

## arionum asset faucet build info

This is a method of distributing assets based on gmail hash.

### **Please read first**

lightWalletCLI  
[github.com/arionum/lightWalletCLI](https://github.com/arionum/lightWalletCLI)

### **1.the data server**

We need 3 databases.

Hash database: record gmail hash, just hash.no time,no linked wallet address.

Verified database: record verified address,just address,No other.

Promoter database: Link user and promoter wallet address,delete after 30 days.

All databases are public and can be queried through API.

We need the data server to do this.

Send a verification code to gmail and confirm the verification code.

Add the corresponding data to the database.

Send wallet address and asset amount to wallet server.

### **2.the wallet server**

For security, we need a separate server as the wallet for sending assets.

These are two backend servers,related functions also need an asset faucet website.

## asset faucet webpage

wwsrjdf@gmail.com

Send code                      After clicking, send the gmail address to data server.

Verification code has been sent, effective within 10 minutes.                      Show this.

Enter verification code     like:570763

Enter your wallet address   like:21iNVsixrfQC6jE9sHgxbgz....KsUnGv55fYfiQhmNis1khq

Request 100 IAKC     After clicking,send code, gmail hash and wallet address to data server.

mark hash: 29c41e67e5c53c8b2a666829b9a6e265

Wallet addresses are anonymous,only mark this hash to prevent abuse.  
No one can find gmail address with this hash.

The webpage only needs these, the creator can modify the style by himself.  
Promoter address and choose can be edited in the source code.

for example

```
"5Jt5WdzGy4Hk5VqyS5AuAqYKN8V4U18346JR7YBJth9N4RbH1wnDuMAAbvjW6XaajRN  
1ruqVSTX9MVNuYf2Xbcw9"  
"iac"
```

## asset faucet website procedure

For example, user enter their gmail address.

wwwsrjdf@gmail.com

Then

```
<?php
$str = "wwwsrjdf@gmail.com";
echo md5($str);
?>
```

29c41e67e5c53c8b2a666829b9a6e265

1. Show this in the webpage.

mark hash: 29c41e67e5c53c8b2a666829b9a6e265

2. Look for 29c41e67e5c53c8b2a666829b9a6e265 in the data server hash database.  
If the hash already exists in the database.

Show this gmail address is already in use, please use another address.

If hash does not exist, continue to the next step.

3. Send gmail address to data server.

wwwsrjdf@gmail.com

Show Verification code has been sent, effective within 10 minutes.

4. Send the verification code, gmail hash and user wallet address to the data server .

570763

29c41e67e5c53c8b2a666829b9a6e265

21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBEaAoMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55  
fYfiQhmNis1khq

5. After received the "21iNVsixrfQC6jE9sHg... is done" from the data server.

21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBEaOMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55fYfiQhmNis1khq is done

show this in the webpage.

everything is done, assets have been sent.

6. Send wallet address and expected reward asset name.

"5Jt5WdzGy4Hk5VqyS5AuAqYKN8V4U18346JR7YBJth9N4RbH1wnDuMAAbvjW6XaajRN1ruqVSTX9MVNuYf2Xbcw9"  
"iacc"

### The data server procedure

1. Look for gmail hash in the hash database, if the hash already exists, do nothing.

echo -n wwwsrjdf@gmail.com | md5sum

29c41e67e5c53c8b2a666829b9a6e265

If hash does not exist, continue to the next step.

2. Generate a verification code sent to gmail, add the code and hash to the waiting list and delete it after ten minutes.

29c41e67e5c53c8b2a666829b9a6e265

570763

Add this to waiting list

570763 send this code.

3. Received the verification code, gmail hash and wallet address.

570763

29c41e67e5c53c8b2a666829b9a6e265

21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBEaOMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55fYfiQhmNis1khq

4. Check gmail verification code.

29c41e67e5c53c8b2a666829b9a6e265 570763 Check correct.

5.Add wallet address to verified database,If already exists, continue to the next step

Add this address to the verified database.

21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBBeAoMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55fYfiQhmNis1khq

6.Add gmail hash to hash database

Add this hash to the verified database.

29c41e67e5c53c8b2a666829b9a6e265

7.Send wallet address and asset amount to wallet server.

21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBBeAoMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55fYfiQhmNis1khq  
100

8. Send "21iNVsixrfQC6jE9sHg... is done" to the faucet website.

21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBBeAoMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55fYfiQhmNis1khq is done

9.Received the promoter address and reward asset name.

"5Jt5WdzGy4Hk5VqyS5AuAqYKN8V4U18346JR7YBJth9N4RbH1wnDuMAAbvjW6XaajRN1ruqVSTX9MVNuYf2Xbcw9"  
"iacc"

10.If asset name is iacc, send wallet address and asset amount to wallet server.

5Jt5WdzGy4Hk5VqyS5AuAqYKN8V4U18346JR7YBJth9N4RbH1wnDuMAAbvjW6XaajRN1ruqVSTX9MVNuYf2Xbcw9  
25

11.If it is another asset, link user and promoter address,delete after 30 days.

"21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBBeAoMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55fYfiQhmNis1khq;  
5Jt5WdzGy4Hk5VqyS5AuAqYKN8V4U18346JR7YBJth9N4RbH1wnDuMAAbvjW6XaajRN1ruqVSTX9MVNuYf2Xbcw9;  
DATE:2021-03-15 10:52:57"

## The wallet server procedure

Receive wallet address and asset amount, generate asset and send to the wallet address.

If received

```
21iNVsixrfQC6jE9sHgxbgz4aP1JpfKBBEaAoMFJKHhJNtdzPaEQW1drpfuqfdX5ijTKsUnGv55
fYfiQhmNis1khq
100
```

1. generate 100 asset      `asset inflate [100]`

2. send to that wallet address      `asset send [asset id] [destination] [amount]`

for example

```
./light-arionum-cli asset inflate 100
```

```
./light-arionum-cli asset send asset-id-is-asset-wallet-address 21iNVsixrfQ...1khq 100
```

The asset wallet will have some reserve assets, so is no time interval between step 1 and 2

arionum asset faucet build completed.

Asset need 0.00000002 ARO Per-Send Fee.

Transaction fee is 0.00000001 ARO

Destination account receive 0.00000001 ARO

In order to be able to transfer assets, ARO faucet is required.

## The aro faucet webpage and procedure

Enter your wallet address

I'm not a robot

Request some ARO

After clicking, send some aro to this address.

0.00095321 ARO has been sent.

You can request again after 24 hours, each time the amount is random.

Time interval calculation is based on IP address.

Random amount and time interval can be edited in the source code.

for example

```
"0.00100000-0.00000010"    Random amount
"24"                        Time interval
"1=0.00000012"             Exchange ratio
```

You can use IAKC to buy ARO

1 IAKC = 0.00000012 ARO This ratio is set by the website creator in source code.

5Jt5WdzGy4Hk5VqyS5AuAqYKN8V4U18346JR7YBJth9N4RbH1wnDuMAAbvjW6XaajRN1r  
uqVSTX9MVNuYf2Xbcw9

Send IAKC to this address, you will automatically receive the corresponding ARO

The website creator can install the lightWalletCLI on another server or on the website server.

send aro command

```
./light-arionum-cli send [address] [amount]
```

```
If.. then ..
```

All code will be open source on github.

Everyone can easily use this asset distribution system, only need to change the asset id.