

Pool

Step1:

Unzip the Pool_linux_x64.zip file to /usr/local/bin/ directory

Step2:

Create Pool Account by command:[Pool init], this command will create pool's block chain wallet, next is type your password which is used to encrypt wallet data.

```
[root@hop-4 go-miner-pool]# Pool init
Password=>
Password Again=>
Pool init success!
[root@hop-4 go-miner-pool]# █
```

cd to the workspace of pool : ~/.pool/ this file contains your wallet data.


```
[root@hop-4 .pool]# Pool bas -i 202.182.126.16 -p 123
202.182.126.16 16
conf init success

+++++
+PoolVersion: 0.1.0+
+DebugMode: false+
+LogLevel: INFO+
+Token:
+++++
+NetworkID: 1+
+EthApiUrl: https://mainnet.infura.io/v3/8b8db3cca50a4fcf97173b7619b1c4c3+
+MicroPaySys: 0xBAbAbabAbabaBABaBABABabaBAbAbaBaBABaBa+
+Token: 0xa57c4e2B4C3ef8C796a17438197087F3B4189FE9+
+++++
+
+++++

log init success
0xC26a1D69B7341b0667FE567fdFB8241fBFc7bF68 20
reg success!
[root@hop-4 .pool]#
```

Step5

Register pool to block chain,
before register to pool, you should transfer some eth and hop coin to the
[mainAddress] of the pool's wallet in step2

```
[root@hop-4 ~]# Pool eth balance -d
conf init success

+++++
+PoolVersion: 0.1.0+
+DebugMode: true+
+LogLevel: INFO+
+Token:
+++++
+NetworkID: 3+
+EthApiUrl: https://ropsten.infura.io/v3/f3245cef90ed440897e43efc6b3
+MicroPaySys: 0x660c2B067b0EE6a602305Fe167279385C123e322+
+Token: 0x3AdC98D5e292355e59ae2ca169d241d889B092E3+
+++++
+
+++++

log init success
0xC26a1D69B7341b0667FE567fdFB8241fBFc7bF68
main address:-> 0x0000000000000000000000000000000000000000000000000000000000000000
payer address:-> 0x0000000000000000000000000000000000000000000000000000000000000000
guaranteed token:-> 0
official web:->
pool's name:->
pool's email:->
hop balance:-> 0
eth balance:-> 0
contract approved:-> 0
[root@hop-4 ~]# █
```

```

[root@hop-4 ~]# Pool eth balance -d -a 0x02786489b5e65026c074ae7d71ddc89ceb3abdc
conf init success

+++++
+PoolVersion:  0.1.0+
+DebugMode:    true+
+LogLevel:     INFO+
+Token:
+++++
+NetworkID:    3+
+EthApiUrl:    https://ropsten.infura.io/v3/f3245cef90ed440897e43efc6b3dd0f7+
+MicroPaySys:  0x660c2B067b0EE6a602305Fe167279385C123e322+
+Token: 0x3AdC98D5e292355e59ae2ca169d241d889B092E3+
+++++
+
+++++

log init success
0x02786489B5e65026C074ae7D71DdC89CeB3AbDcB
main address:-> 0x02786489B5e65026C074ae7D71DdC89CeB3AbDcB
payer address:-> 0x02786489B5e65026C074ae7D71DdC89CeB3AbDcB
guaranteed token:-> 10240000000000000000000000000000
official web:-> http://hop.com
pool's name:-> JP POOL
pool's email:-> hop@gmail.com
hop balance:-> 255123317759020000000000
eth balance:-> 619138307550122626
contract approved:-> 0
[root@hop-4 ~]# █

```

Then register your pool to block chain , fill in your pool's basic information to show.

```

[root@hop-4 ~]# Pool eth reg -d -e "pool@hop.com" -n "Korean Pool" -u "http://official.home.page.of.user.com" -t 204010
conf init success

+++++
+PoolVersion:  0.1.0+
+DebugMode:    true+
+LogLevel:     INFO+
+Token:
+++++
+NetworkID:    3+
+EthApiUrl:    https://ropsten.infura.io/v3/f3245cef90ed440897e43efc6b3dd0f7+
+MicroPaySys:  0x660c2B067b0EE6a602305Fe167279385C123e322+
+Token: 0x3AdC98D5e292355e59ae2ca169d241d889B092E3+
+++++
+
+++++

log init success
Password=>

```

Step6

Start pool

```
[root@hop-4 .pool]# Pool -d
conf init success

+++++
+PoolVersion: 0.1.0+
+DebugMode: true+
+LogLevel: INFO+
+Token:
+++++
+NetworkID: 3+
+EthApiUrl: https://ropsten.infura.io/v3/f3245cef90ed440897e43efc6b3dd0f7+
+MicroPaySys: 0x660c2B067b0EE6a602305Fe167279385C123e322+
+Token: 0x3AdC98D5e292355e59ae2ca169d241d889B092E3+
+++++
+
+++++

log init success
Password=>
```

Miner

Step1

Unzip the HOP_linux_x64.zip file to /usr/local/bin/ directory

Step2

Init Miner by command :[HOP init]

```
[root@hop-us-2 ~]# HOP init -p 123
```

Step3

Register miner to DNS, in the ~/.hop directory ,there will be a wallet file after

initialization of HOP in step2.

```
[root@bas ~]# cd ~/.hop
[root@bas .hop]# ls
Receipts hop.log hop.pid wallet.json
[root@bas .hop]# more wallet.json
{
  "version": 1,
  "mainAddress": "0x6105ddf3d8c41440ecd820cb76537a15f84c649b",
  "crypto": {
    "cipher": "aes-128-ctr",
    "ciphertext": "1d7f61342a63b72e3054cf0ee0e3e817af7c64e8ade60782d02be239b0ac348c",
    "cipherparams": {
      "iv": "0d89bed05b369bd2f3ce3039c586d9f2"
    }
  },
  "kdf": "scrypt",
  "kdfparams": {
    "dklen": 32,
    "n": 262144,
    "p": 1,
    "r": 8,
    "salt": "5aa38cedddd80a92f053b89fbbbd20d7f1a6b5f75aa61512c9cbef90c2d520c9"
  },
  "mac": "d9fd1804fb5b57df06b095947af4707e6fc1ff048393d5af833a2b41057799ac"
},
  "subAddress": "H03bHQrqrwBJpicFfvAZt6cxl8LYx8RJU7Vd7x9N3d2kdh",
  "subCipher": "3X4tieCuzWESvLJgGxvegJ5V9scrvtGCT6SYFRwGCcxAPAFXGHxpdPgqfREbXNSCJzmT8MZTiKgxH1YCClElyVo6VC6rEMEZt5J6Hq49XoSyo8"
}
[root@bas .hop]#
```

register the miner's information to DNS

```
[root@bas .hop]# HOP bas -h
TODO:..

Usage:
  HOP bas [flags]

Flags:
  -b, --basIP string      HOP bas -b [BAS IP]] (default "167.179.112.108")
  -h, --help              help for bas
  -m, --minerIP string    HOP bas -m [MY IP Address]
  -p, --password string   HOP bas -p [PASSWORD]
[root@bas .hop]# HOP bas -m 167.179.112.108 -p 123
167.179.112.108 16
H03bHQrqrwBJpicFfvAZt6cxl8LYx8RJU7Vd7x9N3d2kdh 46
reg success!
[root@bas .hop]#
```

Step4

Register miner to block chain

Copy the [subAddress] int step 2 and return to the pool's server


```
[root@hop-4 ~]# Pool eth join -h
TODO:..

Usage:
  Pool eth join [flags]

Flags:
  -d, --debug          register this pool to test network
  -h, --help          help for join
  -p, --password string Pool's account password'
  -s, --subAddr string Miner's sub address
  -t, --token int     Token number to join pool for miner (default 50000)
  -z, --zone string   Miner's zone code (default "US")
[root@hop-4 ~]# Pool eth join -d -s H03bHQrqrBJpicFfvAZt6cxL8LYx8RJU7Vd7x9N3d2kdh -z "KR" -p 123
```

make sure there is enough eth and hop coin in your pool's wallet , register pool and miner both cost eth and hop coin.

Step5

Run the miner

```
[root@hop-2 go-miner]# HOP -d -p 123
log init success
```

Settlement

Collect the hop coins earned by pool:

```

[root@hop-2 ~]# Pool eth claim -h
T000:..

Usage:
  Pool eth claim [flags]

Flags:
  -d, --debug           Debug model
  -h, --help           help for claim
  -p, --password string Pool's account password'
  -u, --userAddress string User's address to be claimed
[root@hop-2 ~]# Pool eth claim -d -u 0x9Fc7B741befE06604bD6A005f99A2143532510F -p 123

+++++Micropay Receipt+++++
+RSIG: 0xc36859c2dd5db9fc54680e363364b809dd2375698d173c5d2d3acfc5dc3608032d9b22cc89dec2155e46923886987dafb8469050c894027be5369555cf7b32
+++++Micropay TX+++++
+SIG: 0x79e4a961a04712fe58527b53f231edac5b90b854c9b18b1233a38c40f1799e592727e07dc8d389ece79c52d80d583f475094fccc1941ecaf0d69aaa0ab3c0d
+HASH: 0xdbd53a80b33119c03e856720243f9d425752ccd01c0d18cd5ee1b1e45bfaa725
+Epoch: 0
+Nonce: 50
+Miner: H0Gfj5U1z5v22uLQPWAW8ZDuoJ2ob2MMBUZ8RFJPDTZk8
+Time: 2020-01-07 10:48:02
+From: 0x9Fc7B741befE06604bD6A005f99A2143532510F
+To: 0x02786489B5e65026C074ae7D71DdC89CeB3AbDcB
+Amount: 4196221
+Credit: 206525328
+TokenAddr: 0x3AdC98D5e292355e59ae2ca169d241d889B092E3
+Contract: 0x660c2B067b0EE6a602305Fe167279385C123e322
+++++
conf init success

+++++
+PoolVersion: 0.1.0+
+DebugMode: true+
+LogLevel: INFO+
+Token:
+++++
+NetworkID: 3+
+EthApiUrl: https://ropsten.infura.io/v3/f3245cef90ed440897e43efc6b3dd0f7+
+MicropaySys: 0x660c2B067b0EE6a602305Fe167279385C123e322+
+Token: 0x3AdC98D5e292355e59ae2ca169d241d889B092E3+
+++++
+
+++++
log init success
0xa1e33cf1ca9145f711a08efcd9ef5ee065bd84a252735185d88ba8e8801d2b6b
[root@hop-2 ~]#

```

then you can get the hop coin from user's account to you pool's account

Transaction Hash:	0xa1e33cf1ca9145f711a08efcd9ef5ee065bd84a252735185d88ba8e8801d2b6b
Status:	Success
Block:	7081374 1 Block Confirmation
Timestamp:	32 secs ago (Jan-07-2020 03:15:14 AM +UTC)
From:	0x02786489b5e65026c074ae7d71ddc89ceb3abdc
To:	Contract 0x660c2b067b0ee6a602305fe167279385c123e322
Tokens Transferred:	From 0x660c2b067b0ee6... To 0x02786489b5e650... For 0.210721549 Hyper Orchid... (HOP)
Value:	0 Ether (\$0.00)
Transaction Fee:	0.00015098 Ether (\$0.000000)

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FILTERED BY TOKEN HOLDER
0x02786489b5e65026c074ae7d71ddc89ceb3abdcb

BALANCE
25,512.542497451 HOP

Transfers Read Contract Write Contract

0x02786489b5e65026c074... x

A total of 30 transactions found

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Txn Hash	Age	From	To	Quantity
0xa1e33cf1ca9145f...	1 min ago	0x660c2b067b0ee6...	IN 0x02786489b5e650...	<u>0.210721549</u>
0x34ee07a067a064...	7 days 11 hrs ago	0x660c2b067b0ee6...	IN 0x02786489b5e650...	5.165805352
0xfd1a5fef4d2baa1...	9 days 19 hrs ago	0x660c2b067b0ee6...	IN 0x02786489b5e650...	5.012442492
0x80739bde249b03...	11 days 18 hrs ago	0x660c2b067b0ee6...	IN 0x02786489b5e650...	1.46549304
0x3630d80d66ec52...	12 days 12 hrs ago	0x660c2b067b0ee6...	IN 0x02786489b5e650...	0.391348219
0xb72f09858a0874...	12 days 14 hrs ago	0x660c2b067b0ee6...	IN 0x02786489b5e650...	6.067706238