0"
    },
    "txid": [
      "0U22CG-KLAF2-FWUDD7"
    ]
  }
}
```

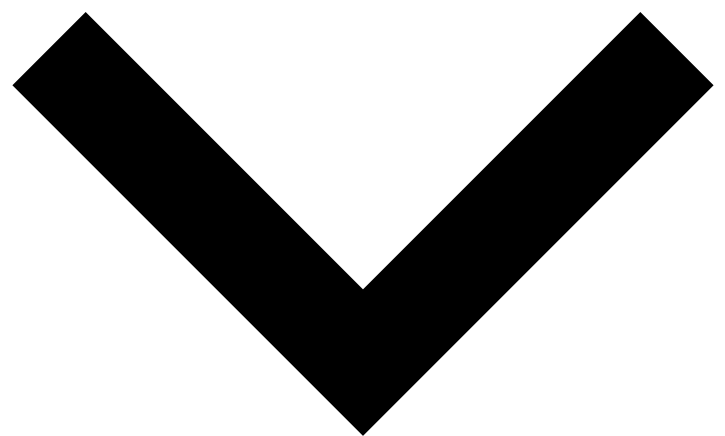
## Add Order Batch

Send an array of orders (max: 15). Any orders rejected due to order validations, will be dropped and the rest of the batch is processed. All orders in batch should be limited to a single pair. The order of returned txid's in the response array is the same as the order of the order list sent in request.

**Note:** See the [AssetPairs](#) endpoint for details on the available trading pairs, their price and quantity precisions, order minimums, available leverage, etc.

**API Key Permissions Required:** Orders and trades - Create & modify orders

**Authorizations:**

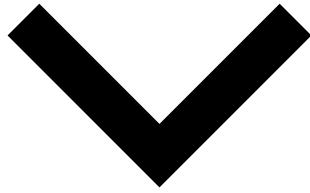


(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
	Array of objects





orders  
required

string

pair  
required

Asset pair id or altname

string

deadline

RFC3339 timestamp (e.g.  
2021-04-01T00:18:45Z) after which the  
matching engine should reject the new  
order request, in presence of latency or  
order queueing. min now() + 2 seconds,  
max now() + 60 seconds.

validate

boolean  
Default: false

Validate inputs only. Do not submit order.

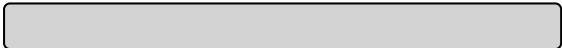
Responses



200

Orders added.

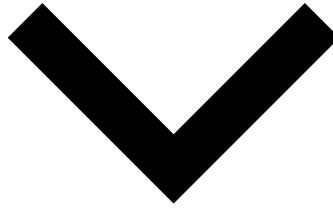
Response Schema: application/json



object (Result)

result  
error

Array of strings (error) [ items ]



post/private/AddOrderBatch

Production Server

<https://api.kraken.com/0/private/AddOrderBatch>

## Request samples

- cURL
- Python

Copy

// Send buy and sell BTC/USD

```
curl -X "POST" "https://api.kraken.com/0/private/AddOrderBatch" \
-H 'API-Key: <YOUR-API-KEY>' \
-H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
-H 'Content-Type: application/json' \
{
  "deadline": "2022-05-24T14:15:22Z",
  "nonce": "<YOUR-NOUNCE>",
  "orders": [
    {
      "close": {"ordertype": "stop-loss-limit",
        "price": "37000",
        "price2": "36000"},
      "ordertype": "limit",
      "price": "40000",
      "price2": "string",
      "timeinforce": "GTC",
      "type": "buy",
      "userref": "345",
      "volume": "1.2"
    },
  ],
}
```

```
{
  "ordertype": "limit",
  "price": "42000",
  "starttm": "string",
  "timeinforce": "GTC",
  "type": "sell",
  "userref": "123",
  "volume": "1.2"
},
```

## Response samples

- 200

Content type  
application/json

## Example

Limits

```

graph LR
    subgraph Stack [ ]
        direction TB
        A[Copy]
        B[Collapse all]
        C[ ]
    end
    D[Expand all]
  
```

```

• "error": [ ],
• "result": {
  ◦ "orders": [
    ▪ {
      ▪ "txid": "65LRD3-AHGRA-YAH8E5",
      ▪ "descr": {
        ▪ "order": "buy 1.02010000 XBTUSD @ limit
          29000.0"
      }
    },
    ▪ {
      ▪ "txid": "0K8HFF-5J2PL-XLR17S",
      ▪ "descr": {
        ▪ "order": "sell 0.14000000 XBTUSD @ limit
          40000.0"
      }
    }
  ]
}

```

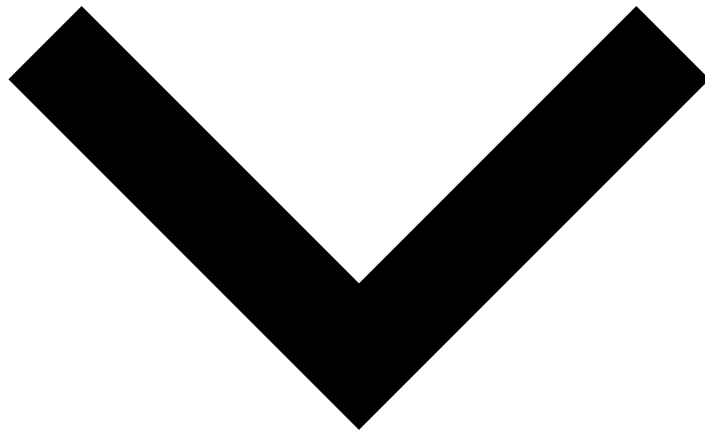
# Edit Order

Edit volume and price on open orders. Uneditable orders include triggered stop/profit orders, orders with conditional close terms attached, those already cancelled or filled, and those where the executed volume is greater than the newly supplied volume. post-only flag is not retained from original order after successful edit. post-only needs to be explicitly set on edit request.

**Note:** See the [AssetPairs](#) endpoint for details on the available trading pairs, their price and quantity precisions, order minimums, available leverage, etc.

**API Key Permissions Required:** Orders and trades - Create & modify orders

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce required	integer <int32> (nonce)  Nonce used in construction of API-Sign header
-------------------	------------------------------------------------------------------------------

	integer <int32>  User reference id
userref	userref is an optional user-specified integer id associated with edit request.

Note: userref from parent order will not be retained on the new order after edit.



string (string) or integer (integer)  
  
Original Order ID or User Reference Id (userref) which is user-specified integer id used with the original order. If userref is not unique and was used with multiple order, edit request is denied with an error.

txid required	string
------------------	--------

volume	Order quantity in terms of the base asset.
--------	--------------------------------------------

	string
displayvol	Used to edit an iceberg order, this is the visible order quantity in terms of the base asset. The rest of the order will be hidden, although the full volume can be filled at any time by any order of that size or larger that matches in the order book. displayvol can only be used with the limit order type, must be greater than 0, and less than volume.
pair required	string  Asset pair id or altname
	string  Price:  <ul style="list-style-type: none"> <li>• Limit price for limit orders</li> <li>• Trigger price for stop-loss, stop-loss-limit, take-profit, take-profit-limit, trailing-stop and trailing-stop-limit orders</li> </ul>
price	Notes:  <ul style="list-style-type: none"> <li>• Relative Prices: Either price or price2 can be preceded by +, -, or # to specify the order price as an offset relative to the last traded price. + adds the amount to, and - subtracts the amount from the last traded price. # will either add or subtract the amount to the last traded price, depending on the direction and order type used. Prices can also be suffixed with a % to signify the relative amount as a percentage, rather than an absolute price difference.</li> <li>• Trailing Stops: Must use a relative price for this field, namely the + prefix, from which the direction will be automatic based on if the original order is a buy or sell (no need to use - or #). The % suffix also works for these order types to use a relative percentage price.</li> </ul>
price2	string

## Secondary Price:

- Limit price for stop-loss-limit, take-profit-limit and trailing-stop-limit orders Note:
- Trailing Stops: Must use a relative price for this field, namely one of the + or - prefixes. This will provide the offset from the trigger price to the limit price, i.e. +0 would set the limit price equal to the trigger price. The % suffix also works for this field to use a relative percentage limit price.

any

oflags

Comma delimited list of order flags. Only these flags can be changed: - post post-only order (available when ordertype = limit). All the flags from the parent order are retained except post-only. post-only needs to be explicitly mentioned on edit request.

string

deadline

RFC3339 timestamp (e.g. 2021-04-01T00:18:45Z) after which the matching engine should reject the new order request, in presence of latency or order queueing. min now() + 2 seconds, max now() + 60 seconds.

boolean

cancel\_response

Used to interpret if client wants to receive pending replace, before the order is completely replaced

boolean

Default: false

validate

Validate inputs only. Do not submit order.



Responses



200

Order edited.

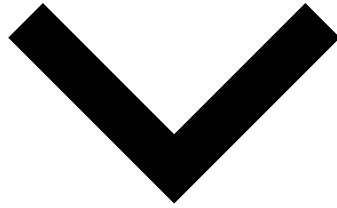
Response Schema: application/json



object (OrderEdited)

result  
error

Array of strings (error) [ items ]



post/private/EditOrder

Production Server

<https://api.kraken.com/0/private/EditOrder>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/EditOrder" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "pair=XXBTZUSD" \
  --data-urlencode "txid=0HY067-6LP66-HMQ437" \
  --data-urlencode "ordertype=limit" \
  --data-urlencode "price=45000.1" \
  --data-urlencode "price2=46000.1" \
  --data-urlencode "volume=2.1234" \
```

## Response samples

- 200

Content type  
application/json

Example

▼ Limit

Limit

Copy

Expand all

Collapse all

```

{
  • "error": [ ],
  • "result": {
    ◦ "descr": {
      ■ "order": "buy 1.25000000 XBTUSD @ limit 27500.0"
    },
    ◦ "txid": "OU22CG-KLAF2-FWUDD7"
  }
}

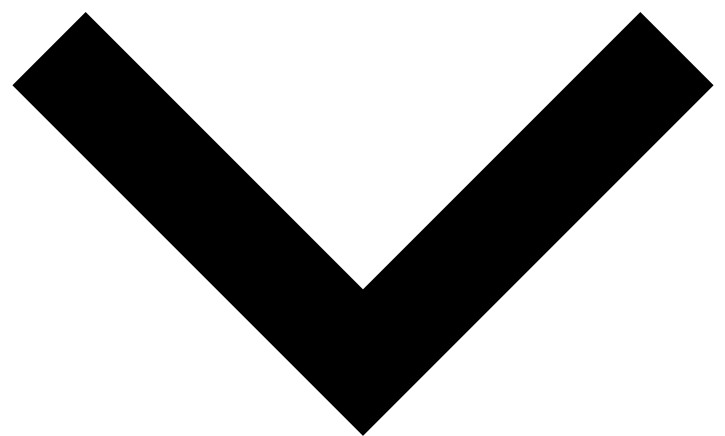
```

## Cancel Order

Cancel a particular open order (or set of open orders) by txid or userref

**API Key Permissions Required:** Orders and trades - Create & modify orders or Orders and trades - Cancel & close orders

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce	integer <int32> (nonce)
required	Nonce used in construction of API-Sign header
	string (string) or integer (integer)
	Open order transaction ID (txid) or user reference (userref)



txid  
required

## Responses

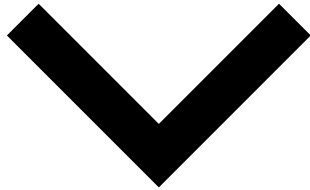


**200**

Open order cancelled.

**Response Schema: application/json**

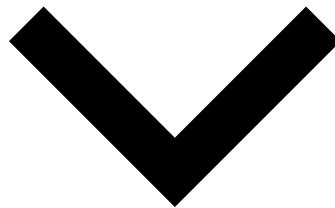
object (OrderCancelled)



result

error

Array of strings (error) [ items ]



post/private/CancelOrder

Production Server

<https://api.kraken.com/0/private/CancelOrder>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/CancelOrder" \  
  -H 'API-Key: <YOUR-API-KEY>' \  
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \  
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \  
  --data-urlencode "nonce=<YOUR-NONCE>" \  
  --data-urlencode "txid=0YVGEW-VYV5B-UUEXSK"
```

# Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

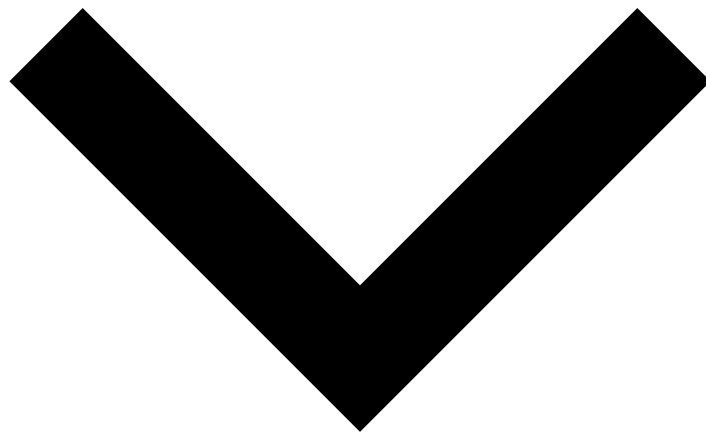
```
• "error": [ ],
• "result": {
  ◦ "count": 1
}
}
```

## Cancel All Orders

Cancel all open orders

**API Key Permissions Required:** Orders and trades - Create & modify orders or Orders and trades - Cancel & close orders

## Authorizations:



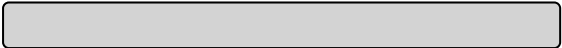
(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header



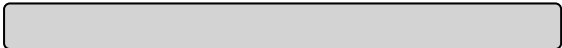
Responses



200

Open orders cancelled.

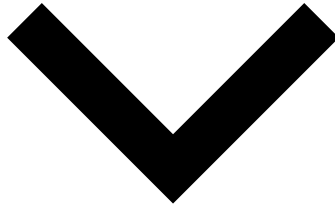
Response Schema: application/json



object (OrderCancelled)

result  
error

Array of strings (error) [ items ]



post/private/CancelAll

Production Server

<https://api.kraken.com/0/private/CancelAll>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/CancelAll" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

```
{
  • "error": [ ],
  • "result": {
    ◦ "count": 4
  }
}
```

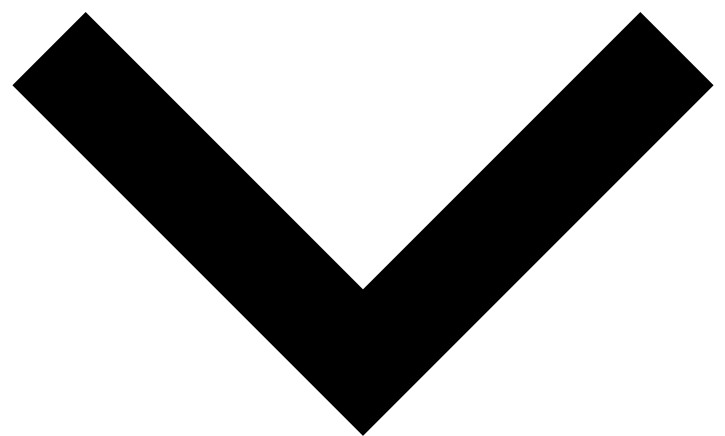
## Cancel All Orders After X

CancelAllOrdersAfter provides a "Dead Man's Switch" mechanism to protect the client from network malfunction, extreme latency or unexpected matching engine downtime. The client can send a request with a timeout (in seconds), that will start a countdown timer which will cancel all client orders when the timer expires. The client has to keep sending new requests to push back the trigger time, or deactivate the mechanism by specifying a timeout of 0. If the timer expires, all orders are cancelled and then the timer remains disabled until the client provides a new (non-zero) timeout.

The recommended use is to make a call every 15 to 30 seconds, providing a timeout of 60 seconds. This allows the client to keep the orders in place in case of a brief disconnection or transient delay, while keeping them safe in case of a network breakdown. It is also recommended to disable the timer ahead of regularly scheduled trading engine maintenance (if the timer is enabled, all orders will be cancelled when the trading engine comes back from downtime - planned or otherwise).

**API Key Permissions Required:** Orders and trades - Create & modify orders or Orders and trades - Cancel & close orders

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)
nonce
required Nonce used in construction of API-Sign header
integer
timeout
required Duration (in seconds) to set/extend the timer, should be less than 86400 seconds

# Responses



200

Dead man's switch timer reset or disabled.

## Response Schema: application/json

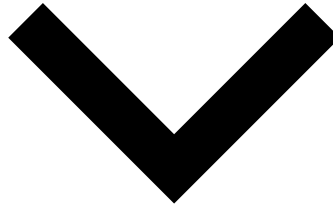


object

result

error

Array of  
strings (error)



post/private/CancelAllOrdersAfter

Production Server

<https://api.kraken.com/0/private/CancelAllOrdersAfter>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/CancelAllOrdersAfter" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "timeout=60"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

```
{
  "error": [ ],
  "result": {
    "currentTime": "2023-03-24T17:41:56Z",
    "triggerTime": "2023-03-24T17:42:56Z"
  }
}
```

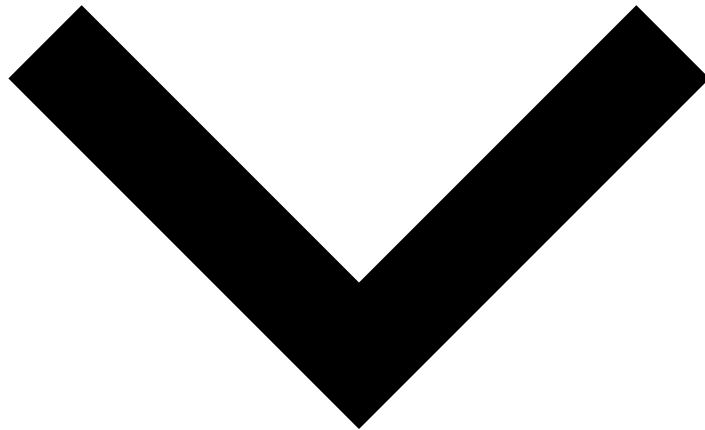
}

## Cancel Order Batch

Cancel multiple open orders by txid or userref (maximum 50 total unique IDs/references)

**API Key Permissions Required:** Orders and trades - Create & modify orders or Orders and trades - Cancel & close orders

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

nonce

integer <int32> (nonce)

required

Nonce used in construction of API-Sign header



Array of objects

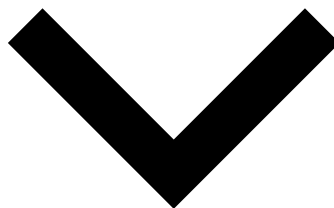
orders  
required

## Responses

200
-----

Open order cancelled.

--



post/private/CancelOrderBatch

Production Server

<https://api.kraken.com/0/private/CancelOrderBatch>

## Request samples

- cURL
- Python



Copy

```
curl -X "POST" "https://api.kraken.com/0/private/CancelOrderBatch" \
-H 'API-Key: <YOUR-API-KEY>' \
-H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
-H 'Content-Type: application/json' \
{
  "nonce": "string",
  "orders": ["0G5V2Y-RYKVL-DT3V3B", "0P5V2Y-RYKVL-ET3V3B"],
}
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

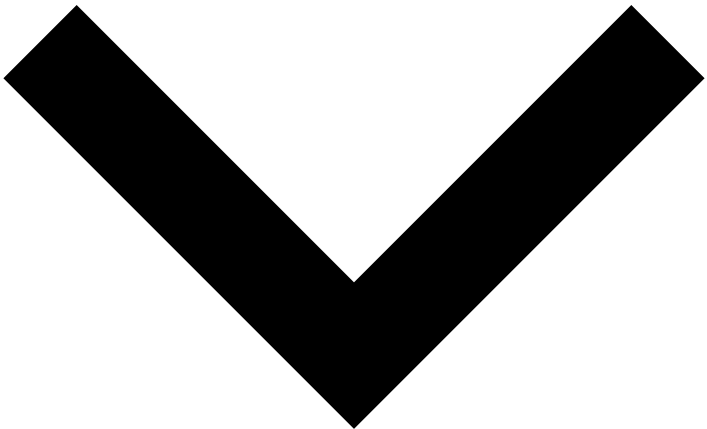
```
{
  "error": [ ],
  "result": {
    "count": 2
  }
}
```

# NFT Trading

## createAuction

Create NFT auction. Creates a new auction for a user owned NFT in Kraken's custody. This method accepts the auction details. In the response, the method returns the identifier of the auction.

**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

auction_currency	string
required	Auction currency code
	object
	Auction parameters



auction\_params  
required

auction\_type  
required

nft\_id  
required

nonce  
required

offer\_id

otp

start\_time

string  
Enum: "ascending" "descending" "fixed"

Auction type

Array of strings

Array of NFT ids to put in auction

integer <int32> (nonce)

Nonce used in construction of API-Sign  
header

string or null

Optional offer id linked to the auction

string or null

integer or null <uint32> >= 0

Optional unix time (in seconds) defining  
the start time of the auction

Responses



200

Response

Response Schema: application/json

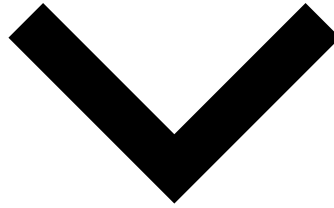
error  
required

Array of  
strings (error)



object or null

result



post/private/NftCreateAuction

Production Server

<https://api.kraken.com/0/private/NftCreateAuction>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftCreateAuction" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/json' \
  {
    "nonce": <YOUR-NONCE>,
    "auction_currency": "ETH",
    "nft_id": ["NT4EFB0-0WGI5-QL07AG"],
    "auction_type": "fixed",
    "auction_params": {
      "allow_offers": true,
      "ask_price": 10
    }
  }
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

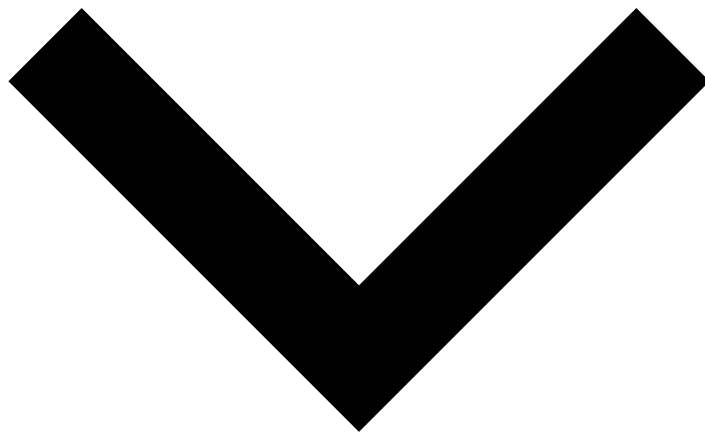
Collapse all

```
{
  • "error": [ ],
  • "result": {
    ◦ "auction_id": "AT2POJ-4CH30-4TH6JH"
  }
}
```

## **modifyAuction**

Modify NFT auction. Modifies an existing NFT auction. This method accepts the auction identifier and the new details. In the response, the method returns the identifier of the auction.

**Authorizations:**

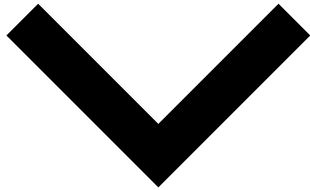


API-Key

**Request Body schema: application/x-www-form-urlencoded**

string or integer or number or (object or null)

Only for Fixed price auction type New auction ask price set by the seller



ask\_price

string

auction\_id  
required

Auction id

integer <int32> (nonce)

nonce  
required

Nonce used in construction of API-Sign  
header

otp

string or null



string or integer or number or (object or  
null)

Only for Descending auction type New  
auction reserve price, minimum price at  
which the item can be sold

reserve\_price



Responses



200

Response

Response Schema: application/json

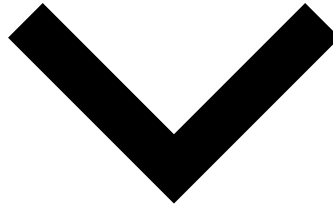
error  
required

Array of  
strings (error)



object or null

result



post/private/NftModifyAuction

Production Server

https://api.kraken.com/0/private/NftModifyAuction

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftModifyAuction" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/json' \
  {
    "nonce": <YOUR-NONCE>,
    "auction_id": "AT2POJ-4CH30-4TH6JH",
    "ask_price": "0.03"
  }
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

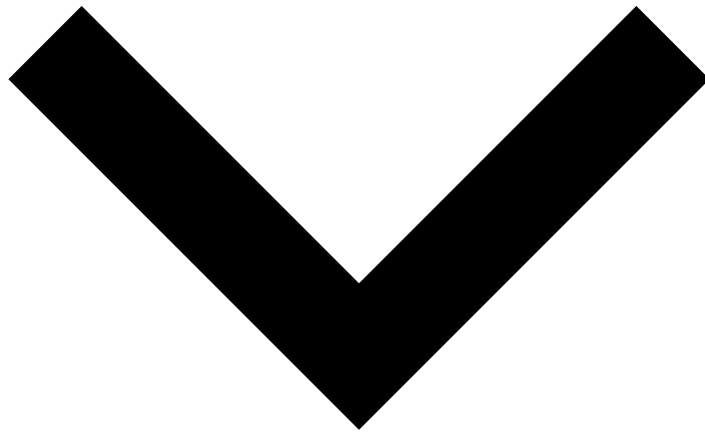
- "error": [ ],

```
• "result": {  
  ◦ "auction_id": "AT2P0J-4CH30-4TH6JH"  
}  
}
```

## cancelAuction

Cancel NFT auction. This method accepts an array of auction identifiers to cancel. Returns an array of statuses for the attempted cancel action.

**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

	Array of strings
auction_ids	
required	Array of auction ids to cancel
	integer <int32> (nonce)
nonce	
required	Nonce used in construction of API-Sign header
otp	string or null

## Responses



**200**

Response

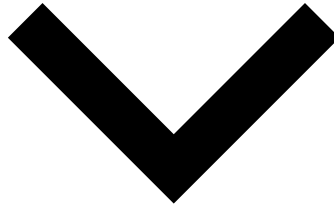
### Response Schema: application/json

error	Array of
required	strings (error)



object or null

result



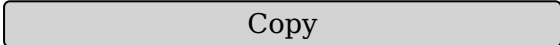
post/private/NftCancelAuction

Production Server

<https://api.kraken.com/0/private/NftCancelAuction>

## Request samples

- cURL
- Python

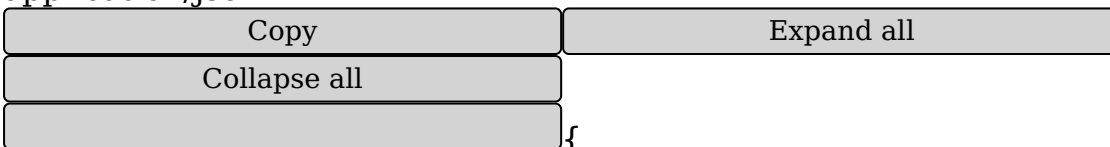


```
curl -X "POST" "https://api.kraken.com/0/private/NftCancelAuction" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/json' \
  {
    "auction_ids": ['AGZGTN-DQLBQ-0PBMT7']
  }
```

## Response samples

- 200

Content type  
application/json



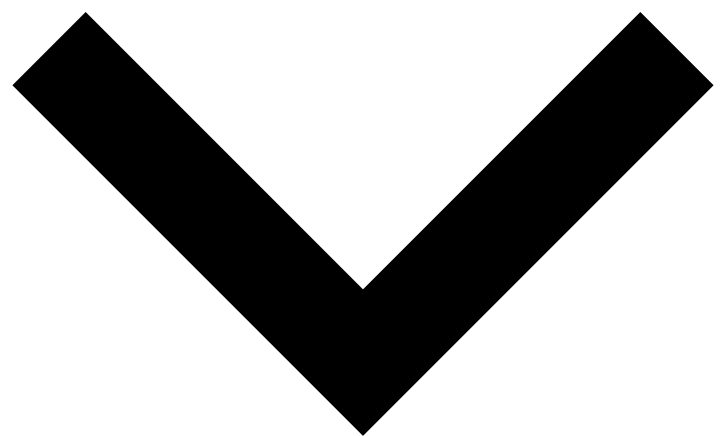
- "error": [ ],

```
• "result": [REDACTED] {
  ◦ "statuses": [REDACTED] [
    ■ [REDACTED] {
      ■ "id": "AGZGTN-DQLBQ-OPBMT7",
      ■ "status": "cancelled",
      ■ "reason": "None"
    }
  ]
}
}
```

## placeOffer

Place NFT offer. Creates a new offer for a specified NFT. This method accepts the offer details. In the response, the method returns the identifier of the offer.

**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

	integer or null <uint32> >= 0
expire_time	Optional unix time (in seconds) defining the expire time of the offer
nft_id	Array of strings
required	Identifier of the NFT
nonce	integer <int32> (nonce)
required	

Nonce used in construction of API-Sign header



string or integer or number

Offer amount

offer\_amount  
required

string

offer\_currency  
required

Offer currency code

otp

string or null  
string or null

quote\_id

Optional quote id, if the offer is linked to an existing quote

Responses

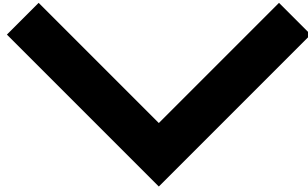


200

Response

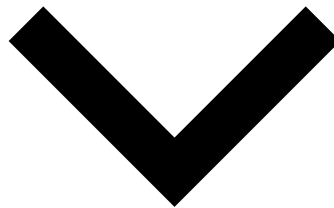


error  
required



result

\_\_\_\_\_



## Production Server

## Request samples

- cURL
- Python

```
curl -X "POST" "https://api.kraken.com/0/private/NftPlaceOffer" \
-H 'API-Key: <YOUR-API-KEY>' \
-H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
-H 'Content-Type: application/json' \
```

```
{
  "nonce":<YOUR-NONCE>,
  "nft_id": ["NTYI3JW-MH6TV-FIHLVZ"],
  "offer_currency": "MATIC",
  "offer_amount": 11
}
```

## Response samples

- 200

Content type  
application/json

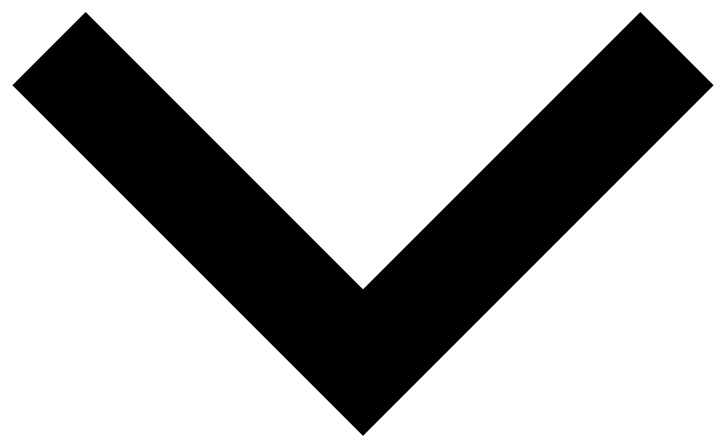
Copy	Expand all
Collapse all	

```
{
  • "result": {
    ◦ "offer_id": "ON4LK46-LJSMF-5HH065"
  },
  • "error": [ ]
}
```

## cancelOffer

Cancel NFT offer. This method accepts an array of offer identifiers to cancel. Returns an array of statuses for the attempted cancel action.

**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

- integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header
- Array of strings  
offer\_ids  
required Array of offer ids to cancel
- string or null  
otp

Responses



200

Response

Response Schema: application/json

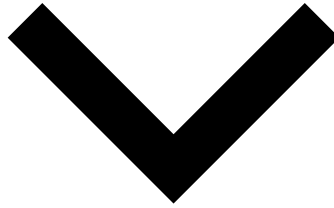
error  
required

Array of  
strings (error)



object or null

result



post/private/NftCancelOffer

Production Server

<https://api.kraken.com/0/private/NftCancelOffer>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftCancelOffer" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=' \
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

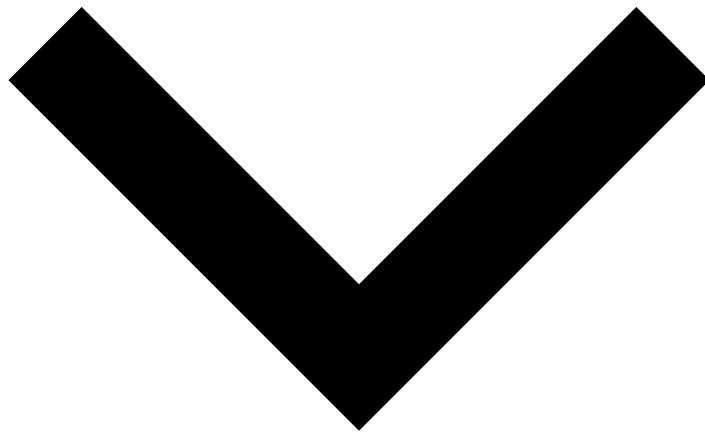
- "result": {
  - "statuses": [
    - {
      - "id": "0N4LK46-LJSMF-5HH065",
      - "status": "cancelled",

```
      "reason": null
    }
  ],
  "error": [ ]
}
```

## counterNftOffer

Creates a counteroffer for an existing offer. This method accepts the identifier of the original offer along with a new asking price and currency. In the response, the method returns the identifier of the auction.

**Authorizations:**



**Request Body schema: application/x-www-form-urlencoded**



string or integer or number  
Counter offer ask price

ask_price required	
currency required	string Counter offer currency
expire_time	integer or null <uint32> >= 0 Optional expiry time
nonce required	integer <int32> (nonce) Nonce used in construction of API-Sign header
offer_id required	string Original offer id
otp	string or null

Responses



200

Response

Response Schema: application/json

error  
required

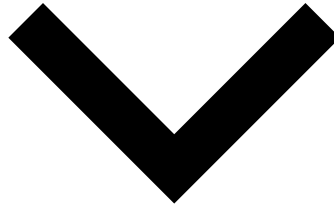
Array of  
strings (error)



object or null

result





post/private/NftCounterOffer

Production Server

<https://api.kraken.com/0/private/NftCounterOffer>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftCounterOffer" \
-H 'API-Key: <YOUR-API-KEY>' \
-H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
-H 'Content-Type: application/x-www-form-urlencoded; charset=' \
--data-urlencode "nonce=<YOUR-NONCE>&ask_price=1&currency=ET"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

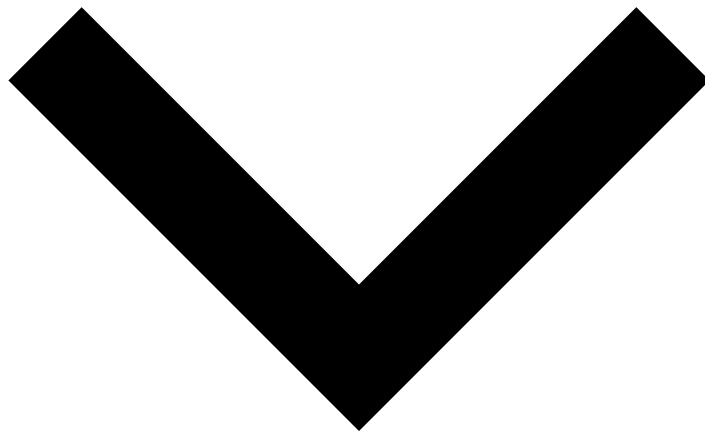
Collapse all

```
{
  "result": {
    "auction_id": "AYRRX3-JAJVV-IF2HHD"
  },
  "error": [ ]
}
```

# acceptNftOffer

Accept NFT offer. This method accepts the identifier of the offer to accept. Returns the identifier of the auction created.

**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

offer\_id string  
required

Offer id

otp      string or null

**Responses**



**200**

Response

**Response Schema: application/json**

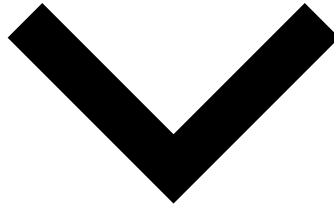
error  
required

Array of  
strings (error)



object or null

result



post/private/NftAcceptOffer

Production Server

https://api.kraken.com/0/private/NftAcceptOffer

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftAcceptOffer" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/json' \
  {
    "nonce": <YOUR-NONCE>,
    "offer_id": "ON65F7C-CDF0B-VSYE6D"
  }
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

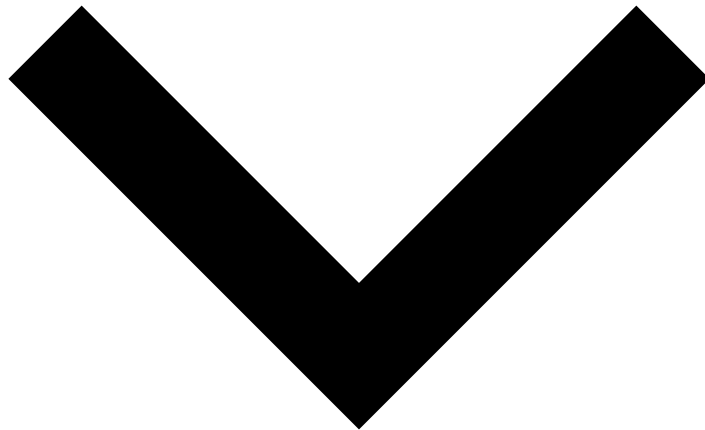
- ```
{
  "error": [ ],
  "result": {
    "auction_id": "AYXTZ3-LE64M-LGTI6D"
```

```
}  
}
```

## getAuctionTrades

Get NFT auction trades. Returns an array of NFT trades given the requested filters.

**Authorizations:**



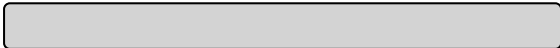
API-Key

**Request Body schema: application/x-www-form-urlencoded**

auction\_id Array of strings or null

|            |                                                         |
|------------|---------------------------------------------------------|
|            | Optional array of auction ids to filter                 |
|            | integer <uint32> >= 0<br>Default: 4294967295            |
| end_time   | unix time (in seconds) defining the latest trade time   |
|            | Array of strings or null                                |
| nft_id     | Optional array of NFT identifiers to filter             |
|            | integer <int32> (nonce)                                 |
| nonce      | Nonce used in construction of API-Sign header           |
| required   |                                                         |
| otp        | string or null                                          |
|            | integer <uint32> >= 0<br>Default: 0                     |
| start_time | unix time (in seconds) defining the earliest trade time |

## Responses



**200**

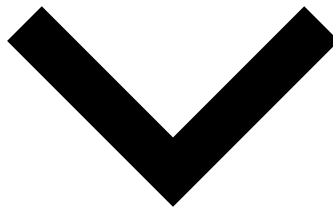
Response

### Response Schema: application/json

|          |                          |
|----------|--------------------------|
| error    | Array of                 |
| required | strings (error)          |
|          | Array of objects or null |



result



post/private/NftAuctionTrades

Production Server

<https://api.kraken.com/0/private/NftAuctionTrades>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftAuctionTrades" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/json' \
  {
    "nonce": <YOUR-NONCE>,
    "nft_id": ["NTYI3JW-MH6TV-FIHLVZ"]
  }
```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
| {            |            |

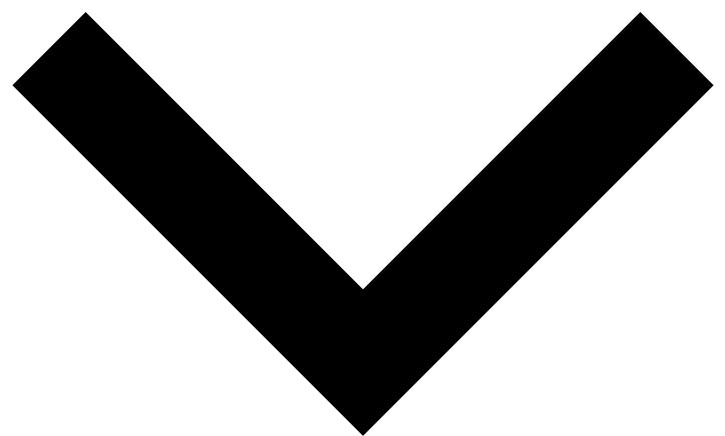
```
• "error": [ ],
• "result": [
  ◦ {
    ■ "auction_id": "AJXTPJ-22AZ4-5B72GK",
    ■ "trade_id": "TNUH4MT-3CUNP-GM47JM",
    ■ "currency": "ETH",
    ■ "price": "0.0100000000",
    ■ "volume": "1",
    ■ "time": 1653673317249460700,
    ■ "buy_user": "finish-stumble-seed",
    ■ "sell_user": "civil-hire-matrix",
    ■ "nft_ids": [
      ■ "NT47JJT-TLFPQ-CCBUQI"
    ]
  },
  ◦ {
    ■ "auction_id": "AQIPAV-WXBF4-4X4JMT",
    ■ "trade_id": "TNHEJSU-6G27H-T26RUT",
    ■ "currency": "ETH",
    ■ "price": "0.0100000000",
    ■ "volume": "1",
    ■ "time": 1653594621912728000,
    ■ "buy_user": "choose-math-month",
    ■ "sell_user": "civil-hire-matrix",
    ■ "nft_ids": [
      ■ "NT57U47-ARILO-6MA65G"
    ]
  }
]
}
```

## getUserOffers

Get NFT user offers. Gets the offers placed by the requesting user or received to owned NFTs.



**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

|            |                               |
|------------|-------------------------------|
|            | Array of strings or null      |
| chain      | Optional chain id filter      |
|            | Array of strings or null      |
| collection | Optional collection id filter |
|            | integer or null <uint32> >= 0 |
| count      | Offers to return per request  |

|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
|                   | integer or null <uint32> >= 0                                                                   |
| end_time          | unix time (in seconds) defining the latest offer time. Set to 0 to requests latest as possible. |
|                   | boolean or null                                                                                 |
| exclude_quotes    | Exclude offers linked to a quote. That excludes any offer initiated by Market Maker.            |
|                   | string or null                                                                                  |
| nft_id            | Optional nft id filter                                                                          |
|                   | integer <int32> (nonce)                                                                         |
| nonce<br>required | Nonce used in construction of API-Sign header                                                   |
| otp               | string or null                                                                                  |
|                   | integer <uint32> >= 0                                                                           |
| pos<br>required   | Paging offset                                                                                   |
|                   | string                                                                                          |
| scope<br>required | Enum: "placed" "received"<br>Offer scope, Placed or Received                                    |
|                   | string                                                                                          |
| sort<br>required  | Enum: "desc" "asc"<br>Sort method                                                               |
|                   | integer or null <uint32> >= 0                                                                   |
| start_time        | unix time (in seconds) defining the earliest offer time                                         |
|                   | string or null                                                                                  |
| status            | Enum: "open" "closed" "expired"<br>Optional offer status filter                                 |

Responses



200

Response

Response Schema: application/json

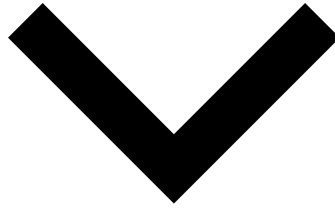
error  
required

Array of  
strings (error)



object or null

result



post/private/NftUserOffers

Production Server

https://api.kraken.com/0/private/NftUserOffers

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftUserOffers" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=' \
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

- "error": [ ],
- "result": {
  - "offers": [
    - {
      - "id": "0N65F7C-CDF0B-VSYE6D",

- "quote\_id": "None",
- "time": 1709679512,
- "status": "open",
- "status\_detail": "LOCKED",
- "ref\_bucket\_id": "1",
- "amount": {
  - "asset\_name": "USDC",
  - "asset\_alt\_name": "USDC",
  - "amount": "5.00000000"
 },
- "expire\_time": 1710198000,
- "social\_id": "disagree-solve-wait",
- "item": {
  - "nft\_id": "NTF6XJ7-FK7UJ-STHZ2W",
  - "nft\_name": "Decent Aqua Narwhal",
  - "nft\_thumbnail\_url": "",
  - "nft\_image": {
    - "kind": "Main",
    - "media": {
      - "url": "<https://assets-dynamic.kraken.com/media1%2F25735d1e152318760a10f61502f646023ecf>
      - "media\_type": "image/png",
      - "size": 10188897
 },
 },
- "nft\_media": [
  - {
    - "kind": "Main",
    - "media": {
      - "url": "<https://assets-dynamic.kraken.com/media1%2F25735d1e152318760a10f61502f646023ecf>
      - "media\_type": "image/png",
      - "size": 10188897
 ],
- "creators": [
  - "brains + zombies"
 ],
- "blockchain": {
  - "id": "SOLANA",
  - "asset": "SOL"
 },
- "collection\_id": "NCZPYAB-V6MJD-4X7NG7",

```

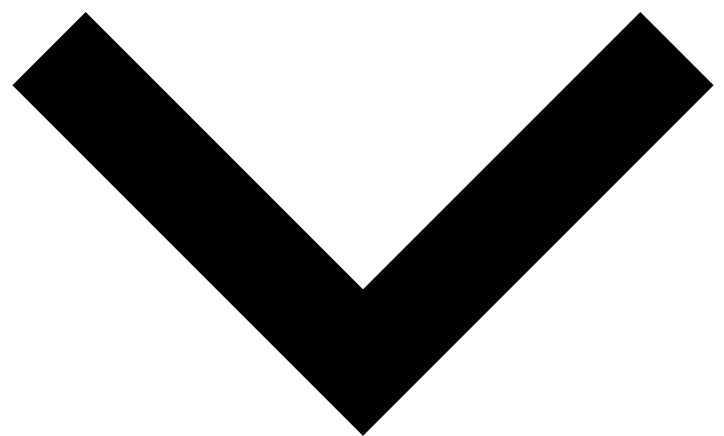
        ■ "collection_name": "brains + zombies
          (brains)"
      }
    }
  ],
  ◦ "count": 1
}
}

```

## getNftWallet

Returns a list of NFTs owned by the user. This includes both NFTs held in Kraken custody and NFTs from a Web3 wallet connected to the user's Kraken account. The method accepts various parameters that allow searching among NFTs, filtering them by certain attributes, and sorting.

**Authorizations:**

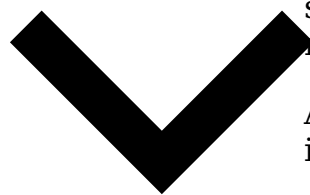


API-Key

**Request Body schema: application/x-www-form-urlencoded**

|          |                                                           |
|----------|-----------------------------------------------------------|
|          | string or null<br>Enum: "Ethereum" "Solana" "Polygon"     |
| chain    | Optional blockchain identifier to filter the results.     |
|          | string or null                                            |
| currency | Optional fiat currency used for converting crypto prices. |
|          | string or null                                            |

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
|                | Enum: "Kraken" "Wallet"                                         |
| custody        | Optional custody type (Kraken/Web3) to filter the results.      |
| nonce          | integer <int32> (nonce)                                         |
| required       | Nonce used in construction of API-Sign header                   |
| otp            | string or null<br>integer <uint16> [ 1 .. 65536 ]<br>Default: 1 |
| page           | Page number with query results starting from one                |
| per_page       | integer <uint16> [ 1 .. 1000 ]<br>Default: 5                    |
| price_currency | string                                                          |
|                | <input type="text"/>                                            |



string or integer or number or (object or null)

An amount, either as a string, and integer, or a decimal value

price\_high



string or integer or number or (object or null)

An amount, either as a string, and integer, or a decimal value

price\_low  
search

string or null



|        |                                                                                            |
|--------|--------------------------------------------------------------------------------------------|
|        | Optional string to search in the NFT's title/description.                                  |
| sort   | string or null<br>Enum: "RecentlyBought"<br>"RarityRankLowToHigh"<br>"RarityRankHighToLow" |
|        | Optional sorting parameter to order the results.                                           |
| status | Array of strings or null<br>Enum: "BuyNow" "OnAuction" "New"<br>"HasOffer"                 |
|        | Optional list of statuses to filter the results.                                           |

## Responses



**200**

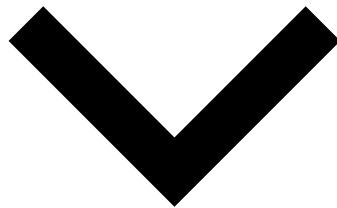
Response

### Response Schema: application/json

|                   |                                               |
|-------------------|-----------------------------------------------|
| error<br>required | Array of<br>strings (error)<br>object or null |
|-------------------|-----------------------------------------------|



result



post/private/NftWallet

Production Server

<https://api.kraken.com/0/private/NftWallet>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftWallet" \  
  -H 'API-Key: <YOUR-API-KEY>' \  
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \  
  -H 'Content-Type: application/x-www-form-urlencoded; charset=  
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              | {          |

```
• "error": [ ],
• "result": {
  ◦ "items": [
    ■ {
      ■ "id": "NT7EYX2-D7QVC-S7JDLE",
      ■ "name": "Castle Kid #7423",
      ■ "description": "10,000 randomly generated images
        for Colin Tilley's Castle Kid Collection",
      ■ "image": {
        ■ "kind": "Main",
        ■ "media": {
          ■ "url": "https://assets-
            dynamic.kraken.com/
            media1%2Fb05a8c15a65e94d78c0d7d1458bda7600dd0e2d7",
          ■ "media_type": "image/jpeg",
          ■ "size": 290534
        }
      },
      ■ "media": [
        ■ {
          ■ "kind": "Main",
          ■ "media": {
            ■ "url": "https://assets-
              dynamic.kraken.com/
              media1%2Fb05a8c15a65e94d78c0d7d1458bda7600dd0e2d7",
            ■ "media_type": "image/jpeg",
            ■ "size": 290534
          }
        }
      ]
    },
    ■ {
      ■ "id": "NAQLRWC-QUR4V-WB5QRM",
      ■ "name": "CK-Developer",
      ■ "username": "",
    }
  ],
  ■ "creators": [
    ■ {
      ■ "id": "NAQLRWC-QUR4V-WB5QRM",
      ■ "name": "CK-Developer",
      ■ "username": "",
    }
  ]
}
```

```
    ■ "image": {
      ■ "kind": "Main",
      ■ "media": {
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1%2F7d70ea6887fe7e2204429533420e719b
        ■ "media_type": "image/png",
        ■ "size": 843903
      }
    },
    ■ "verified": true
  },
  ■ "collection": {
    ■ "id": "NC5M0SV-7KZZI-0NSSBR",
    ■ "name": "Castle Kid By Colin Tilley",
    ■ "image": {
      ■ "kind": "Main",
      ■ "media": {
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1%2F30b590cfab2241735aaa808f6187592ead7c
        ■ "media_type": "image/png",
        ■ "size": 699309
      }
    },
    ■ "verified": true,
    ■ "total_items": 10000,
    ■ "floor_price": {
      ■ "original": {
        ■ "asset_name": "ETH",
        ■ "asset_alt_name": "ETH",
        ■ "amount": "0.0100000000"
      },
      ■ "native": {
        ■ "asset_name": "ETH",
        ■ "asset_alt_name": "ETH",
        ■ "amount": "0.0100000000"
      },
      ■ "fiat": {
        ■ "asset_name": "USD",
        ■ "asset_alt_name": "USD",
        ■ "amount": "20.1924"
      }
    }
  }
}
```

```

    },
    ■ "is_owned_by_user": true,
    ■ "custody": "Kraken",
    ■ "on_sale": false,
    ■ "on_sale_status": "NotListed",
    ■ "price": {
        ■ "native": {
            ■ "asset_name": "ETH",
            ■ "asset_alt_name": "ETH",
            ■ "amount": "0.0100000000"
        },
        ■ "fiat": {
            ■ "asset_name": "USD",
            ■ "asset_alt_name": "USD",
            ■ "amount": "20.1924"
        }
    },
    ■ "buy_now": null,
    ■ "last_auction_sale": {
        ■ "native": {
            ■ "asset_name": "ETH",
            ■ "asset_alt_name": "ETH",
            ■ "amount": "0.0100000000"
        },
        ■ "fiat": {
            ■ "asset_name": "USD",
            ■ "asset_alt_name": "USD",
            ■ "amount": "20.1924"
        }
    },
    ■ "last_sale_or_mint": {
        ■ "transfer_type": "sale",
        ■ "price": {
            ■ "native": {
                ■ "asset_name": "ETH",
                ■ "asset_alt_name": "ETH",
                ■ "amount": "0.0100000000"
            },
            ■ "fiat": {
                ■ "asset_name": "USD",
                ■ "asset_alt_name": "USD",
                ■ "amount": "20.1924"
            }
        }
    }
}

```

```

    },
    ■ "best_offer": null,
    ■ "token": [REDACTED]{
        ■ "blockchain": [REDACTED]{
            ■ "id": "Ethereum",
            ■ "asset": "ETH"
        },
        ■ "id": "7423",
        ■ "address":
            "0x5181af2c5cd19aaecada5d8a7afb7856b7643aca",
        ■ "symbol": "CASTLE KID",
        ■ "standard": "ERC-721",
        ■ "owner":
            "0xdc5dc5b18f09cdf1ae14862e8e4665369e614ce7"
    },
    ■ "rarity_rank": 8930
},
■ [REDACTED]{
    ■ "id": "NT4GUCU-SIJE2-YSQQG2",
    ■ "name": "Williams Racing Collectibles+ Grid
    Pass",
    ■ "description": "Grants access to a community of
    Williams Racing super-fans.",
    ■ "image": [REDACTED]{
        ■ "kind": "Main",
        ■ "media": [REDACTED]{
            ■ "url": "https://assets-
            dynamic.kraken.com/media1/
            b51a13042bf7a4a6beaf0bbb17ca4bee10999370aa811fdb6",
            ■ "media_type": "image/png",
            ■ "size": 2152243
        }
    },
    ■ "media": [REDACTED][
        ■ [REDACTED]{
            ■ "kind": "Main",
            ■ "media": [REDACTED]{
                ■ "url": "https://assets-
                dynamic.kraken.com/media1/
                b51a13042bf7a4a6beaf0bbb17ca4bee10999370aa811fdb6",
                ■ "media_type": "image/png",
                ■ "size": 2152243
            }
        },
        ■ [REDACTED]{
            ■ "kind": "Video",

```

```
      "media": {
        "url": "https://assets-  
dynamic.kraken.com/  
media1/177f9cd50f4b6ec154d609aa5862dc608f57bd",
        "media_type": "video/mp4",
        "size": 243316230
      }
    },
    ],
    "creators": [
      {
        "id": "NA7NELE-F0QFZ-0DW0TV",
        "name": "Williams Racing",
        "username": "",
        "image": {
          "kind": "Main",
          "media": {
            "url": "https://assets-  
dynamic.kraken.com/  
media1/71802e3780ae54ca416845955146ed04a5",
            "media_type": "image/png",
            "size": 19582
          }
        },
        "verified": true
      }
    ],
    "collection": {
      "id": "NCQNAB0-XYCA7-JMMSDF",
      "name": "Williams Racing Collectibles+ Grid  
Pass",
      "image": {
        "kind": "Main",
        "media": {
          "url": "https://assets-  
dynamic.kraken.com/  
media1/51c66513591958f4e123679890226f890bf255",
          "media_type": "image/png",
          "size": 60183
        }
      },
      "verified": true,
      "total_items": 100000,
    }
  }
}
```

```
    ■ "floor_price": [REDACTED]
    {
      ■ "original": [REDACTED]{
        ■ "asset_name": "EUR",
        ■ "asset_alt_name": "EUR",
        ■ "amount": "0.5000"
      },
      ■ "native": [REDACTED]{
        ■ "asset_name": "MATIC",
        ■ "asset_alt_name": "MATIC",
        ■ "amount": "0.9663700000"
      },
      ■ "fiat": [REDACTED]{
        ■ "asset_name": "USD",
        ■ "asset_alt_name": "USD",
        ■ "amount": "0.5475"
      }
    }
  },
  ■ "is_owned_by_user": true,
  ■ "custody": "Kraken",
  ■ "on_sale": false,
  ■ "on_sale_status": "NotListed",
  ■ "price": [REDACTED]{
    ■ "native": [REDACTED]{
      ■ "asset_name": "MATIC",
      ■ "asset_alt_name": "MATIC",
      ■ "amount": "0.0000000000"
    },
    ■ "fiat": [REDACTED]{
      ■ "asset_name": "USD",
      ■ "asset_alt_name": "USD",
      ■ "amount": "0.0000"
    }
  },
  ■ "buy_now": null,
  ■ "last_auction_sale": null,
  ■ "last_sale_or_mint": null,
  ■ "best_offer": null,
  ■ "token": [REDACTED]{
    ■ "blockchain": [REDACTED]{
      ■ "id": "Polygon",
      ■ "asset": "MATIC"
    },
    ■ "id": "3210",
```



```

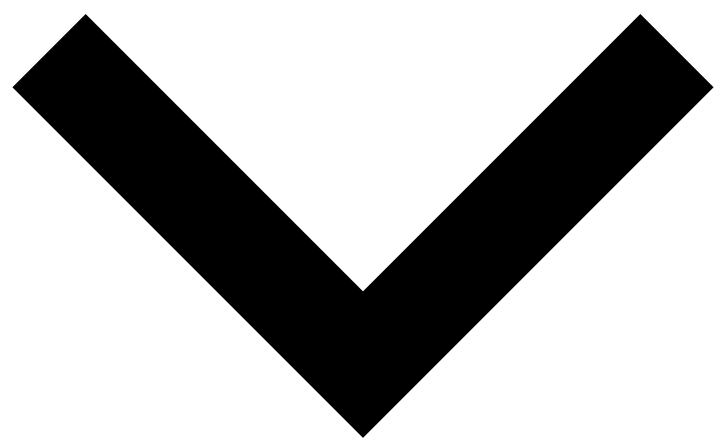
      ■ "address":
        "0x1c09f530950513666b16da672d5f010fdb66d9da",
      ■ "symbol": "WRGRIDPASS",
      ■ "standard": "ERC-721",
      ■ "owner":
        "0xfc3e484b7da631b40c3b5495023d161b7ab8cb51"
    },
    ■ "rarity_rank": null
  }
],
○ "total": 2,
○ "total_value": {
  ■ "asset_name": "USD",
  ■ "asset_alt_name": "USD",
  ■ "amount": "20.7399"
}
}
}

```

## listNftTransactions

Operation ListNftTransactions returns list of NFT transactions for a specific user.

**Authorizations:**



API-Key

**Request Body schema: application/x-www-form-urlencoded**

|          |                                                 |
|----------|-------------------------------------------------|
| end_time | integer or null <uint32> >= 0<br>string or null |
| nft_id   | Filter by NFT id                                |
| nonce    | integer <int32> (nonce)                         |
| required | Nonce used in construction of API-Sign header   |
| otp      | string or null                                  |
| page     | integer <uint16> [ 1 .. 65536 ]                 |

|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
|            | Default: 1                                                                           |
|            | Page number with query results starting from one                                     |
| per_page   | integer <uint16> [ 1 .. 1000 ]<br>Default: 5                                         |
| sort       | string<br>Default: "desc"<br>Enum: "desc" "asc"                                      |
| start_time | integer or null <uint32> >= 0                                                        |
|            | string or null                                                                       |
| type       | Enum: "Deposit" "Withdrawal" "Purchase" "Sale" "Claim"<br>Filter by transaction type |

## Responses



**200**

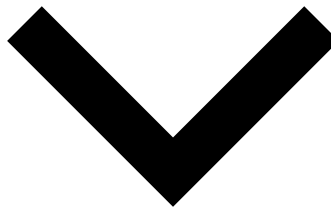
Response

### Response Schema: application/json

|                   |                                               |
|-------------------|-----------------------------------------------|
| error<br>required | Array of<br>strings (error)<br>object or null |
|-------------------|-----------------------------------------------|



result



post/private/NftTransactions

Production Server

<https://api.kraken.com/0/private/NftTransactions>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/NftTransactions" \
-H 'API-Key: <YOUR-API-KEY>' \
-H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
-H 'Content-Type: application/x-www-form-urlencoded; charset=' \
--data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

```
{
  "error": [ ],
  "result": {
    "items": [
      {
        "id": "CNLEPY2-KTHFR-ONLNFS",
        "quote_id": null,
        "timestamp": 1697628903,
        "nft_id": "NT4GUCU-SIJE2-YSQQG2",
        "nft_name": "Williams Racing Collectibles+ Grid Pass",
        "collection_id": "NCQNAB0-XYCA7-JMMSDF",
        "collection_name": "Williams Racing Collectibles+ Grid Pass",
        "creator_names": [ ],
        "nft_thumbnail_url": "",
        "nft_image": {
          "kind": "Main",
          "media": {
            "url": "https://assets-dynamic.kraken.com/media1/b51a13042bf7a4a6beaf0bbb17ca4bee10999370aa811fdb6",
            "media_type": "image/png",
            "size": 2152243
          }
        },
        "nft_media": [
          {
            "kind": "Main",
            "media": {
              "url": "https://assets-dynamic.kraken.com/media1/b51a13042bf7a4a6beaf0bbb17ca4bee10999370aa811",
              "media_type": "image/png",
              "size": 2152243
            }
          }
        ]
      }
    ]
  }
}
```

```

    ■ [REDACTED]{
      ■ "kind": "Video",
      ■ "media": [REDACTED]{
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1/177f9cd50f4b6ec154d609aa5862dc608f57b0",
        ■ "media_type": "video/mp4",
        ■ "size": 243316230
      }
    },
    ■ "blockchain": [REDACTED]{
      ■ "id": "Polygon",
      ■ "asset": "MATIC"
    },
    ■ "type_": "Claim",
    ■ "token_count": 1,
    ■ "price": null,
    ■ "fee": null,
    ■ "creator_fee": null,
    ■ "status": "Complete"
  },
  ■ [REDACTED]{
    ■ "id": "TNFTQLT-UBAG7-Y4A3YZ",
    ■ "quote_id": "QN766E0-UKJEN-R3X4A3",
    ■ "timestamp": 1658139670,
    ■ "nft_id": "NT7EYX2-D7QVC-S7JDLE",
    ■ "nft_name": "Castle Kid #7423",
    ■ "collection_id": "NC5M0SV-7KZZI-0NSSBR",
    ■ "collection_name": "Castle Kid By Colin Tilley",
    ■ "creator_names": [ ],
    ■ "nft_thumbnail_url": "",
    ■ "nft_image": [REDACTED]{
      ■ "kind": "Main",
      ■ "media": [REDACTED]{
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1%2Fb05a8c15a65e94d78c0d7d1458bda7600dd0e2d7",
        ■ "media_type": "image/jpeg",
        ■ "size": 290534
      }
    },
    ■ "nft_media": [REDACTED][
      ■ [REDACTED]{
        ■ "kind": "Main",

```

```

      ■ "media": {
        ■ "url": "https://assets-
          dynamic.kraken.com/
          media1%2Fb05a8c15a65e94d78c0d7d1458bda7600dd0
        ■ "media_type": "image/jpeg",
        ■ "size": 290534
      }
    },
    ■ "blockchain": {
      ■ "id": "Ethereum",
      ■ "asset": "ETH"
    },
    ■ "type_": "Purchase",
    ■ "token_count": 1,
    ■ "price": {
      ■ "asset_name": "ETH",
      ■ "asset_alt_name": "ETH",
      ■ "amount": "0.0100000000"
    },
    ■ "fee": null,
    ■ "creator_fee": null,
    ■ "status": "Complete"
  }
},
○ "total": 2
}
}

```

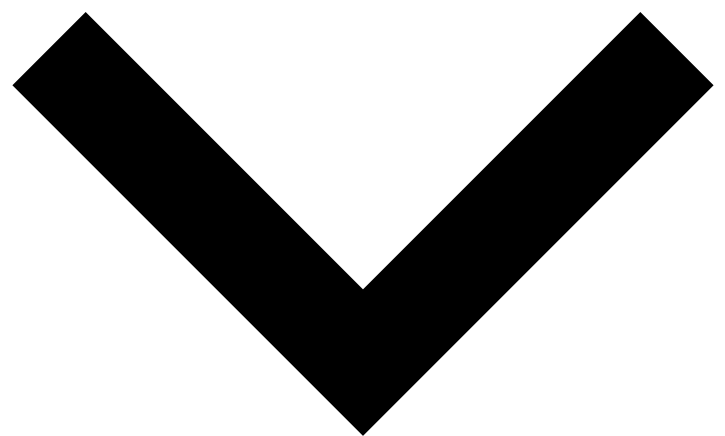
# Funding

## Get Deposit Methods

Retrieve methods available for depositing a particular asset.

**API Key Permissions Required:** Funds permissions - Query and Funds permissions - Deposit

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|                                                        |                         |
|--------------------------------------------------------|-------------------------|
|                                                        | integer <int32> (nonce) |
| nonce                                                  |                         |
| required Nonce used in construction of API-Sign header |                         |
|                                                        | string                  |
| asset                                                  |                         |
| required Asset being deposited                         |                         |



string  
Default: "currency"  
aclass  
Asset class being deposited (optional)

## Responses



**200**

Deposit methods retrieved.

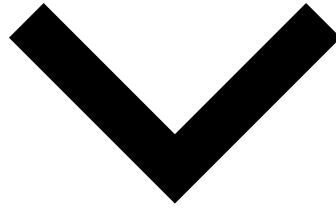
### Response Schema: application/json



Array of  
objects (depositMethod)

result  
error

Array of strings (error)



post/private/DepositMethods

Production Server

<https://api.kraken.com/0/private/DepositMethods>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/DepositMethods" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "asset=XBT"
```

## Response samples

- 200

Content type  
application/json

Copy Expand all

Collapse all

{

- "error": [ ],
- "result": [
  - {
    - "method": "Bitcoin",
    - "limit": false,

```

      ■ "fee": "0.00000000000",
      ■ "gen-address": true,
      ■ "minimum": "0.00010000"
    },
    ○ [REDACTED]{
      ■ "method": "Bitcoin Lightning",
      ■ "limit": false,
      ■ "fee": "0.000000000",
      ■ "minimum": "0.00010000"
    }
  ]
}

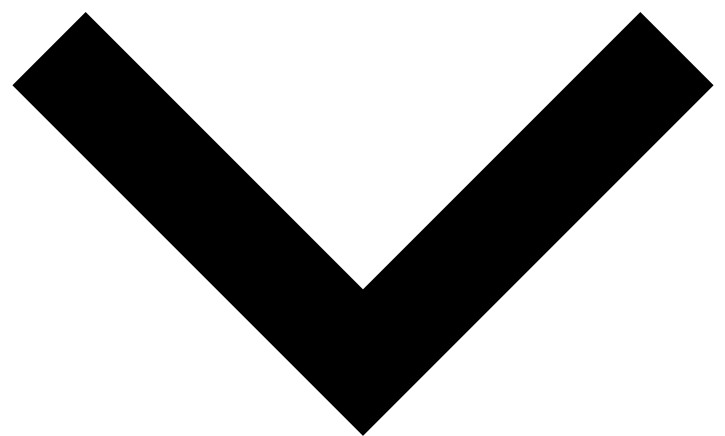
```

## Get Deposit Addresses

Retrieve (or generate a new) deposit addresses for a particular asset and method.

**API Key Permissions Required:** Funds permissions - Query

**Authorizations:**

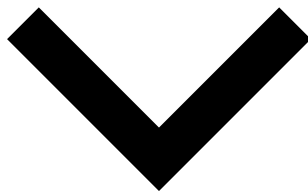


(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|                   |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| nonce<br>required | integer <int32> (nonce)<br><br>Nonce used in construction of API-Sign<br>header |
| asset<br>required | string<br><br>Asset being deposited                                             |

|                    |                                             |
|--------------------|---------------------------------------------|
| method<br>required | string<br>Name of the deposit method        |
|                    | boolean<br>Default: false                   |
| new                | Whether or not to generate a new<br>address |



string (string) or integer (integer) or  
number (number)

Amount you wish to deposit (only  
required for method=Bitcoin  
Lightning)

amount

## Responses

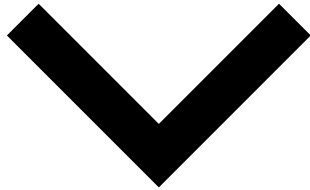


**200**

Deposit addresses retrieved.

**Response Schema: application/json**

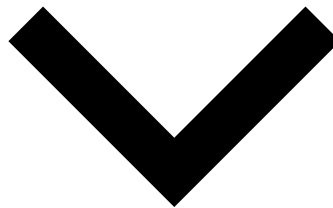
Array of  
objects (depositAddress)



result

error

Array of strings (error)



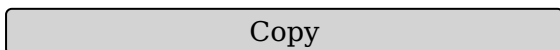
post/private/DepositAddresses

Production Server

<https://api.kraken.com/0/private/DepositAddresses>

## Request samples

- cURL
- Python



```
curl -X "POST" "https://api.kraken.com/0/private/DepositAddresses" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "asset=XBT" \
  --data-urlencode "method=Bitcoin"
```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

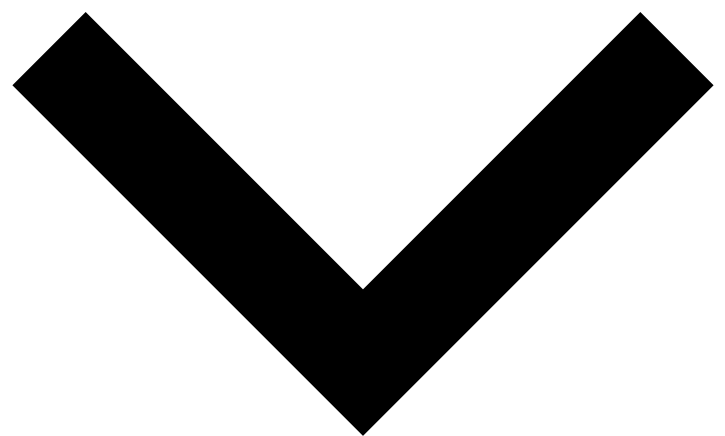
```
{
  "error": [ ],
  "result": [
    {
      "address": "2N9fRkx5JTWXWHmXzZtvhQsufvoYRMq9ExV",
      "expiretm": "0",
      "new": true
    },
    {
      "address": "2NCpXUCEYr8ur9WXM1tAjZSem2w3aQeTcAo",
      "expiretm": "0",
      "new": true
    },
    {
      "address": "2Myd4eaAW96ojk38A2uDK4FbioCayvkEgVq",
      "expiretm": "0"
    },
    {
      "address": "rLHzPsX3oXdzU2qP17kHCH2G4csZv1rAJh",
      "expiretm": "0",
      "new": true,
      "tag": "1361101127"
    },
    {
      "address": "krakenkraken",
      "expiretm": "0",
      "memo": "4150096490"
    }
  ]
}
```

## Get Status of Recent Deposits

Retrieve information about recent deposits. Results are sorted by recency, use the cursor parameter to iterate through list of deposits (page size equal to value of limit) from newest to oldest.

**API Key Permissions Required:** Funds permissions - Query

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|          |                                               |
|----------|-----------------------------------------------|
| nonce    | integer <int32> (nonce)                       |
| required | Nonce used in construction of API-Sign header |
| asset    | string                                        |
|          | Filter for specific asset being deposited     |
| aclass   | string                                        |
|          | Default: "currency"                           |



|        |                                                                                        |
|--------|----------------------------------------------------------------------------------------|
|        | Filter for specific asset class being deposited                                        |
|        | string                                                                                 |
| method | Filter for specific name of deposit method                                             |
|        | string                                                                                 |
| start  | Start timestamp, deposits created strictly before will not be included in the response |
|        | string                                                                                 |
| end    | End timestamp, deposits created strictly after will be not be included in the response |



|        |                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------|
|        | boolean or string<br>Default: false                                                                   |
|        | true/false to enable/disable paginated response (boolean) or cursor for next page of results (string) |
| cursor |                                                                                                       |
|        | integer<br>Default: 25                                                                                |
| limit  | Number of results to include per page                                                                 |

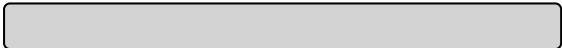
Responses



200

Recent deposits retrieved.

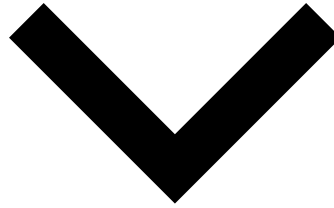
Response Schema: application/json



deposit (object) or object

result  
error

Array of strings (error)



post/private/DepositStatus

Production Server

<https://api.kraken.com/0/private/DepositStatus>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/DepositStatus" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "asset=XBT" \
  --data-urlencode "method=Bitcoin"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

```
{
  • "error": [ ],
  • "result": [
    • {
      ■ "method": "Bitcoin",
```

```

    ■ "aclass": "currency",
    ■ "asset": "XXBT",
    ■ "refid": "FTQcuak-V6Za8qrWnhzTx67yYHz8Tg",
    ■ "txid":
      "6544b41b607d8b2512baf801755a3a87b6890eacdb451be8a94059fb11f0",
    ■ "info": "2Myd4eaAW96ojk38A2uDK4FbioCayvkEgVq",
    ■ "amount": "0.78125000",
    ■ "fee": "0.000000000000",
    ■ "time": 1688992722,
    ■ "status": "Success",
    ■ "status-prop": "return"
  },
  {
    ■ "method": "Ether (Hex)",
    ■ "aclass": "currency",
    ■ "asset": "XETH",
    ■ "refid": "FTQcuak-V6Za8qrPnhsTx47yYLz8Tg",
    ■ "txid":
      "0x339c505eba389bf2c6bebb982cc30c6d82d0bd6a37521fa292890b6b18",
    ■ "info":
      "0xca210f4121dc891c9154026c3ae3d1832a005048",
    ■ "amount": "0.1383862742",
    ■ "time": 1688992722,
    ■ "status": "Settled",
    ■ "status-prop": "onhold",
    ■ "originators": [
      ■ "0x70b6343b104785574db2c1474b3acb3937ab5de7346a5b857a78ee",
      ■ "0x5b32f6f792904a446226b17f607850d0f2f7533cdc35845bfe432b"
    ]
  }
]
}

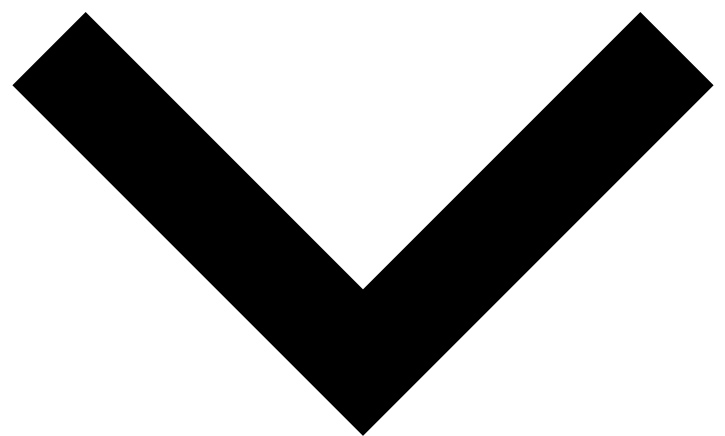
```

## Get Withdrawal Methods

Retrieve a list of withdrawal methods available for the user.

**API Key Permissions Required:** Funds permissions - Query and Funds permissions - Withdraw

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

- integer <int32> (nonce)  
nonce  
required Nonce used in construction of API - Sign header
- string  
asset  
Filter methods for specific asset

string  
Default: "currency"  
aclass Filter methods for specific asset class  
string  
network Filter methods for specific network

## Responses



**200**

Withdrawal methods retrieved.

### Response Schema: application/json

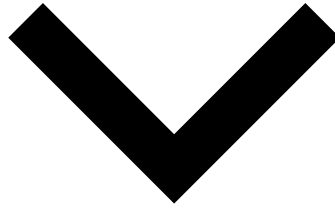


Array of  
objects (withdrawalMethods)

Withdrawal Methods

result  
error

Array of strings (error)



post/private/WithdrawMethods

Production Server

<https://api.kraken.com/0/private/WithdrawMethods>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/WithdrawMethods" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "asset=XXBT"
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

```
{
  "error": [ ],
  "result": [
    {
      "asset": "XXBT",
      "method": "Bitcoin",
```

```

      ■ "network": "Bitcoin",
      ■ "minimum": "0.0004"
    },
    ○ [REDACTED] {
      ■ "asset": "XXBT",
      ■ "method": "Bitcoin Lightning",
      ■ "network": "Lightning",
      ■ "minimum": "0.00001"
    }
  ]
}

```

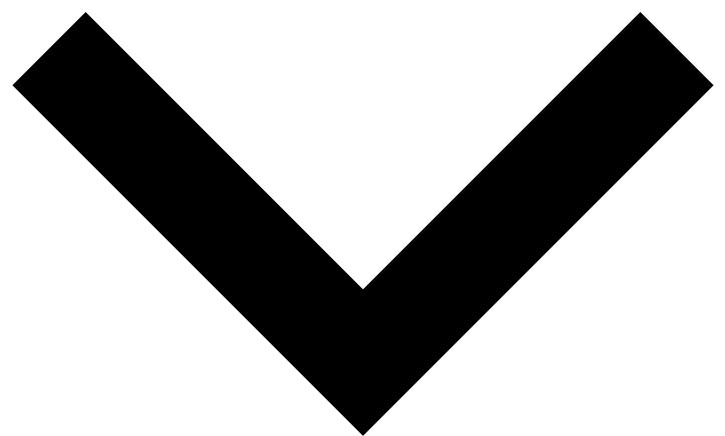
## Get Withdrawal Addresses

Retrieve a list of withdrawal addresses available for the user.

**API Key Permissions Required:** Funds permissions - Query and Funds permissions - Withdraw



**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

- integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header
- string  
asset  
Filter addresses for specific asset

|          |                                                                                                                                                                   |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | string<br>Default: "currency"                                                                                                                                     |
| aclass   | Filter addresses for specific asset class                                                                                                                         |
|          | string                                                                                                                                                            |
| method   | Filter addresses for specific method                                                                                                                              |
|          | string                                                                                                                                                            |
| key      | Find address for by withdrawal key name, as set up on your account                                                                                                |
|          | boolean                                                                                                                                                           |
| verified | Filter by verification status of the withdrawal address. Withdrawal addresses successfully completing email confirmation will have a verification status of true. |

## Responses



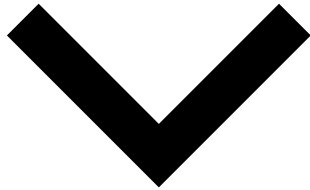
**200**

Withdrawal addresses retrieved.

**Response Schema: application/json**

Array of  
objects (withdrawalAddresses)

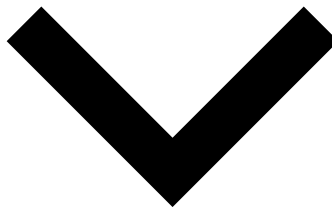
Withdrawal Addresses



result

error

Array of strings (error)



post/private/WithdrawAddresses

Production Server

<https://api.kraken.com/0/private/WithdrawAddresses>

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/WithdrawAddresses" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>" \
  --data-urlencode "asset=XBT"
```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
| {            |            |

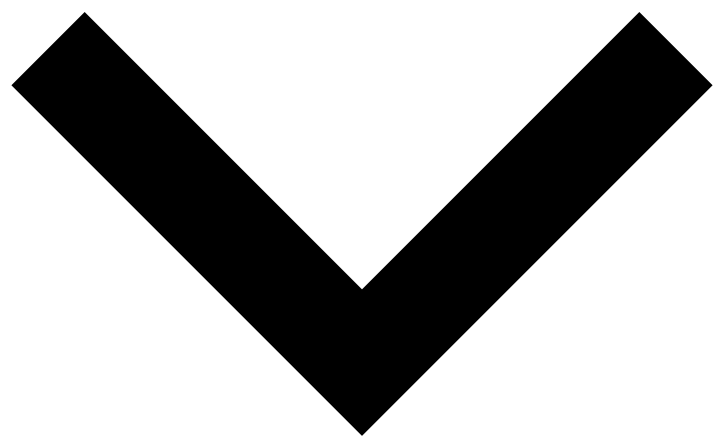
```
• "error": [ ],
• "result": [
  ◦ {
    ■ "address":
      "bc1qxdsh4sdd29h6ldehz0se5c61asq8cgwyjf2y3z",
    ■ "asset": "XBT",
    ■ "method": "Bitcoin",
    ■ "key": "btc-wallet-1",
    ■ "verified": true
  }
]
```

## Get Withdrawal Information

Retrieve fee information about potential withdrawals for a particular asset, key and amount.

**API Key Permissions Required:** Funds permissions - Query and Funds permissions - Withdraw

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

string  
asset  
required Asset being withdrawn

string  
key  
required Withdrawal key name, as set up on your account

string  
amount  
required Amount to be withdrawn

## Responses



**200**

Withdrawal information retrieved.

### Response Schema: application/json



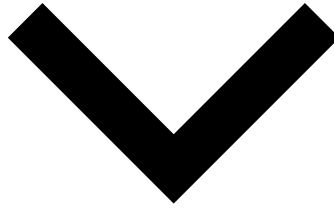
object (withdrawalInfo)

Withdrawal Info

result

error

Array of  
strings (error)



post/private/WithdrawInfo

Production Server

<https://api.kraken.com/0/private/WithdrawInfo>

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/WithdrawInfo', {
    "nonce": str(int(1000*time.time())),
    "asset": "XBT",
    "key": "btc_testnet_with1",
    "amount": 0.725
```

```
}, api_key, api_sec)

print(resp.json())
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

Collapse all

{

```
• "error": [ ],
• "result": {
  ◦ "method": "Bitcoin",
  ◦ "limit": "332.00956139",
  ◦ "amount": "0.72480000",
  ◦ "fee": "0.00020000"
}
}
```

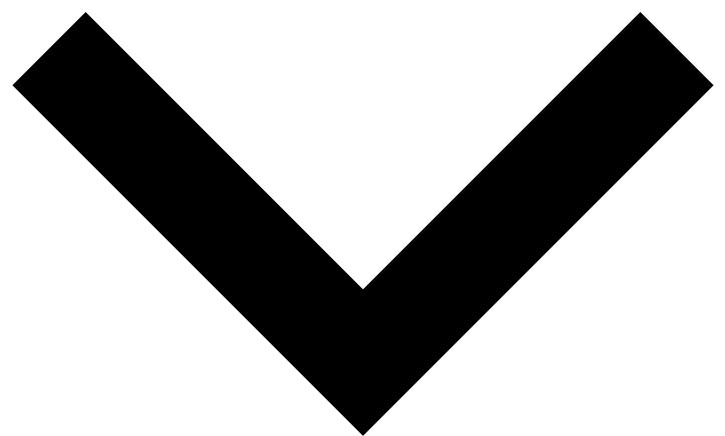
## Withdraw Funds

Make a withdrawal request.

**API Key Permissions Required:** Funds permissions - Withdraw



**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

string  
asset  
required Asset being withdrawn

string  
key  
required Withdrawal key name, as set up on your account

string

address Optional, crypto address that can be used to confirm address matches key (will return Invalid withdrawal address error if different)

string

amount required Amount to be withdrawn

string

max\_fee Optional, if the processed withdrawal fee is higher than max\_fee, withdrawal will fail with EFunding:Max fee exceeded

## Responses

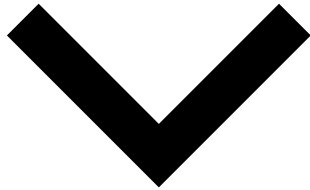


**200**

Withdrawal created.

**Response Schema: application/json**

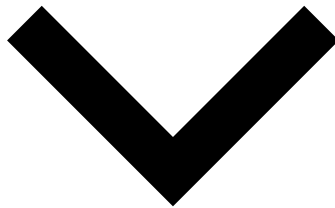
object



result

error

Array of  
strings (error)



post/private/Withdraw

Production Server

<https://api.kraken.com/0/private/Withdraw>

## Request samples

- Python

```
import time
import os
import requests
```

```
# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
```

```

api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/Withdraw', {
    "nonce": str(int(1000*time.time())),
    "asset": "XBT",
    "key": "btc_testnet_with1",
    "address": "bc1kar0ssrr7xf3vy5l6d3lydnwkre5og2zz3f5ldq",
    "amount": 0.725
}, api_key, api_sec)

print(resp.json())

```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

```

{
  • "error": [ ],
  • "result": {
    ◦ "refid": "FTQcuak-V6Za8qrWnhzTx67yYHz8Tg"
  }
}

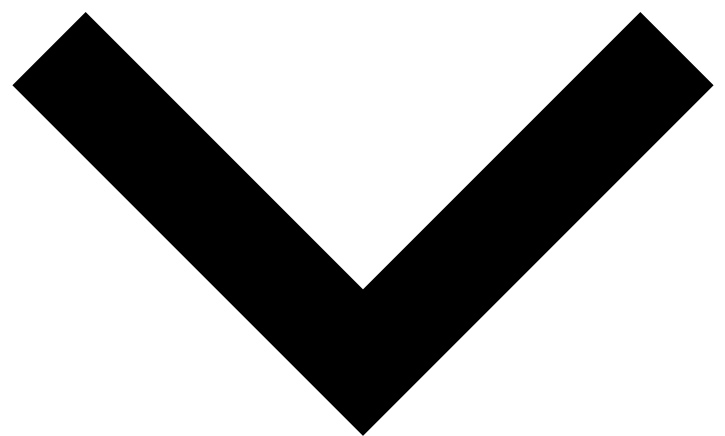
```

## Get Status of Recent Withdrawals

Retrieve information about recent withdrawals. Results are sorted by recency, use the cursor parameter to iterate through list of withdrawals (page size equal to value of limit) from newest to oldest.

**API Key Permissions Required:** Funds permissions - Withdraw or Data  
- Query ledger entries

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|          |                                               |
|----------|-----------------------------------------------|
| nonce    | integer <int32> (nonce)                       |
| required | Nonce used in construction of API-Sign header |
| asset    | string                                        |
|          | Filter for specific asset being withdrawn     |
| aclass   | string                                        |
|          | Default: "currency"                           |

|        |                                                                                           |
|--------|-------------------------------------------------------------------------------------------|
|        | Filter for specific asset class being withdrawn                                           |
|        | string                                                                                    |
| method | Filter for specific name of withdrawal method                                             |
|        | string                                                                                    |
| start  | Start timestamp, withdrawals created strictly before will not be included in the response |
|        | string                                                                                    |
| end    | End timestamp, withdrawals created strictly after will be not be included in the response |
|        |                                                                                           |



|        |                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------|
|        | boolean or string                                                                                                    |
|        | true/false to enable/disable paginated response (boolean) or cursor for next page of results (string), default false |
| cursor |                                                                                                                      |
|        | integer                                                                                                              |
| limit  | Default: 500                                                                                                         |
|        | Number of results to include per page                                                                                |

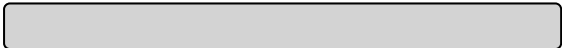
Responses



200

Recent withdrawals retrieved.

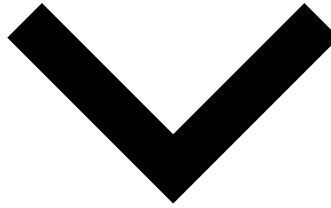
Response Schema: application/json



Array of  
objects (Withdrawal)

result  
error

Array of strings (error)



post/private/WithdrawStatus

Production Server

<https://api.kraken.com/0/private/WithdrawStatus>

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/WithdrawStatus', {
    "nonce": str(int(1000*time.time()))
}, api_key, api_sec)

print(resp.json())
```



## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

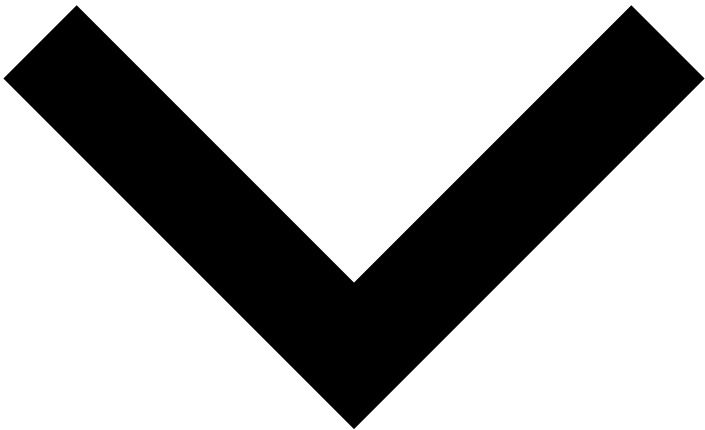
```
{
  • "error": [ ],
  • "result": [
    ◦ {
      ■ "method": "Bitcoin",
      ■ "aclass": "currency",
      ■ "asset": "XXBT",
      ■ "refid": "FTQcuak-V6Za8qrWnhzTx67yYHz8Tg",
      ■ "txid":
        "29323ce235cee8dae22503caba7....8ad3a506879a03b1e87992923d804",
      ■ "info": "bclqm32pq....3ewt0j37s2g",
      ■ "amount": "0.72485000",
      ■ "fee": "0.00020000",
      ■ "time": 1688014586,
      ■ "status": "Pending",
      ■ "key": "btc-wallet-1"
    },
    ◦ {
      ■ "method": "Bitcoin",
      ■ "aclass": "currency",
      ■ "asset": "XXBT",
      ■ "refid": "FTQcuak-V6Za8qrPnhsTx47yYLz8Tg",
      ■ "txid":
        "29323ce212ceb2daf81255cbea8a5...ad7a626471e05e1f82929501e829",
      ■ "info": "bclqa35ls....3egf0872h3w",
      ■ "amount": "0.72485000",
      ■ "fee": "0.00020000",
      ■ "time": 1688015423,
      ■ "status": "Failure",
      ■ "status-prop": "canceled",
      ■ "key": "btc-wallet-2"
    }
  ]
}
```

## Request Withdrawal Cancelation

Cancel a recently requested withdrawal, if it has not already been successfully processed.

**API Key Permissions Required:** Funds permissions - Withdraw, unless withdrawal is a WalletTransfer, then no permissions are required.

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

string  
asset  
required Asset being withdrawn

string  
refid  
required Withdrawal reference ID

## Responses

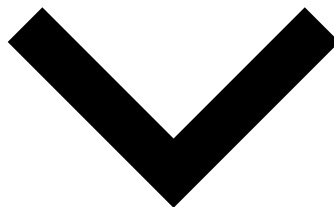


**200**

Withdrawal cancellation requested.

### Response Schema: application/json

boolean  
result Whether cancellation was successful or not.  
error Array of strings (error)



post/private/WithdrawCancel

Production Server

https://api.kraken.com/0/private/WithdrawCancel

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/WithdrawCancel', {
    "nonce": str(int(1000*time.time())),
    "asset": "XBT",
    "refid": "FTQcuak-V6Za8qrWnhzTx67yYHz8Tg"
}, api_key, api_sec)

print(resp.json())
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

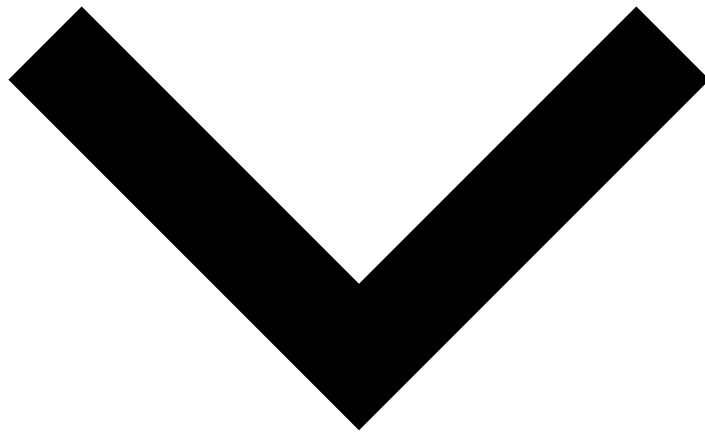
Collapse all

```
{
  • "error": [ ],
  • "result": true
}
```

# Request Wallet Transfer

Transfer from a Kraken spot wallet to a Kraken Futures wallet. Note that a transfer in the other direction must be requested via the Kraken Futures API endpoint for [withdrawals to Spot wallets](#).

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|          |                                               |
|----------|-----------------------------------------------|
| nonce    | integer <int32> (nonce)                       |
| required | Nonce used in construction of API-Sign header |
| asset    | string                                        |

required Asset to transfer (asset ID or altname)  
string  
from Value: "Spot Wallet"  
required Source wallet  
string  
to Value: "Futures Wallet"  
required Destination wallet  
string  
amount  
required Amount to transfer

## Responses



**200**

Transfer created.

**Response Schema: application/json**

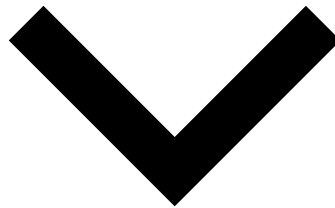
object



result

error

Array of  
strings (error)



post/private/WalletTransfer

Production Server

<https://api.kraken.com/0/private/WalletTransfer>

## Request samples

- Python

Copy

```
import time
import os
import requests
```

```
# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
```

```

api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/WalletTransfer', {
    "nonce": str(int(1000*time.time())),
    "asset": "ETH",
    "amount": 0.100,
    "from": "Spot Wallet",
    "to": "Futures Wallet"
}, api_key, api_sec)

print(resp.json())

```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

```

{
  "error": [ ],
  "result": {
    "refid": "FTQcuak-V6Za8qrWnhzTx67yYHz8Tg"
  }
}

```

## Subaccounts

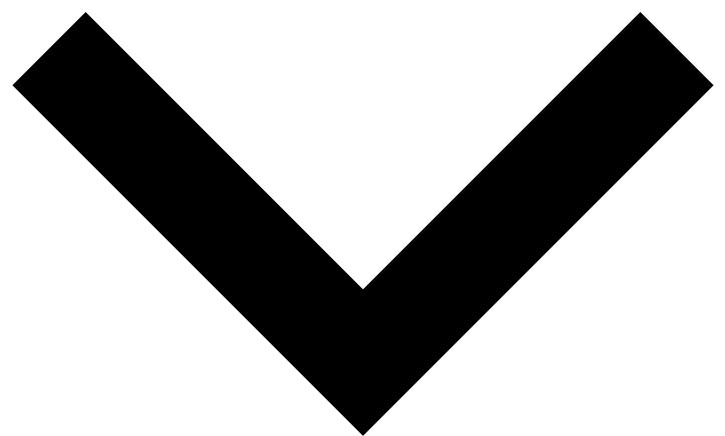
Subaccounts are currently only available to institutional clients. Please contact your Account Manager for more details.

### Create Subaccount

Create a trading subaccount.



**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|          |                                               |
|----------|-----------------------------------------------|
| nonce    | integer <int32> (nonce)                       |
| required | Nonce used in construction of API-Sign header |
| username | string                                        |
| required | Username for the subaccount                   |
| email    | string                                        |
| required | Email address for the subaccount              |

# Responses



200

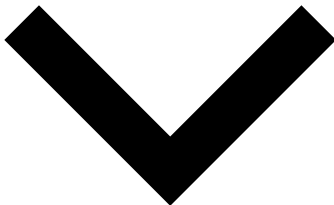
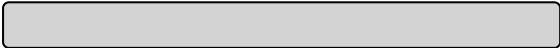
Subaccount created.

## Response Schema: application/json

boolean

result Whether subaccount creation was successful or not.

error Array of strings (error)



post/private/CreateSubaccount

Production Server

<https://api.kraken.com/0/private/CreateSubaccount>

## Request samples

- Python

Copy

```
import time
import os
import requests

# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/CreateSubaccount', {
    "nonce": str(int(1000*time.time())),
    "username": "abc123",
    "email": "abc123@gmail.com"
}, api_key, api_sec)

print(resp.json())
```

## Response samples

- 200

Content type  
application/json

Copy

Expand all

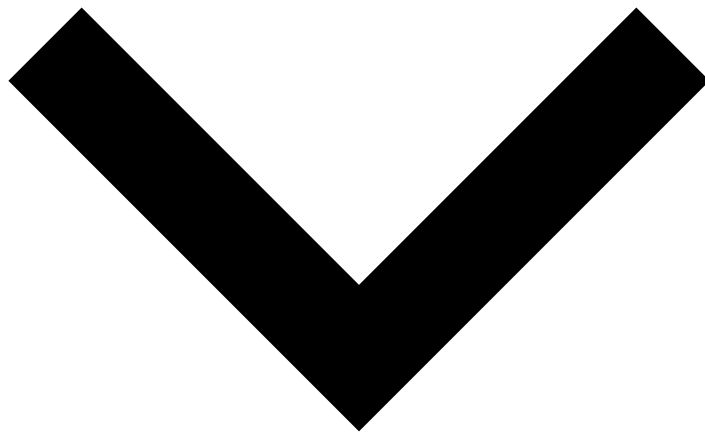
Collapse all

```
{
  • "error": [ ],
  • "result": true
}
```

# Account Transfer

Transfer funds to and from master and subaccounts. **Note:** AccountTransfer must be called by the master account.

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

|          |                                                 |
|----------|-------------------------------------------------|
| nonce    | integer <int32> (nonce)                         |
| required | Nonce used in construction of API - Sign header |
| asset    | string                                          |
| required |                                                 |

Asset being transferred

string  
amount  
required Amount of asset to transfer

string  
from  
required IIBAN of the source account

string  
to  
required IIBAN of the destination account

## Responses

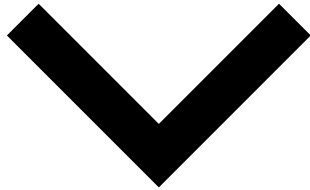


**200**

Funds transferred between accounts.

**Response Schema: application/json**

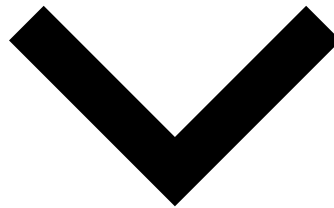
object



result

error

Array of  
strings (error)



post/private/AccountTransfer

Production Server

<https://api.kraken.com/0/private/AccountTransfer>

## Request samples

- Python

```
import time
import os
import requests
```

```
# Read Kraken API key and secret stored in environment variables
api_url = "https://api.kraken.com"
api_key = os.environ['API_KEY_KRAKEN']
```

```

api_sec = os.environ['API_SEC_KRAKEN']

# Attaches auth headers and returns results of a POST request
def kraken_request(uri_path, data, api_key, api_sec):
    headers = {}
    headers['API-Key'] = api_key
    # get_kraken_signature() as defined in the 'Authentication' section
    headers['API-Sign'] = get_kraken_signature(uri_path, data, api_sec)
    req = requests.post((api_url + uri_path), headers=headers, data=data)
    return req

# Construct the request and print the result
resp = kraken_request('/0/private/AccountTransfer', {
    "nonce": str(int(1000*time.time())),
    "asset": "XBT",
    "amount": 1.0,
    "from": "ABCD 1234 EFGH 5678"
    "to": "IJKL 0987 MNOP 6543"
}, api_key, api_sec)

print(resp.json())

```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

```

{
  "error": [ ],
  "result": {
    "transfer_id": "TOH3AS2-LPCWR8-JDQGEU",
    "status": "complete"
  }
}

```

## Earn

The earn API allows interacting with all of Kraken's yield generating products. It replaces the old /staking part of the API.

The different available earn products are represented by earn strategies. This corresponds to the legacy Staking/Assets. Stake/Unstake are replaced by Allocate/Deallocate.

## Overview of the available endpoints under /Earn:

- Strategies - list all earn strategies for which you are eligible or have a balance.
- Allocations - lists the balance in your earn account for each strategy. Requires the Query Funds API key permission.
- Allocate/Deallocate - allocate/deallocate to an earn strategy through an async operation. Requires the Earn Funds API key permission.
- AllocateStatus/DeallocateStatus - verifies the state of the last allocation/deallocation. Requires the Earn Funds or Query Funds API key permission.

## Example usage:

### Determine which funds are earning rewards:

1. Call Strategies to obtain information about the relevant strategy. The lock\_type field shows whether bonding/unbonding funds are earning yield. The relevant fields are bonding\_rewards/unbonding\_rewards.
2. Call Allocations for the relevant strategy. From the previous step, for strategies where bonding/unbonding does not earn yield, subtract these balances from amount\_allocated.total to determine which balances are currently earning.

### Get allocatable balance:

Call /0/private/BalanceEx, subtract hold\_trading amount. Remaining balance is available for allocation to a strategy.

### Geo restrictions:

Some earn strategies are not available in all geographic regions. Strategies will return only strategies available to the caller.

## Allocate Earn Funds

Allocate funds to the Strategy.

Requires the Earn Funds API key permission. The amount must always be defined.

This method is asynchronous. A couple of preflight checks are performed synchronously on behalf of the method before it is dispatched further. The client is required to poll the result using the /0/private/Earn/AllocateStatus endpoint.

There can be only one (de)allocation request in progress for given user and strategy at any time. While the operation is in progress:

1. pending attribute in /Earn/Allocations response for the strategy indicates that funds are being allocated,

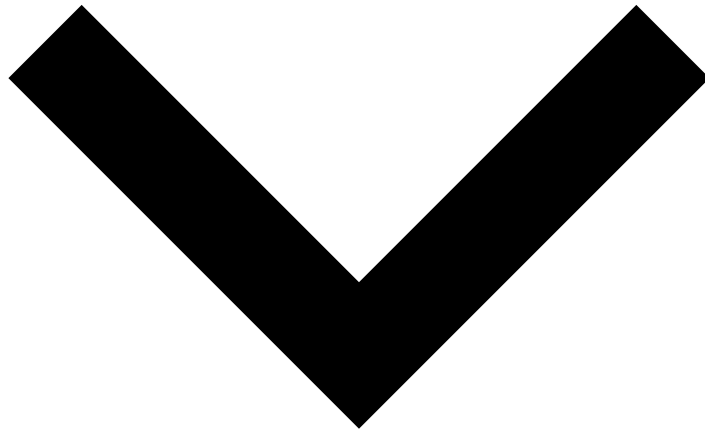


2. pending attribute in /Earn/AllocateStatus response will be true.

Following specific errors within Earnings class can be returned by this method:

- Minimum allocation: EEarnings:Below min:(De)allocation operation amount less than minimum
- Allocation in progress: EEarnings:Busy:Another (de)allocation for the same strategy is in progress
- Service temporarily unavailable: EEarnings:Busy. Try again in a few minutes.
- User tier verification: EEarnings:Permission denied:The user's tier is not high enough
- Strategy not found: EGeneral:Invalid arguments:Invalid strategy ID

**Authorizations:**

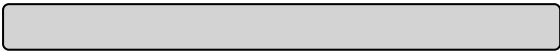


API-Key

**Request Body schema: application/json**

|             |                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------|
| nonce       | integer <int32> (nonce)                                                                       |
| required    | Nonce used in construction of API-Sign header                                                 |
| amount      | string                                                                                        |
| required    | The amount to allocate.                                                                       |
| strategy_id | string                                                                                        |
| required    | A unique identifier of the chosen earn strategy, as returned from /0/private/Earn/Strategies. |

**Responses**

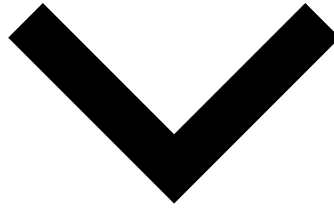


**200**

Response

**Response Schema: application/json**

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| error  | Array of strings (error)<br>boolean or null                                     |
| result | Will return true when the operation is successful, null when an error occurred. |



post/private/Earn/Allocate

Production Server

https://api.kraken.com/0/private/Earn/Allocate

## Request samples

- Payload

Content type  
application/json

[Copy](#)

```
{
```

- "amount": "4.3",
- "nonce": 30295839,
- "strategy\_id": "ESRFU03-Q62XD-WI0IL7"

```
}
```

## Response samples

- 200

Content type  
application/json

[Copy](#) [Expand all](#)

[Collapse all](#)

```
{
```

- "error": [ ],
- "result": true

```
}
```

# Deallocate Earn Funds

Deallocate funds from a strategy.

Requires the Earn Funds API key permission. The amount must always be defined.

This method is asynchronous. A couple of preflight checks are performed synchronously on behalf of the method before it is dispatched further. If the method returns HTTP 202 code, the client is required to poll the result using the /Earn/DeallocateStatus endpoint.

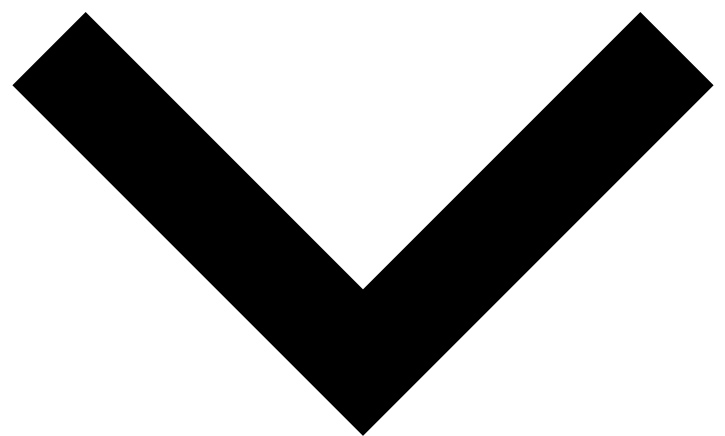
There can be only one (de)allocation request in progress for given user and strategy. While the operation is in progress:

1. pending attribute in Allocations response for the strategy will hold the amount that is being deallocated (negative amount)
2. pending attribute in DeallocateStatus response will be true.

Following specific errors within Earnings class can be returned by this method:

- Minimum allocation: EEarnings:Below min:(De)allocation operation amount less than minimum allowed
- Allocation in progress: EEarnings:Busy:Another (de)allocation for the same strategy is in progress
- Strategy not found: EGeneral:Invalid arguments:Invalid strategy ID

**Authorizations:**

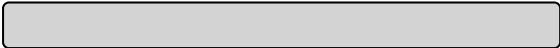


API-Key

**Request Body schema: application/json**

|             |                                                   |
|-------------|---------------------------------------------------|
| nonce       | integer <int32> (nonce)                           |
| required    | Nonce used in construction of API-Sign header     |
| amount      | string                                            |
| required    | The amount to deallocate. This field is required. |
| strategy_id | string                                            |
| required    | A unique identifier per earn strategy.            |

Responses

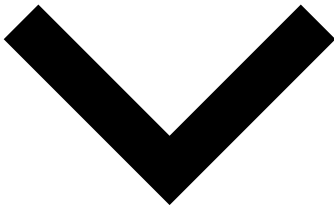


200

Response

Response Schema: application/json

- error Array of strings (error)  
boolean or null
- result Will return true when the operation is successful, null when an error occurred.



post/private/Earn/Deallocate

Production Server

<https://api.kraken.com/0/private/Earn/Deallocate>

## Request samples

- Payload

Content type  
application/json

|      |
|------|
| Copy |
|      |

```
{  
  • "amount": "4.3",  
  • "nonce": 30295839,  
  • "strategy_id": "ESRFU03-Q62XD-WI0IL7"  
}
```

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
|              |            |

```
{  
  • "error": [ ],  
  • "result": true  
}
```

## Get Allocation Status

Get the status of the last allocation request.

Requires either the Earn Funds or Query Funds API key permission.

(De)allocation operations are asynchronous and this endpoint allows client to retrieve the status of the last dispatched operation. There can be only one (de)allocation request in progress for given user and strategy.

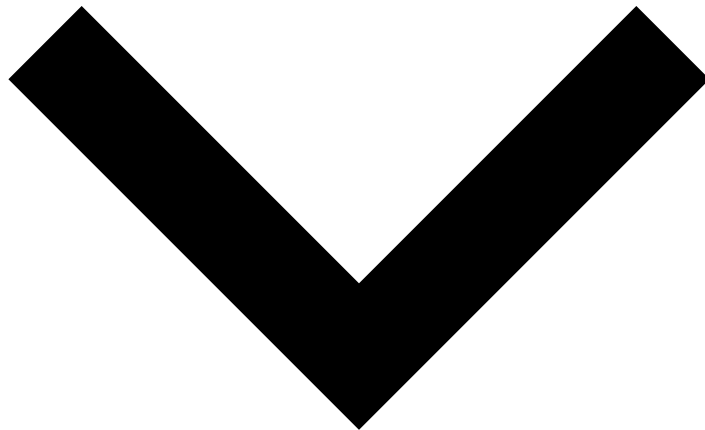
The pending attribute in the response indicates if the previously dispatched operation is still in progress (true) or has successfully completed (false). If the dispatched request failed with an error, then HTTP error is returned to the client as if it belonged to the original request.

Following specific errors within Earnings class can be returned by this method:

- Insufficient funds: EEarnings:Insufficient funds:Insufficient funds to complete the (de)allocation request

- User cap exceeded: EEarnings:Above max:The allocation exceeds user limit for the strategy
- Total cap exceeded: EEarnings:Above max:The allocation exceeds the total strategy limit
- Minimum allocation: EEarnings:Below min:(De)allocation operation amount less than minimum

**Authorizations:**



API-Key

**Request Body schema: application/json**

|          |                                               |
|----------|-----------------------------------------------|
| nonce    | integer <int32> (nonce)                       |
| required | Nonce used in construction of API-Sign header |



string  
strategy\_id ID of the earn strategy, call Earn/Strategies to list available strategies  
required

## Responses



200

Response

### Response Schema: application/json

error Array of strings (error)

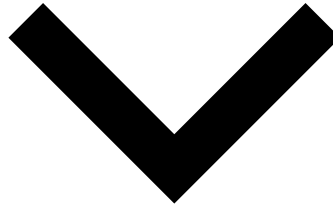


object or null

Status of async earn operation

result

[Redacted]



post/private/Earn/AllocateStatus

Production Server

https://api.kraken.com/0/private/Earn/AllocateStatus

## Request samples

- Payload

Content type  
application/json

[Redacted] Copy  
[Redacted] {

- "nonce": 30295839,
- "strategy\_id": "ESRFU03-Q62XD-WI0IL7"

}

## Response samples

- 200

Content type  
application/json

[Redacted] Copy [Redacted] Expand all  
[Redacted] Collapse all  
[Redacted] {

- "error": [ ],
- "result": [Redacted] {
  - "pending": false}

}

## Get Deallocation Status

Get the status of the last deallocation request.

Requires either the Earn Funds or Query Funds API key permission.

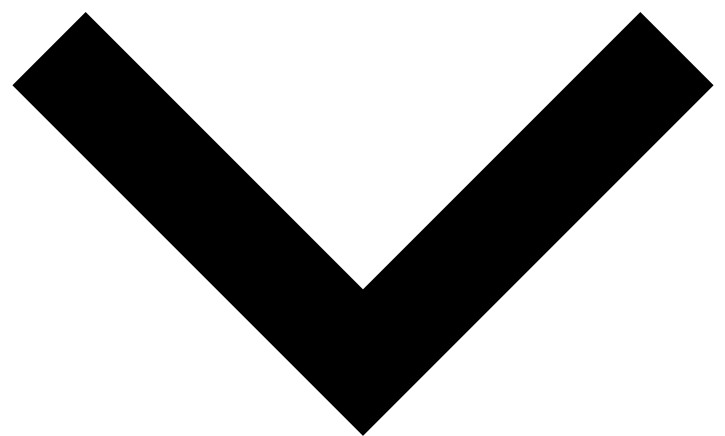
(De)allocation operations are asynchronous and this endpoint allows client to retrieve the status of the last dispatched operation. There can be only one (de)allocation request in progress for given user and strategy.

The pending attribute in the response indicates if the previously dispatched operation is still in progress (true) or has successfully completed (false). If the dispatched request failed with an error, then HTTP error is returned to the client as if it belonged to the original request.

Following specific errors within Earnings class can be returned by this method:

- Insufficient funds: EEarnings:Insufficient funds:Insufficient funds to complete the (de)allocation request
- Minimum allocation: EEarnings:Below min:(De)allocation operation amount less than minimum

**Authorizations:**



API-Key

**Request Body schema: application/json**

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
|             | integer <int32> (nonce)                                                    |
| nonce       |                                                                            |
| required    | Nonce used in construction of API-Sign header                              |
|             | string                                                                     |
| strategy_id |                                                                            |
| required    | ID of the earn strategy, call Earn/Strategies to list available strategies |

Responses



200

Response

Response Schema: application/json

error

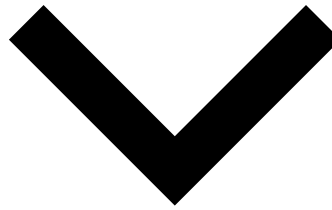
Array of strings (error)



object or null  
Status of async earn operation

result

[Redacted]



post/private/Earn/DeallocateStatus

Production Server

<https://api.kraken.com/0/private/Earn/DeallocateStatus>

## Request samples

- Payload

Content type  
application/json

[Redacted] Copy  
[Redacted] {

- "nonce": 30295839,
- "strategy\_id": "ESRFU03-Q62XD-WI0IL7"

}

## Response samples

- 200

Content type  
application/json

[Redacted] Copy [Redacted] Expand all  
[Redacted] Collapse all  
[Redacted] {

- "error": [ ],
- "result": [Redacted] {
  - "pending": false}

}

## List Earn Strategies

List earn strategies along with their parameters.

Requires a valid API key but not specific permission is required.

Returns only strategies that are available to the user based on geographic region.

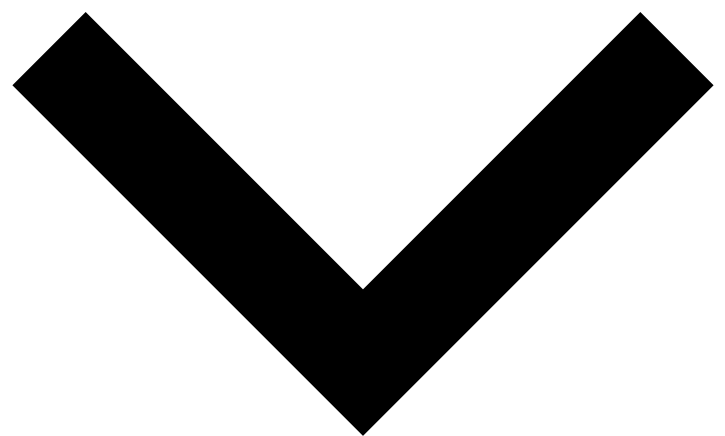
When the user does not meet the tier restriction, `can_allocate` will be false and `allocation_restriction_info` indicates Tier as the restriction reason. Earn products generally require Intermediate tier. Get your account verified to access earn.

A note about `lock_type`:

- `instant`: can be deallocated without an unbonding period. This is called flexible in the UI.
- `bonded`: has an unbonding period. Deallocation will not happen until this period has passed.
- `flex`: "Kraken rewards". This is earning on your spot balances where eligible. It's turned on account wide from the UI and you cannot manually allocate to these strategies.

Paging isn't yet implemented, so it the endpoint always returns all data in the first page.

**Authorizations:**



API-Key

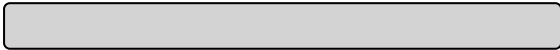
**Request Body schema: application/json**

|           |                                                             |
|-----------|-------------------------------------------------------------|
| nonce     | integer <int32> (nonce)                                     |
| required  | Nonce used in construction of API-Sign header               |
|           | boolean or null                                             |
| ascending | true to sort ascending, false (the default) for descending. |
|           | string or null                                              |
| asset     | Filter strategies by asset name                             |



|           |                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------|
|           | string or null                                                                                              |
| cursor    | None to start at beginning/end, otherwise next page ID                                                      |
|           | integer or null <uint16>                                                                                    |
| limit     | How many items to return per page. Note that the limit may be cap'd to lower value in the application code. |
|           | Array of strings or null                                                                                    |
| lock_type | Enum: "flex" "bonded" "timed" "instant"                                                                     |
|           | Filter strategies by lock type                                                                              |

## Responses



**200**

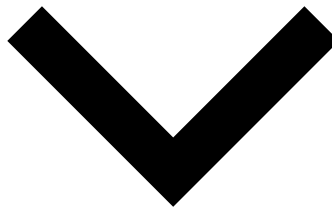
Response

### Response Schema: application/json

|       |                                               |
|-------|-----------------------------------------------|
| error | Array of<br>strings (error)<br>object or null |
|-------|-----------------------------------------------|



result



post/private/Earn/Strategies

Production Server

<https://api.kraken.com/0/private/Earn/Strategies>

## Request samples

- Payload

Content type  
application/json

Copy

{

- "nonce": 30295839,
- "asset": "DOT"

}

## Response samples

- 200

Content type  
application/json

|              |            |
|--------------|------------|
| Copy         | Expand all |
| Collapse all |            |
| {            |            |

```
• "error": [ ],
• "result": {
  ◦ "next_cursor": "2",
  ◦ "items": [
    ▪ {
      ▪ "id": "ESRFU03-Q62XD-WI0IL7",
      ▪ "asset": "DOT",
      ▪ "lock_type": {
        ▪ "type": "instant",
        ▪ "payout_frequency": 604800
      },
      ▪ "apr_estimate": {
        ▪ "low": "8.0000",
        ▪ "high": "12.0000"
      },
      ▪ "user_min_allocation": "0.01",
      ▪ "allocation_fee": "0.0000",
      ▪ "deallocation_fee": "0.0000",
      ▪ "auto_compound": {
        ▪ "type": "enabled"
      },
      ▪ "yield_source": {
        ▪ "type": "staking"
      },
      ▪ "can_allocate": true,
      ▪ "can_deallocate": true,
      ▪ "allocation_restriction_info": [ ]
    }
  ]
}
```

## List Earn Allocations

List all allocations for the user.

Requires the Query Funds API key permission.

By default all allocations are returned, even for strategies that have been used in the past and have zero balance now. That is so that the user can see how much was earned with given strategy in the past.

`hide_zero_allocations` parameter can be used to remove zero balance entries from the output. Paging hasn't been implemented for this method as we don't expect the result for a particular user to be overwhelmingly large.

All amounts in the output can be denominated in a currency of user's choice (the `converted_asset` parameter).

Information about when the next reward will be paid to the client is also provided in the output.

Allocated funds can be in up to 4 states:

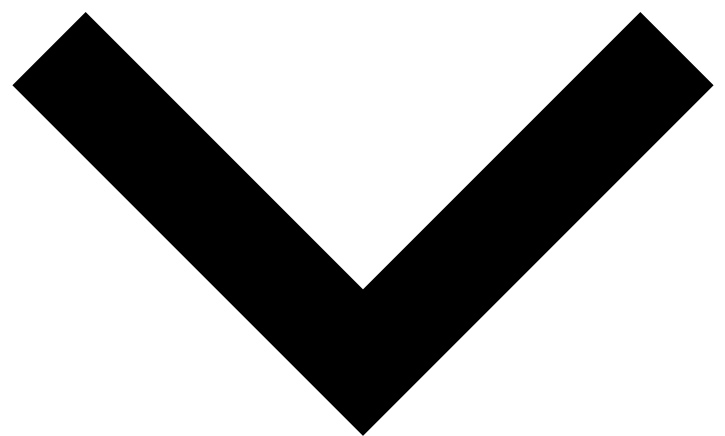
- bonding
- allocated
- exit\_queue (ETH only)
- unbonding

Any funds in total not in bonding/unbonding are simply allocated and earning rewards. Depending on the strategy funds in the other 3 states can also be earning rewards. Consult the output of `/Earn/Strategies` to know whether bonding/unbonding earn rewards. ETH in `exit_queue` still earns rewards.

Note that for ETH, when the funds are in the `exit_queue` state, the `expires` time given is the time when the funds will have finished unbonding, not when they go from exit queue to unbonding.

(Un)bonding time estimate can be inaccurate right after having (de)allocated the funds. Wait 1-2 minutes after (de)allocating to get an accurate result.

**Authorizations:**



API-Key

**Request Body schema: application/json**

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| nonce           | integer <int32> (nonce)                                     |
| required        | Nonce used in construction of API-Sign header               |
|                 | boolean or null                                             |
| ascending       | true to sort ascending, false (the default) for descending. |
| converted_asset | string or null                                              |

A secondary currency to express the value of your allocations (the default is USD).

boolean or null

hide\_zero\_allocations Omit entries for strategies that were used in the past but now they don't hold any allocation (the default is false)

Responses



200

Response

Response Schema: application/json

error

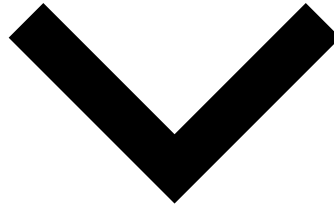
Array of strings (error)



object or null  
Page response

result

[Redacted]



post/private/Earn/Allocations

Production Server

<https://api.kraken.com/0/private/Earn/Allocations>

## Request samples

- Payload

Content type  
application/json

[Redacted] Copy  
[Redacted] {

- "nonce": 30295839,
- "converted\_asset": "EUR",
- "hide\_zero\_allocations": true

}

## Response samples

- 200

Content type  
application/json

[Redacted] Copy [Redacted] Expand all  
[Redacted] Collapse all  
[Redacted] {

- "error": [ ],
- "result": [Redacted] {
  - "converted\_asset": "USD",
  - "total\_allocated": "49.2398",

```

    "total_rewarded": "0.0675",
    "next_cursor": "2",
    "items": [
      {
        "strategy_id": "ESDQCOL-WTZEU-NU55QF",
        "native_asset": "ETH",
        "amount_allocated":
          {
            "bonding": {
              "native": "0.0210000000",
              "converted": "39.0645",
              "allocation_count": 2,
              "allocations":
                [
                  {
                    "created_at":
                      "2023-07-06T10:52:05Z",
                    "expires":
                      "2023-08-19T02:34:05.807Z",
                    "native": "0.0010000000",
                    "converted": "1.8602"
                  },
                  {
                    "created_at":
                      "2023-08-01T11:25:52Z",
                    "expires":
                      "2023-09-06T07:55:52.648Z",
                    "native": "0.0200000000",
                    "converted": "37.2043"
                  }
                ]
            },
            "total": {
              "native": "0.0210000000",
              "converted": "39.0645"
            }
          },
        "total_rewarded": {
          "native": "0",
          "converted": "0.0000"
        }
      }
    ]
  }
}

```



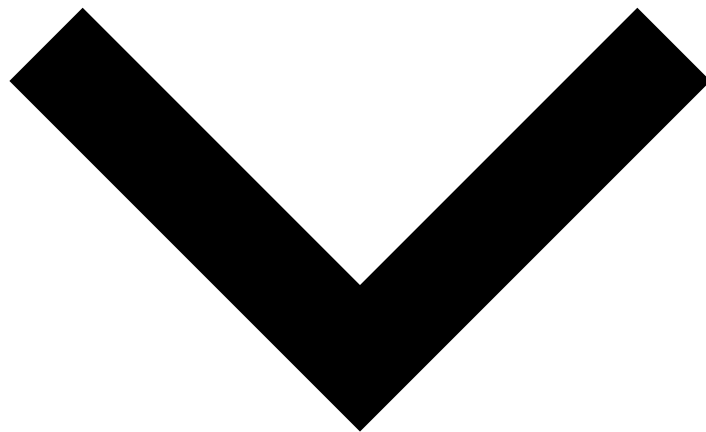
# Websockets Authentication

## Get Websockets Token

An authentication token must be requested via this REST API endpoint in order to connect to and authenticate with our [Websockets API](#). The token should be used within 15 minutes of creation, but it does not expire once a successful Websockets connection and private subscription has been made and is maintained.

**API Key Permissions Required:** WebSocket interface - On

**Authorizations:**



(API-KeyAPI-Sign)

**Request Body schema: application/x-www-form-urlencoded**

integer <int32> (nonce)  
nonce  
required Nonce used in construction of API-Sign header

**Responses**



**200**

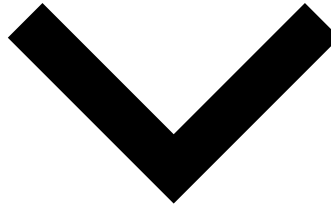
Websockets token retrieved.

**Response Schema: application/json**



object

result  
error  
Array of strings (error)



post/private/GetWebSocketsToken

Production Server

https://api.kraken.com/0/private/GetWebSocketsToken

## Request samples

- cURL
- Python

Copy

```
curl -X "POST" "https://api.kraken.com/0/private/GetWebSocketsToken" \
  -H 'API-Key: <YOUR-API-KEY>' \
  -H 'API-Sign: <YOUR-MSG-SIGNATURE>' \
  -H 'Content-Type: application/x-www-form-urlencoded; charset=utf-8' \
  --data-urlencode "nonce=<YOUR-NONCE>"
```

## Response samples

- 200

Content type  
application/json

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{

- "error": [ ],
- "result": 

{
  - "token": "1Dwc4lzSwNW0AwkMdqhssNNFhs1ed606d1WcF3XfEMw",
  - "expires": 900}

}