# **EIYARO Core API Reference**

# **Table of Contents**

Wallet Endpoints
Create Key Endpoint
Parameters
Returns
Example
List Keys Endpoint
Parameters
Returns
Example
Update Key Alias Endpoint
Parameters
Returns
Example
Delete Key Endpoint
Parameters
Returns
Example
Check Key Password Endpoint
Parameters
Returns
Example
Reset Key Password Endpoint
Parameters
Returns
Example
Create Account Endpoint
Parameters
Returns
Example
List Accounts Endpoint
Parameters
Returns 10
Example
Update Account Alias Endpoint
Parameters
Returns 1

Example	_
Delete Account Endpoint	)
Parameters	)
Returns	1
Example	)
Create Account Receiver Endpoint	)
Parameters	)
Returns 13	)
Example	)
List Addresses Endpoint	)
Parameters	ŀ
Returns	Ļ
Example	ŀ
Validate Address Endpoint	;
Parameters	;
Returns	;
Example	;
Get Mining Address Endpoint	;
Parameters	;
Returns	)
Example	)
Set Mining Address Endpoint	)
Parameters	)
Example	)
Get Coinbase Arbitrary Endpoint	7
Parameters	7
Returns	7
Example	7
Set Coinbase Arbitrary Endpoint	7
Parameters	,
Returns	)
Example	)
List pubkeys Endpoint	)
Parameters	)
Returns	)
Example	)
Create Asset Endpoint	)
Parameters	)
Returns 20	)
Example	)
Get Asset Endpoint	L

	Parameters	. 22
	Returns	. 22
	Example	. 22
	List Assets Endpoint	. 23
	Parameters	. 23
	Returns	. 23
	Example	. 23
	Update Asset Alias Endpoint	. 24
	Parameters	. 24
	Returns	. 25
	Example	. 25
	List Balances Endpoint	. 25
	Parameters	. 25
	Returns	. 25
	Example	. 25
	List Unspent Outputs Endpoint	. 26
	Parameters	. 27
	Returns	. 27
	Example	. 27
	Backup Wallet Endpoint	
	Parameters	
	Returns	
	Example	
	Restore Wallet Endpoint	
	Parameters	
	Returns	
	Example	
Ne	twork Endpoints	
	· · · · · · · · · · · · · · · · · · ·	

# **Wallet Endpoints**

These endpoints are available when we set: **config.toml** 

```
[wallet]
disable = false
```

This is the default value and we can possibly omit it.

## **Create Key Endpoint**

Creates a private key. The private key is encrypted in the file and not visible to the user.

#### **Parameters**

#### Object:

- String alias, name of the key.
- String password, password of the key.
- String language, mnemonic language of the key.

#### Optional:

• String - mnemonic, mnemonic of the key, create key by specified mnemonic.

#### **Returns**

#### Object:

- String alias, name of the key.
- String xpub, root pubkey of the key.
- String file, path to the file of key.

#### Optional:

• String - mnemonic, mnemonic of the key, exist when the request mnemonic is null.

### **Example**

Create key by random pattern:

#### Request

```
curl -X POST http://localhost:9888/create-key -d '{"alias": "alice", "password":
"123456", "language": "en"}'
```

```
{
   "alias": "alice",
   "xpub":
"a85e6eccb22f4c5fdade905f9a969003a17b6f35c237183a4313354b819a92689d52da3bcfe55f15a5508
77e8d789bd2bb9620f46e5049ea36470ab1b588a986",
   "file": "/home/yang/.eiyaro/keystore/UTC--2024-3-10T07-09-17.509894697Z--341695b9-
9223-470c-a26d-bea210f8e1bb",
   "mnemonic": "verb smoke glory dentist annual peanut oval dragon fiction current
```

```
orbit lab load total language female mushroom coyote regular toy slide welcome employ three"
}
```

Create key by specified mnemonic:

#### Request

```
curl -X POST http://localhost:9888/create-key -d '{"alias":"jack",
   "password":"123456", "mnemonic":"please observe raw beauty blue sea believe then boat
   float beyond position", "language":"en"}'
```

#### Response

```
{
    "alias": "jack",
    "xpub":
    "c7bcb65febd31c6d900bc84c386d95c3d5b047090628d9bf5c51a848945b6986e99ff70388018a7681fa3
7a240dbd8df39a994c86f9314a61e75feb33563ca72",
    "file": "/home/yang/.eiyaro/keystore/UTC--2024-3-10T07-08-51.815030323Z--46ee932e-
88d3-4680-a5c1-dd9e63918fcc"
}
```

## **List Keys Endpoint**

Returns the list of all available keys.

#### **Parameters**

None.

#### **Returns**

- Array of Object, keys owned by the client.
  - Object:
    - String alias, name of the key.
    - String xpub, pubkey of the key.

### **Example**

Request a list of the current keys on the node.

#### Request

```
curl -X POST http://localhost:9888/list-keys
```

#### Response

```
"alias": "alice",
    "xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea",
    "file": "/Path/To/Library/Eiyaro/keystore/UTC--2024-03-21T02-35-15.035935116Z--
4f2b8bd7-0576-4b82-8941-6cc6da05efe3"
 },
    "alias": "bob",
    "xpub":
"d30a810e88532f73816b7b5007d413cbd21e526ae9159023e5262511893adc1526b8eacd691b27c080201
d7d79336a4f3d2cb4c167d997821cad445765916254",
    "file": "/Path/To/Library/Eiyaro/keystore/UTC--2018-03-22T06-30-27.609315219Z--
0e34293c-8856-4f5f-b934-37456a3820fa"
 }
]
```

## **Update Key Alias Endpoint**

Update the alias for an existing key.

#### **Parameters**

Object:

- String xpub, pubkey of the key.
- String new\_alias, new alias of the key.

#### **Returns**

Nothing in case the key alias is updated successfully.

### **Example**

Update an existing key's alias.

#### Request

```
curl -X POST http://localhost:9888/update-key-alias -d '{"xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
```

```
fa625ad61b3253375ea744c9442dd5551613ba50aea", "new_alias": "new_key"}'
```

#### Response

No response in case operation was successful.

## **Delete Key Endpoint**

Deletes an existing key.



Please make sure that there is no balance in the related accounts.

#### **Parameters**

#### Object:

- String xpub, pubkey of the key.
- String password, password of the key.

#### **Returns**

Nothing in case the key is deleted successfully.

### **Example**

Delete an existing key.

#### Request

```
curl -X POST {bas-url}delete-key -d '{"xpub":
"a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
fa625ad61b3253375ea744c9442dd5551613ba50aea", "password": "123456"}'
```

#### Response

No response in case operation was successful.

## **Check Key Password Endpoint**

Check an existing key's password.

#### **Parameters**

#### Object:

• String - **xpub**, pubkey of the key.

• String - password, password of the key.

#### **Returns**

#### Object:

• Boolean - check\_result, if check is successful the value will be true, otherwise it will be false.

### **Example**

Check the password for an existing key.

#### Request

```
curl -X POST http://localhost:9888/check-key-password -d '{"xpub":
   "a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
   fa625ad61b3253375ea744c9442dd5551613ba50aea", "password": "123456"}'
```

#### Response

```
{
    "check_result": true
}
```

## **Reset Key Password Endpoint**

Reset an existing key's password.

#### **Parameters**

#### Object:

- String xpub, pubkey of the key.
- String old\_password, old password of the key.
- String new\_password, new password of the key.

#### **Returns**

#### Object:

• Boolean - changed, if reset is successful the value will be true, otherwise it will be false.

### **Example**

Reset the password for an existing key.

#### Request

```
curl -X POST http://localhost:9888/reset-key-password -d '{"xpub":
   "a7dae957c2d35b42efe7e6871cf5a75ebd2a0d0e51caffe767db42d3e6d69dbe211d1ca492ecf05908fe6
   fa625ad61b3253375ea744c9442dd5551613ba50aea", "old_password": "123456",
   "new_password": "654321"}'
```

#### Response

```
{
  "changed": true
}
```

## **Create Account Endpoint**

Create an account to manage addresses.

Single sign account contains only one root\_xpubs and quorum; however multi sign account can contain any number of root\_xpubs and quorum.

Quorum is the number of verify signatures, the range is [1, len(root xpubs)].

#### **Parameters**

#### Object:

- Array of String root\_xpubs, pubkey array.
- String alias, name of the account.
- Integer quorum, the default value is 1, threshold of keys that must sign a transaction to spend asset units controlled by the account.

#### Optional:

• String - access\_token, if optional when creating account locally. However, if you want to create account remotely, it's indispensable.

#### **Returns**

#### Object:

- String id, account id.
- String alias, name of account.
- Integer key\_index, key index of account.
- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
- Array of Object xpubs, pubkey array.

### **Example**

Create an account with a given root\_xpubs and alias.

#### Request

```
curl -X POST http://localhost:9888/create-account -d
'{"root_xpubs":["2d6c07cb1ff7800b0793e300cd62b6ec5c0943d308799427615be451ef09c0304bee5
dd492c6b13aaa854d303dc4f1dcb229f9578786e19c52d860803efa3b9a"],"quorum":1,"alias":"alic
e"}'
```

#### Response

```
{
   "alias": "alice",
   "id": "08F0663C00A02",
   "key_index": 1,
   "quorum": 1,
   "xpubs": [

"2d6c07cb1ff7800b0793e300cd62b6ec5c0943d308799427615be451ef09c0304bee5dd492c6b13aaa854
d303dc4f1dcb229f9578786e19c52d860803efa3b9a"
   ]
}
```

## **List Accounts Endpoint**

Returns a list of the available accounts on the node.

#### **Parameters**

Optional:

- String id, account id.
- String alias, name of account.

#### **Returns**

- Array of Object, account array.
  - Object:
    - String id, account id.
    - String alias, name of account.
    - Integer key\_index, key index of account.
    - Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.

• Array of Object - xpubs, pubkey array.

### **Example**

Request a list of the accounts present on the node.

#### Request

```
curl -X POST http://localhost:9888/list-accounts -d '{"alias":"alice"}'
```

#### Response

## **Update Account Alias Endpoint**

Updates an alias for the an existing account.

#### **Parameters**

```
Object: account_alias | account_id

* String - new_alias, new alias of account.
```

optional:

- String account\_alias, alias of account.
- String account\_id, id of account.

#### **Returns**

Nothing in case the account alias is updated successfully.

### **Example**

Update the alias for a given account ID or an account alias.

#### Request

```
curl -X POST http://localhost:9888/update-account-alias -d '{"account_id":
    "08F0663C00A02", "new_alias": "new_account"}'
# or
curl -X POST http://localhost:9888/update-account-alias -d '{"account_alias": "alice",
    "new_alias": "new_account"}'
```

#### Response

No response in case operation was successful.

## **Delete Account Endpoint**

Delete an existing account.



Please make sure that there is no balance in the related accounts.

#### **Parameters**

Object: account\_alias | account\_id

Optional:

- String account\_alias, alias of account.
- String account\_id, id of account.

#### **Returns**

Nothing if the account is deleted successfully.

### **Example**

Delete an existing account by account ID or account alias.

#### Request

```
curl -X POST http://localhost:9888/delete-account -d '{"account_id": "08F0663C00A02"}'
# or
curl -X POST http://localhost:9888/delete-account -d '{"account_alias": "alice"}'
```

#### Response

No response in case operation was successful.

## **Create Account Receiver Endpoint**

Creates an address and control program.

The address and control program are a one to one relationship.

In the build-transaction endpoint, the receiver is the address when the action is of type control\_address, and the receiver is the control program when the action is of type control\_program, both can be used to the same effect.

#### **Parameters**

```
Object: account_alias | account_id
```

#### Optional:

- String account\_alias, alias of account.
- String account\_id, id of account.

#### Returns

#### Object:

- String address, address of account.
- String control\_program, control program of account.

### Example

Create an account alias on the existing account ID.

#### Request

```
curl -X POST http://localhost:9888/create-account-receiver -d '{"account_alias":
   "alice", "account_id": "OBDQARM800A02"}'
```

#### Response

```
{
    "address": "ey1q5u8u4eldhjf3lvnkmyl78jj8a75neuryzlknk0",
    "control_program": "0014a70fcae7edbc931fb276d93fe3ca47efa93cf064"
}
```

## **List Addresses Endpoint**

Returns the sub list of all available addresses by account with a limit count.

#### **Parameters**

- String account\_alias, alias of account.
- String account id, id of account.
- Integer from, the start position of first address
- Integer count, the number of returned

#### **Returns**

- Array of Object, account address array.
  - object:
    - String account\_alias, alias of account.
    - String account\_id, id of account.
    - String address, address of account.
    - Boolean **change**, whether the account address is change.

### **Example**

List three addresses from first position by account\_id or account\_alias

#### Request

```
curl -X POST http://localhost:9888/list-addresses -d '{"account_alias": "alice",
"account_id": "086KQD75G0A02", "from": 0, "count": 3}'
```

```
[
    "account_alias": "alice",
    "account_id": "086KQD7560A02",
    "address": "ey1qcn9lf7nxhswratvmg6d78nq7r7yupm36qgsv55",
    "change": false
},
    {
        "account_alias": "alice",
        "account_id": "086KQD7560A02",
        "address": "ey1qew4h5uvt5ssrtg2alms0j77r94c30m78ucrcxy",
        "change": false
},
    {
        "account_alias": "alice",
        "account_id": "086KQD7560A02",
        "address": "ey1qgnp4lte7wge0rsekevjlrdh39vkzz0c2alheue",
        "change": false
```

```
]
```

## **Validate Address Endpoint**

Validate that the address is valid and report if it is local or not.

#### **Parameters**

#### Object:

• string - address, address of account.

#### **Returns**

#### Object:

- Boolean valid, whether the account address is valid.
- Boolean is\_local, whether the account address is local.

### **Example**

Request the validity of an address.

#### Request

```
curl -X POST http://localhost:9888/validate-address -d '{"address":
   "ey1qcn9lf7nxhswratvmg6d78nq7r7yupm36qgsv55"}'
```

#### Response

```
{
    "valid": true,
    "is_local": true,
}
```

## **Get Mining Address Endpoint**

Query the current mining address.

#### **Parameters**

None.

#### **Returns**

#### Object:

• String - mining\_address, the current mining address being used.

### **Example**

Request the current mining address.

#### Request

```
curl -X POST http://localhost:9888/get-mining-address
```

#### Response

```
{
    "mining_address":"ey1qnhr65jq3q9gf8uymza8vp0ew8tfyh642wddxh6"
}
```

## **Set Mining Address Endpoint**

Set the current mining address, no matter wether the address is a local one or not. It returns an error message if the address format is incorrect.

#### **Parameters**

#### Object:

• String - mining\_address, mining address to set.

#### Returns

#### Object:

• String - mining\_address, the new mining address.

### **Example**

Update the node's mining address.

#### Request

```
curl -X POST http://localhost:9888/set-mining-address -d
'{"mining_address":"ey1qnhr65jq3q9gf8uymza8vp0ew8tfyh642wddxh6"}'
```

#### Response

```
{
    "mining_address":"ey1qnhr65jq3q9gf8uymza8vp0ew8tfyh642wddxh6"
}
```

## **Get Coinbase Arbitrary Endpoint**

Get coinbase arbitrary.

#### **Parameters**

None.

#### **Returns**

#### Object:

• String - **arbitrary**, the arbitrary data append to coinbase, in hexadecimal format. (The full coinbase data for a block will be <code>0x008block\_height8arbitrary</code>.)

### **Example**

Query for the coinbase arbitrary.

#### Request

```
curl -X POST http://localhost:9888/get-coinbase-arbitrary
```

#### Response

```
{
    "arbitrary":"ff"
}
```

## **Set Coinbase Arbitrary Endpoint**

Set coinbase arbitrary.

#### **Parameters**

#### Object:

• String - arbitrary, the arbitrary data to be appended to coinbase, in hexadecimal format.

#### **Returns**

#### Object:

• String - **arbitrary**, the arbitrary data being appended to coinbase, in hexadecimal format. (The full coinbase data for a block will be <code>0x008block\_height8arbitrary</code>.)

### **Example**

Set the coinbase arbitrary.

#### Request

```
curl -X POST http://localhost:9888/set-coinbase-arbitrary -d '{"arbitrary":"ff"}'
```

#### Response

```
{
    "arbitrary":"ff"
}
```

## List pubkeys Endpoint

Returns the list of all available pubkeys by account.

#### **Parameters**

Object: account\_alias | account\_id | public\_key

#### Optional:

- String account\_alias, alias of account.
- String account\_id, id of account.
- string public\_key, public key.

#### Returns

#### Object:

- String root\_xpub, root xpub.
- Array of Object -pubkey\_infos, public key array.
  - String pubkey, public key.
  - Object derivation\_path, derivation path for root xpub.

### **Example**

Query for the list of pubkeys by account ID or account alias.

### Request

```
curl -X POST http://localhost:9888/list-pubkeys -d '{"account_id": "0G00LLUV00A02"}'
```

#### Response

```
"pubkey_infos": [
      "derivation_path": [
       "0101000000000000000",
        "010000000000000000"
      "pubkey": "b7730319feac582056379548360da5c08258e248e5c29de08a97a6614df1425d"
    },
    {
      "derivation_path": [
        "0101000000000000000",
        "020000000000000000"
      1,
      "pubkey": "5044a0d6113faaf4cb2550f63a820ab579a2af6134e503b76378490d5fe75af4"
   },
      "derivation_path": [
        "0101000000000000000",
        "030000000000000000"
      "pubkey": "ff5c28ce257b25c2a6e172ded490a708a8e654253836d92eb0a68b81ce63bea3"
    }
 ],
  "root_xpub":
"94a909319eac179f7694b99b8367b9c02b4414b95961e2e3a5bd887e0616af05a7c5e4448df92cd6cdfd8
2e57cd7aefc1ee0a7fd0d6a2194b5e5faf82556bedc"
}
```

## **Create Asset Endpoint**

Create an asset definition, it prepares for the issuance of an asset.

#### **Parameters**

#### Object:

• String - alias, name of the asset.

• Object - **definition**, definition of asset.

Optional:(please pick one from the following two ways)

- Array of String root\_xpubs, xpub array.
- Integer quorum, the default value is 1, threshold of keys that must sign a transaction to spend asset units controlled by the account.

or

• String - issuance\_program, user-defined contract program.

#### **Returns**

#### Object:

- String id, asset id.
- String alias, name of the asset.
- String issuance\_program, control program of the issuance of asset.
- Array of Object keys, information of asset pubkey.
- String **definition**, definition of asset.
- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.

### **Example**

Create an asset by xpubs:

#### Request

```
curl -X POST http://localhost:9888/create-asset -d '{"alias": "GOLD", "root_xpubs":
["f6a16704f745a168642712060e6c5a69866147e21ec2447ae628f87d756bb68cc9b91405ad0a95f00409
0e864fde472f62ba97053ea109837bc89d63a64040d5"], "quorum":1}'
```

Create an asset by issuance\_program:

#### Request

```
curl -X POST http://localhost:9888/create-asset -d '{"alias":
    "TESTASSET","issuance_program":
    "20e9108d3ca8049800727f6a3505b3a2710dc579405dde03c250f16d9a7e1e6e78160014c5a5b563c4623
018557fb299259542b8739f6bc20163201e074b22ed7ae8470c7ba5d8a7bc95e83431a753a17465e8673af
68a82500c22741a547a6413000000007b7b51547ac1631a000000547a547aae7cac00c0",
    "definition":{"name":"TESTASSET","symbol":"TESTASSET","decimals":8,"description":{}}}'
```

#### Response

```
{
    "id": "59621aa82c047bd21f73711d4a7905b7a9fbb49bc1a3fdc309b13807cc8b9094",
    "alias": "TESTASSET",
    "issuance_program":
"20e9108d3ca8049800727f6a3505b3a2710dc579405dde03c250f16d9a7e1e6e78160014c5a5b563c4623
018557fb299259542b8739f6bc20163201e074b22ed7ae8470c7ba5d8a7bc95e83431a753a17465e8673af
68a82500c22741a547a6413000000007b7b51547ac1631a000000547a547aae7cac00c0",
    "keys": null,
    "quorum": 0,
    "definition": {
        "decimals": 8,
        "description": {},
        "name": "TESTASSET",
        "symbol": "TESTASSET"
}
}
```

## **Get Asset Endpoint**

Query asset details by asset ID.

#### **Parameters**

#### Object:

• String - id, id of asset.

#### **Returns**

#### Object:

- String id, asset id.
- String alias, name of the asset.
- String issuance\_program, control program of the issuance of asset.
- Integer key\_index, index of key for xpub.
- Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
- Array of Object xpubs, pubkey array.
- String type, type of asset.
- Integer vm\_version, version of VM.
- String raw\_definition\_byte, byte of asset definition.
- Object **definition**, description of asset.

### **Example**

Get asset details by asset ID.

#### Request

```
curl -X POST http://localhost:9888/get-asset -d '{"id":
   "50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730"}'
```

```
{
   "alias": "SILVER",
   "definition": null,
   "id": "50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730",
   "issue_program":
   "ae2029cd61d9ef31d40af7541f9a50831d6317fdb0870249d0564fcfa9a8f843589c5151ad",
        "key_index": 1,
        "quorum": 1,
        "raw_definition_byte": "",
        "type": "asset",
        "vm_version": 1,
        "xpubs": [
```

```
"34b16ee500615cd325f8b84099f83c1ebecaca67977c5dc9b71ae32ceaf18207f996b0a9725b901d37926
89b2babcb60febe3b81a684d9b56b65f67f307d453d"
]
}
```

## **List Assets Endpoint**

Returns the list of all available assets.

#### **Parameters**

None.

#### **Returns**

- Array of Object, asset array.
  - Object:
    - String id, asset id.
    - String alias, name of the asset.
    - String issuance\_program, control program of the issuance of asset.
    - Integer key\_index, index of key for xpub.
    - Integer quorum, threshold of keys that must sign a transaction to spend asset units controlled by the account.
    - Array of Object xpubs, pubkey array.
    - String type, type of asset.
    - Integer vm\_version, version of VM.
    - String raw\_definition\_byte, byte of asset definition.
    - Object **definition**, description of asset.

### **Example**

List all the available assets.

#### Request

```
curl -X POST http://localhost:9888/list-assets -d '{}'
```

```
[ {
```

```
"alias": "EY",
   "definition": {
     "decimals": 8,
     "description": "Eiyaro Official Issue",
     "name": "EY",
     "symbol": "EY"
   "issue_program": "",
   "key_index": 0,
   "quorum": 0,
   "raw definition byte":
"7b0a202022646563696d616c73223a20382c0a2020226465736372697074696f6e223a20224279746f6d2
04f6666696369616c204973737565222c0a2020226e616d65223a202262746d222c0a20202273796d626f6
c223a202262746d220a7d",
   "type": "internal",
   "vm version": 1,
   "xpubs": null
 },
   "alias": "SILVER",
   "definition": null,
   "id": "50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730",
   "issue program":
"ae2029cd61d9ef31d40af7541f9a50831d6317fdb0870249d0564fcfa9a8f843589c5151ad",
   "key index": 1,
   "quorum": 1,
   "raw_definition_byte": "",
   "type": "asset",
   "vm version": 1,
   "xpubs": [
"34b16ee500615cd325f8b84099f83c1ebecaca67977c5dc9b71ae32ceaf18207f996b0a9725b901d37926
89b2babcb60febe3b81a684d9b56b65f67f307d453d"
   ]
 }
1
```

## **Update Asset Alias Endpoint**

Update asset alias by assetID.

#### **Parameters**

#### Object:

- String id, id of asset.
- String alias, new alias of asset.

#### **Returns**

Nothing the asset alias is updated successfully.

### **Example**

Update asset alias.

#### Request

```
curl -X POST http://localhost:9888/update-asset-alias -d
'{"id":"50ec80b6bc48073f6aa8fa045131a71213c33f3681203b15ddc2e4b81f1f4730",
"alias":"GOLD"}'
```

#### Response

No response in case operation was successful.

## **List Balances Endpoint**

Returns the list of all available accounts' balances.

#### **Parameters**

Optional:

- String account\_id, account id.
- String account\_alias, name of account.

#### **Returns**

- Array of Object, balances owned by the account.
  - object:
    - String account\_id, account id.
    - String account\_alias, name of account.
    - String asset\_id, asset id.
    - String asset\_alias, name of asset.
    - Integer amount, specified asset balance of account.

### **Example**

List all the available accounts' balances.

#### Request

```
curl -X POST http://localhost:9888/list-balances -d '{}'
```

#### Response

List available accounts' balances by a given account\_id:

#### Request

```
curl -X POST http://localhost:9888/list-balances -d '{"account_id":"0BDQ9AP100A02"}'
```

#### Response

## **List Unspent Outputs Endpoint**

Returns the sub list of all available unspent outputs for all accounts in your wallet.

#### **Parameters**

#### Object:

#### Optional:

- String id, id of unspent output.
- Boolean unconfirmed, is include unconfirmed utxo
- Boolean smart contract, is contract utxo
- Integer from, the start position of first utxo
- Integer count, the number of returned
- String account\_id, account id.
- String account\_alias, name of account.

#### **Returns**

- Array of Object, unspent output array.
  - o Object:
    - String account\_id, account id.
    - String account\_alias, name of account.
    - String asset\_id, asset id.
    - String asset\_alias, name of asset.
    - Integer amount, specified asset balance of account.
    - String address, address of account.
    - Boolean **change**, whether the account address is change.
    - String id, unspent output id.
    - String program, program of account.
    - String control\_program\_index, index of program.
    - String source\_id, source unspent output id.
    - String source\_pos, position of source unspent output id in block.
    - String valid\_height, valid height.

### **Example**

List all the available unspent outputs:

#### Request

```
curl -X POST http://localhost:9888/list-unspent-outputs -d '{}'
```

#### Response

```
"account_alias": "alice",
   "account_id": "0BKBR6VR00A06",
   "address": "ey1qv3htuvug7qdv46ywcvvzytrwrsyg0swltfa0dm",
   "amount": 2000,
   "asset_alias": "GOLD",
   "asset_id": "1883cce6aab82cf9af8cd085a3115dd4a92cdb8e6a9152acd73d7ae4adb9030a",
   "change": false,
   "control_program_index": 2,
   "id": "58f29f0f85f7bd2a91088bcbe536dee41cd0642dfb1480d3a88589bdbfd642d9",
   "program": "0014646ebe3388f01acae88ec318222c6e1c0887c1df",
   "source_id": "5988c1630c1f325e69bb92cb4b19af14286aa107311bc64b8f1a54629a33e0f4",
   "source pos": 2,
   "valid height": 0
 },
   "account_alias": "default",
   "account id": "0BKBR2D2G0A02",
   "address": "ey1qx7ylnhszg24995d5e0nftu9e87kt9vnxcn633r",
   "amount": 624000000000,
   "asset alias": "EY",
   "change": false,
   "control program index": 12,
   "id": "5af9d3c9b69470983377c1fc0c9125c4ac3bfd32c8d505f2a6042aade8503bc9",
   "program": "00143789f9de0242aa52d1b4cbe695f0b93facb2b266",
   "source id": "233d1dd49e591980f98e11f333c6c28a867e78448e272011f045131df5aa260b",
   "source_pos": 0,
   "valid_height": 12
 }
]
```

List the unspent output matching the given id:

#### Request

```
curl -X POST http://localhost:9888/list-unspent-outputs -d '{"id":
"58f29f0f85f7bd2a91088bcbe536dee41cd0642dfb1480d3a88589bdbfd642d9"}'
```

```
{
    "account_alias": "alice",
    "account_id": "0BKBR6VR00A06",
    "address": "ey1qv3htuvug7qdv46ywcvvzytrwrsyg0swltfa0dm",
```

```
"amount": 2000,
    "asset_alias": "60LD",
    "asset_id": "1883cce6aab82cf9af8cd085a3115dd4a92cdb8e6a9152acd73d7ae4adb9030a",
    "change": false,
    "control_program_index": 2,
    "id": "58f29f0f85f7bd2a91088bcbe536dee41cd0642dfb1480d3a88589bdbfd642d9",
    "program": "0014646ebe3388f01acae88ec318222c6e1c0887c1df",
    "source_id": "5988c1630c1f325e69bb92cb4b19af14286aa107311bc64b8f1a54629a33e0f4",
    "source_pos": 2,
    "valid_height": 0
}
```

## **Backup Wallet Endpoint**

Backs up a wallet to an image file, it contains the accounts' image, the assets' image and the keys' image.

#### **Parameters**

None.

#### **Returns**

#### Object:

- Object account\_image, account image.
- Object asset\_image, asset image.
- Object key\_images, key image.

### **Example**

Request a backup of the node's wallet information.

#### Request

```
curl -X http://localhost:9888/backup-wallet -d '{}'
```

```
"395d6e0ac25978c3f52f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983af
b54a9a0fb3e09b6ec0d4364c4808c94383d50fb0681"
          1,
          "quorum": 1,
          "key_index": 1,
          "ID": "0CQTA3E0G0A02",
          "Alias": "def"
        },
        "contract_index": 2
     }
    1
 },
  "asset_image": {
    "assets": []
  "key images": {
    "xkeys": [
        "crypto": {
          "cipher": "aes-128-ctr",
          "ciphertext":
"bf44766fec149478af9500e25ce0a6bc50bb2fa04e40465781da6ff64e9b3a4c9af3d214cd92c5a41d849
8db5f4376526740f960ff429b16e52876aec6860e1d",
          "cipherparams": {
            "iv": "1b0fc61ae4dacb15f0f77d2b4ba67635"
          },
          "kdf": "scrypt",
          "kdfparams": {
            "dklen": 32.
            "n": 4096,
            "p": 6,
            "r": 8,
            "salt": "e133b1e7caae771ff1ab34b14824d6e27ef399f2b7ded4ad3500f080ede4a1dd"
          },
          "mac": "bc6bf411fb63e61a17bc15b94f29cf0d5a0f084c328955da1f7e2b26757cfc23"
        "id": "1f40be59-7400-4fdc-b46b-15009f65363a",
        "type": "eiyaro_kd",
        "version": 1,
        "alias": "default",
"c4ec9bfd5df19d175e17ff7fed89193c37a4a64e1c0928387da01387ca76c3bfd99390e3373ec4d438522
cc2d4644214cd2ec3b00965f7a1fa3546809583191c"
      },
        "crypto": {
          "cipher": "aes-128-ctr",
          "ciphertext":
"f0887c8603cbbafc0a66d5b45f71488e089708c7dea4342625a67858a49d6d08c79cd3f1800627e3c8b46
68e8df34fcf0be9df5d9d4503acff05373976c312a9",
```

```
"cipherparams": {
            "iv": "c111b46f9104f49f2c40aedb827e53b5"
          },
          "kdf": "scrypt",
          "kdfparams": {
            "dklen": 32,
            "n": 4096,
            "p": 6,
            "r": 8,
            "salt": "d9ef588b258b111dea1d99a4e4c5a4f968ab69072176bb95b111922e3bbea9e6"
          "mac": "336f5fee643776e139f05ebe5e4f209d992ff97e16b906105fadac9e86133554"
        "id": "611d407c-9e97-4297-a02a-13cd68e47983",
        "type": "eiyaro_kd",
        "version": 1,
        "alias": "def",
        "xpub":
"395d6e0ac25978c3f52f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983af
b54a9a0fb3e09b6ec0d4364c4808c94383d50fb0681"
      }
    ]
 }
}
```

## **Restore Wallet Endpoint**

Restores the wallet by image file.

#### **Parameters**

#### Object:

- Object account\_image, account image.
- Object asset\_image, asset image.
- Object key\_images, key image.

#### **Returns**

None if restore of the wallet was successful.

### **Example**

Restore a node's wallet via the image file.

#### Request

```
curl -X POST http://localhost:9888/restore-wallet -d
```

```
'{"account_image":{"slices":[{"account":{"type":"account","xpubs":["395d6e0ac25978c3f5
2f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983afb54a9a0fb3e09b6ec0d
4364c4808c94383d50fb0681"], "quorum":1, "key_index":1, "ID": "0CQTA3E0G0A02", "Alias": "def"
},"contract_index":2}]},"asset_image":{"assets":[]},"key_images":{"xkeys":[{"crypto":{
"cipher": "aes-128-
ctr", "ciphertext": "bf44766fec149478af9500e25ce0a6bc50bb2fa04e40465781da6ff64e9b3a4c9af
3d214cd92c5a41d8498db5f4376526740f960ff429b16e52876aec6860e1d", "cipherparams": {"iv": "1
b0fc61ae4dacb15f0f77d2b4ba67635"},"kdf":"scrypt","kdfparams":{"dklen":32,"n":4096,"p":
6, "r":8, "salt": "e133b1e7caae771ff1ab34b14824d6e27ef399f2b7ded4ad3500f080ede4a1dd"}, "ma
c":"bc6bf411fb63e61a17bc15b94f29cf0d5a0f084c328955da1f7e2b26757cfc23"},"id":"1f40be59-
7400-4fdc-b46b-
15009f65363a", "type": "eiyaro_kd", "version": 1, "alias": "default", "xpub": "c4ec9bfd5df19d1
75e17ff7fed89193c37a4a64e1c0928387da01387ca76c3bfd99390e3373ec4d438522cc2d4644214cd2ec
3b00965f7a1fa3546809583191c"},{"crypto":{"cipher":"aes-128-
ctr","ciphertext":"f0887c8603cbbafc0a66d5b45f71488e089708c7dea4342625a67858a49d6d08c79
cd3f1800627e3c8b4668e8df34fcf0be9df5d9d4503acff05373976c312a9","cipherparams":{"iv":"c
111b46f9104f49f2c40aedb827e53b5"}, "kdf": "scrypt", "kdfparams": {"dklen": 32, "n": 4096, "p":
6,"r":8,"salt":"d9ef588b258b111dea1d99a4e4c5a4f968ab69072176bb95b111922e3bbea9e6"},"ma
c":"336f5fee643776e139f05ebe5e4f209d992ff97e16b906105fadac9e86133554"},"id":"611d407c-
9e97-4297-a02a-
13cd68e47983", "type": "eiyaro kd", "version": 1, "alias": "def", "xpub": "395d6e0ac25978c3f52
f9c7bdfdf75ce6af02639fd7875b4b1f40778ab1120c6dcf461b7ab6fd310983afb54a9a0fb3e09b6ec0d4
364c4808c94383d50fb0681"}]}}'
```

#### Response

No response in case operation was successful.

## **Network Endpoints**

These endpoints are available regardless of the wallet being disabled or not.