本地搭建SAVE网络

SAVE Network 本地开发环境配置(SOLO共识)

本配置用于说明如何在本地环境搭建SAVE网络,为了方便测试,主链采用solo共识。同时为了简化网络拓扑,不引入NAT代理节点。本文档是在Mac OS系统下运行, 其他操作系统可能在个别命令会有差别。

1.代码编译

运行环境

- go version go1.16.5
- 如果不使用 Go Module 则输入命令 \$ go env -w GO111MODULE="off" ,同时下载各依赖模块
- 使用 Go Module , 修改以下配置

```
$ git config --global url."http://10.0.1.228:3000/saveio".insteadOf http://10.0.1.228:3000/saveio
$ go env -w GONOPROXY=github.com/saveio
$ go env -w GONOSUMDB=github.com/saveio
$ go env -w GOPRIVATE="github.com/saveio"
$ go env -w GOPROXY="https://goproxy.io,direct"
```

各代码版本

<u>Aa</u> 仓库	■ CommitId	■ 说明
<u>themis</u>	41ad0ce75fa3d76d6b3ff66f43b57bf29051e0f6	主链
themis-go-sdk	59432db5c30793283349b103c932b4a0eede8755	主链RPC SDK
<u>carrier</u>	9fc4d908c3850ceb1bec6445cc2825df56dbb347	P2P网络
<u>scan</u>	a0b7871af66c983d18c002d20da351df9f02c6a6	DNS
<u>pylons</u>	78a1ef20d8a0dfc16d2301eaae2dc0257cc67ae2	Layer2支付通道
max	139def04befb758949a40fef65b822aa440e6bd6	FS存储
<u>edge</u>	d56fb27056c347b73f5403d18149c72a1291e648	DSP客户端

<u>Aa</u> 仓库	■ CommitId	■ 说明
dsp-go-sdk	a3d6f6d46c55a43ccf2de63487f474878af9c59b	DSP SDK
<u>porter</u>	03916968865b1694f3a8ead0b1bdb0576bd3b6cd	NAT代理

编译

核心代码克隆完成之后,还需要克隆其他依赖代码。各依赖可以在内网编译机器直接下载 (内 网机器 10.0.1.138)

依赖所在位置 ~/publish_build/golang/src

编译参考各项目的说明,基本是 make 方式编译。

2.主链配置

创建钱包

```
$ cd ~/go/src/github.com/saveio/themis
$ go run main.go account add -d
```

输出:

Index:1
Label:

Address:AaK1g8jcH8zRMmN8F8oDaVteMXpit42pjh

Id(For PoC):7163600173146005825

Public key:03977eda4ea3db5757ad1977eaca6172ab3f197c19f06d2361769a6621941c48e1

Signature scheme: SHA256withECDSA Create account successfully.

启动

```
$ cd ~/go/src/github.com/saveio/themis
$ go run main.go --testmode -p pwd
```

查看余额(另起新的窗口)

```
$ cd ~/go/src/github.com/saveio/themis
$ go run main.go asset balance 1
```

输出:

BalanceOf:AaK1g8jcH8zRMmN8F8oDaVteMXpit42pjh

USDT:100000000

3.DNS节点配置

由于有数据库文件产生,这里需要先编译成可执行文件

创建钱包

\$ cd ~/go/src/github.com/saveio/scan

\$ make

\$./scan accound add -d

输出:

Index:1
Label:

Address: AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7

Id(For PoC):5654908485478275393

Public key:03ce349d0f6d6913e3a22f5191a7c751cbeedda9ab42ceed217ea8d083cc00dba5

Signature scheme: SHA256withECDSA Create account successfully.

获取测试币(另起新的窗口)

到 themis 节点处给 dns 节点转账

\$ cd ~/go/src/github.com/saveio/themis

\$ go run main.go asset transfer --from=AaK1g8jcH8zRMmN8F8oDaVteMXpit42pjh --to=AYFzNEzNH4KCGw7X S9N9C9oD6VbYobK5f7 --amount=100000

输出:

Transfer USDT

From:AaK1g8jcH8zRMmN8F8oDaVteMXpit42pjh To:AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7

Amount:100000

TxHash:edf053f2855c3890f3ca6f67952e21346e25e6ad66430fbf46fcf4bea7792e9c

Tip:

Using './themis info status edf053f2855c3890f3ca6f67952e21346e25e6ad66430fbf46fcf4bea7792e9c' to query transaction status.

等待1个区块高度,查询是否到账

```
$ cd ~/go/src/github.com/saveio/themis
$ go run main.go asset balance AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7
输出:
BalanceOf:AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7
USDT:100000
```

配置文件

```
$ cd ~/go/src/github.com/saveio/scan
$ vim scan_config.json
```

```
{
        "Base": {
                "DumpMemory": false,
                "BaseDir": ".",
                "LogLevel": 0,
                "PublicIP": "127.0.0.1",
                "IntranetIP": "127.0.0.1",
                "PortBase": 10000,
                "LocalRpcPortOffset": 337,
                "EnableLocalRpc": false,
                "JsonRpcPortOffset": 336,
                "EnableJsonrpc": true,
                "HttpRestPortOffset": 335,
                "HttpCertPath": "",
                "HttpKeyPath": "",
                "EnableRest": true,
                "ChainRpcAddr": "http://127.0.0.1:20336",
                "ChainRestAddr": "http://127.0.0.1:20334",
                "DisableChain": true,
                "ChannelNetworkId": 1565267317,
                "ChannelPortOffset": 338,
                "ChannelProtocol": "tcp",
                "ChannelClientType": "rpc",
                "ChannelRevealTimeout": "20",
                "ChannelSettleTimeout": "50",
                "ChannelDBPath": "./ChannelDB",
                "DnsNetworkId": 1565511150,
                "DnsProtocol": "tcp",
```

```
"DnsPortOffset": 339,
    "DnsGovernDeposit": 10000000000,
    "DnsChannelDeposit": 1000000000,
    "AutoSetupDNSRegisterEnable": true,
    "TrackerProtocol": "udp",
    "TrackerPortOffset": 6369,
    "TrackerPeerValidDuration": "-24h",
    "NATProxyServerAddr": "",
    "DBPath": "DB",
    "DnsNodeMaxNum": 100,
    "SeedInterval": 10,
    "IgnoreConnectDNSAddrs": [
    ]
}
```

配置文件说明

Aa 配置项	➡ 说明	■ 示例
<u>DumpMemory</u>	是否开启Profile进行性能记录	false
BaseDir	数据库文件所在目录(windows系统,请修改 此项)	
LogLevel	日志等级	0
<u>PublicIP</u>	固定外部IP	127.0.0.1
<u>IntranetIP</u>	内MIP	127.0.0.1
<u>PortBase</u>	各服务端口基准端口,如下面本地端口为 10000+337即10337	10000
<u>LocalRpcPortOffset</u>	本地RPC端口	337
<u>EnableLocalRpc</u>	是否开启本地RPC	false
<u>JsonRpcPortOffset</u>	JSON-RPC端口	336
<u>EnableJsonrpc</u>	是否使用JSON-RPC	true
<u>HttpRestPortOffset</u>	REST 端口	335
<u>HttpCertPath</u>	HTTPS 证书路径	1111
<u>HttpKeyPath</u>	HTTPS key 证书路径	····
<u>EnableRest</u>	是否开启 REST 服务	true
ChainRpcAddr	主链RPC地址,如果DNS为全节点, RPC地址为本地JSON-RPC地址	http://127.0.0.1:20336

Aa 配置项	■ 说明	■ 示例
<u>ChainRestAddr</u>	主链REST地址,如果DNS为全节点, REST 地址为本地REST地址	http://127.0.0.1:20334
<u>DisableChain</u>	是否启动全节点, 如果关闭全节点功能,上面的主链RPC地址需要配成远端RPC节点的地址	true
ChannelNetworkId	Channel 网络ID	1565267317
<u>ChannelPortOffset</u>	Channel网络端口	338
ChannelProtocol	Channel网络协议	tcp
<u>ChannelClientType</u>	Channel请求主链方式	rpc
ChannelRevealTimeout	Channel Reveal Timeout, 目前建议使用200 个区块高度	200
ChannelDBPath	Channel 数据库路径	./ChannelDB
<u>DnsNetworkId</u>	DNS网络ID	1565511150
<u>DnsProtocol</u>	DNS网络协议	tcp
<u>DnsPortOffset</u>	DNS端口	339
<u>DnsGovernDeposit</u>	DNS治理抵押,如果默认钱包余额充足,会自动抵押;否则,可使用命令手动抵押.	1000000000
<u>DnsChannelDeposit</u>	DNS通道抵押	1000000000
<u>AutoSetupDNSRegisterEnable</u>	是否开启DNS自动注册	true
<u>TrackerNetworkId</u>	Tracker网络ID	1567481543
<u>TrackerProtocol</u>	Tracker协议	tcp
<u>TrackerPortOffset</u>	Tracker端口	6369
<u>TrackerPeerValidDuration</u>	Tracker文件信息失效时间	-24h
<u>NATProxyServerAddr</u>	NAT proxy地址, 目前DNS有固定外部IP, 不使用NAT服务	ııı
<u>DBPath</u>	DNS数据库路径	DB
<u>DnsNodeMaxNum</u>	保留字段	100
SeedInterval	保留字段	10
<u>DnsChannelDeposit</u>	DNS通道抵押的资产数量	1000000000
<u>AutoSetupDNSRegisterEnable</u>	是否开启DNS自动注册	true
<u>AutoSetupDNSChannelsEnable</u>	是否自动创建通道	false
InitDeposit	保留字段	1000000000
ChannelDeposit	保留字段	1000000

Aa 配置项	■ 说明	■ 示例
<u>IgnoreConnectDNSAddrs</u>	忽略连接其他DNS的钱包地址	0

启动

```
$ cd ~/go/src/github.com/saveio/scan
$ ./scan --config scan_config.json -p pwd
```

查询节点是否成功注册(可跳过)

如果查询为空,则重启scan节点,重试几次。 如果注册失败,则排查 DNS节点钱包是否有余额

```
$ cd ~/go/src/github.com/saveio/scan
$ ./scan dns getRegInfo --all
```

```
输出
{
    "WalletAddr": "AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7",
    "IP": "127.0.0.1",
    "Port": "10338",
    "InitDeposit": 10000000000,
    "PeerPubKey": "03ce349d0f6d6913e3a22f5191a7c751cbeedda9ab42ceed217ea8d083cc00dba5"
}
```

4.存储节点配置

为了方便测试,创建一个文件夹 node1

创建存储节点文件夹

```
$ cd ~/go/src/github.com/saveio/edge
$ mkdir node1
```

编译

```
$ cd ~/go/src/github.com/saveio/edge
$ make
$ cd node1
$ ln -s ../edge .
```

创建钱包并获取测试币

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge account add -d
```

输出

Index:1
Label:

Address:AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2

Public key:024617e072438af2e19929ab3079d474499e9991cda3a52daea4b657ac788a98ee

Signature scheme: SHA256withECDSA Create account successfully.

```
\ cd \sim /go/src/github.com/saveio/themis \ go run main.go asset transfer --from=AaK1g8jcH8zRMmN8F8oDaVteMXpit42pjh --to=AHgGsdkCyxFpy3uV 5kxQ9ChHZLy41FmSw2 --amount=100000
```

输出

Transfer USDT

From:AaK1g8jcH8zRMmN8F8oDaVteMXpit42pjh To:AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2

Amount:100000

TxHash:1acd3137a1ed9bf16fe9b4aa7766d921e3b7e9422a57542c453e02798a6b0b14

Tip:

Using './themis info status 1acd3137a1ed9bf16fe9b4aa7766d921e3b7e9422a57542c453e02798a6b0b14' to query transaction status.

等一个区块高度后,查询是否到账

```
$ cd ~/go/src/github.com/saveio/themis
$ go run main.go asset balance AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2
```

```
输出
BalanceOf:AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2
USDT:100000
```

配置文件

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ vim config.json
```

```
{
 "Base": {
    "BaseDir": ".",
    "LogPath": "./Log/",
    "NetworkId": 1567651917,
   "ChainId": "1",
   "BlockTime": 5,
    "PublicIP": "127.0.0.1",
    "IntranetIP": "127.0.0.1",
    "PortBase": 10000,
    "LogLevel": 1,
    "LocalRpcPortOffset": 138,
    "EnableLocalRpc": true,
    "JsonRpcPortOffset": 136,
    "EnableJsonRpc": true,
    "HttpRestPortOffset": 135,
    "HttpCertPath": "",
    "HttpKeyPath": "",
    "RestEnable": true,
    "ChannelProtocol": "tcp",
    "ChannelPortOffset": 501,
    "DBPath": "./DB",
    "ChainRestAddrs": [
     "http://127.0.0.1:20334"
    "ChainRpcAddrs": [
     "http://127.0.0.1:20336"
    "NATProxyServerAddrs": "",
    "DspProtocol": "tcp",
    "DspPortOffset": 502,
    "TrackerProtocol": "tcp",
    "TrackerPortOffset": 137,
    "WsPortOffset": 139,
    "ProfilePortOffset": 331,
    "TrackerNetworkId": 1567651917,
    "WalletDir": "./keystore.dat"
 },
 "Fs": {
   "FsRepoRoot": "./FS",
```

```
"FsFileRoot": "./Downloads",
    "FsType": 1,
    "EnableBackup": true,
    "FsGCPeriod": "1h",
    "FsMaxStorage": "1000G"
  },
  "Dsp": {
   "DnsNodeMaxNum": 100,
    "SeedInterval": 600,
    "AutoSetupDNSEnable": false,
    "BlockDelay": "",
    "DnsChannelDeposit": 1000000000,
    "Trackers": [],
    "DNSWalletAddrs": [],
    "ChannelClientType": "rpc",
    "ChannelRevealTimeout": "20",
    "ChannelSettleTimeout": "50",
    "MaxUploadTask": 10000,
    "MaxDownloadTask": 10000,
    "MaxShareTask": 10000
 }
}
```

配置文件说明

Aa 配置项	■ 说明	■ 示例
Base.BaseDir	程序根目录	
<u>LogPath</u>	日志目录相对路径	./Log/
<u>NetworkId</u>	P2P网络ID	1567651917
<u>ChainId</u>	主链ID	1
<u>BlockTime</u>	主链出块时间 (秒)	5
<u>PublicIP</u>	固定外部IP	127.0.0.1
<u>IntranetIP</u>	内MIP	127.0.0.1
<u>PortBase</u>	各服务端口基准端口,如下面本地端口为 10000+337即10337	10000
LogLevel	日志等级	1
<u>LocalRpcPortOffset</u>	本地RPC端口	138
<u>EnableLocalRpc</u>	是否使用JSON-RPC	true
<u>JsonRpcPortOffset</u>	JSON-RPC 端口	136

Aa 配置项	➡ 说明	■ 示例
<u>EnableJsonRpc</u>	是否开启RPC	true
<u>HttpRestPortOffset</u>	REST 端口	135
<u>HttpCertPath</u>	HTTPS 证书路径	""
<u>HttpKeyPath</u>	HTTPS key 证书路径	""
<u>RestEnable</u>	是否开启REST	true
ChannelProtocol	Channel通道网络协议	"tcp"
ChannelPortOffset	Channel端口	138
<u>DBPath</u>	DB数据库路径	"./DB"
<u>ChainRestAddrs</u>	主链Rest API地址	["http://127.0.0.1:20334"]
ChainRpcAddrs	主链RPC API地址	["http://127.0.0.1:20336"]
<u>NATProxyServerAddrs</u>	NAT代理地址	IIII
<u>DspProtocol</u>	DSP网络协议	"tcp"
<u>TrackerProtocol</u>	Tracker网络协议	"tcp"
TrackerPortOffset	Tracker端口	137
<u>WsPortOffset</u>	Websocket端口	139
<u>ProfilePortOffset</u>	性能工具Profile端口	331
TrackerNetworkId	Tracker网络ID	1567651917
WalletDir	钱包地址	"./keystore.dat"
Fs.FsRepoRoot	FS存储路径	"./FS"
<u>FsFileRoot</u>	FS文件下载路径	"./Downloads"
<u>FsType</u>	FS类型 0 客户端 1 服务端 2 兼容	1
<u>EnableBackup</u>	是否开启备份	true
<u>FsGCPeriod</u>	GC时间	"1h"
<u>FsMaxStorage</u>	最大存储容量	"1000G"
<u>Dsp.DnsNodeMaxNum</u>	DNS最大数量	100
SeedInterval	做热点时间间隔	600
<u>AutoSetupDNSEnable</u>	是否开启自动设置DNS	false
<u>BlockDelay</u>	区块落账延迟时间	5
<u>DnsChannelDeposit</u>	DNS通道初始开启充值	100000000
<u>Trackers</u>	默认Tracker列表	0
<u>DNSWalletAddrs</u>	默认DNS钱包列表	0

Aa 配置项	■ 说明	■ 示例
<u>ChannelClientType</u>	通道客户端与主链API交互类型	"rpc"
ChannelRevealTimeout	ChannelReveal超时时间	20
ChannelSettleTimeout	ChannelSettlel超时时间	50
<u>MaxUploadTask</u>	最大同时上传数量	10000
<u>MaxDownloadTask</u>	最大同时上传数量	10000
<u>MaxShareTask</u>	最大同时分享文件数量	10000

启动存储节点

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge --config=config.json -p pwd
```

注册存储节点信息(1TB)

另起窗口

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge node register --nodeAddr=tcp://127.0.0.1:10131 --volume=1073741824 --serviceTime=8760
```

```
输出:
{
    "Tx": "c4d8b3c0c9173ce5801872b3ba417d17b98eade90c2cdb2a10c94189b1429dc7"
}
```

查询是否注册成功

输出:

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge node query --walletAddr=AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2
```

```
"Info": {
    "NodeAddr": "tcp://127.0.0.1:10131",
    "Pledge": 1.073741824,
    "Profit": 0,
    "RestVol": 1048576,
    "ServiceTime": 8760,
    "Volume": 1048576,
    "WalletAddr": "AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2"
}
```

创建存储节点的扇区(1TB)

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge sector create --sectorId=1 --proveLevel=1 --sectorSize=1073741824
输出:
{
  "Tx": "bf2ae6d08bb190b13c028f819e190868752fc686707ffd715440056dfee8d665"
}
```

查询是否注册成功

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge sector getsector --sectorId=1
```

```
输出:

{
    "NodeAddr": "AHgGsdkCyxFpy3uV5kxQ9ChHZLy41FmSw2",
    "SectorID": 1,
    "Size": 1073741824,
    "ProveLevel": 1,
    "FirstProveHeight": 0,
    "NextProveHeight": 0,
    "TotalBlockNum": 0,
    "FileNum": 0,
    "FileList": null
}
```

与DNS节点建立支付通道

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge channel open --partnerAddr=AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7 --amount=10000
```

等待几分钟

```
输出
{
    "Id": "101"
}
```

再查询一次

```
$ cd ~/go/src/github.com/saveio/edge/node1
$ ./edge channel list
```

```
输出
 "Balance": 100000000000000,
 "BalanceFormat": "10000",
 "Channels": [
   {
     "ChannelId": 101,
     "Balance": 100000000000000,
      "BalanceFormat": "10000",
      "Address": "AYFzNEzNH4KCGw7XS9N9C9oD6VbYobK5f7",
      "HostAddr": "tcp://127.0.0.1:10938",
      "TokenAddr": "AFmseVrdL9f9oyCzZefL9tG6UbvhUMqNMV",
     "IsParticipant1Closer": false,
     "IsParticipant2Closer": false,
     "IsDNS": true,
      "IsOnline": true,
      "Selected": true,
      "CreatedAt": 1606366142
 ]
```

5.客户端

启动Seeker

```
$ open seeker
```

设置为本地开发模式

▼ 路径为Mac路径, Windows路径为 %AppData%/Roaming/seek

```
$ cd ~/Library/Application Support/seek
$ vim front-config.json
```

设置 devEdgeEnable 为 true

```
{"console":false,"devEdgeEnable":true,"maxNumUpload":5,"lang":"en"}
```

创建客户端文件夹

```
$ cd ~/go/src/github.com/saveio/edge
$ mkdir client1
```

链接 edge

```
$ cd ~/go/src/github.com/saveio/edge/client1
$ ln -s ../edge .
```

配置文件

```
$ cd ~/go/src/github.com/saveio/edge/client1
$ vim config.json
```

```
"Base": {
    "BaseDir": ".",
    "LogPath": "./Log/",
    "NetworkId": 1567651917,
    "ChainId": "1",
    "BlockTime": 5,
    "PublicIP": "127.0.0.1",
    "IntranetIP": "127.0.0.1",
    "PortBase": 10000,
    "LogLevel": 1,
    "LocalRpcPortOffset": 338,
```

```
"EnableLocalRpc": true,
  "JsonRpcPortOffset": 336,
  "EnableJsonRpc": true,
  "HttpRestPortOffset": 335,
  "HttpCertPath": "",
  "HttpKeyPath": "",
  "RestEnable": true,
  "ChannelProtocol": "tcp",
  "ChannelPortOffset": 301,
  "DBPath": "./DB",
  "PpListenAddr": "",
  "PpBootstrap": null,
  "ChainRestAddrs": [
   "http://127.0.0.1:20334"
  "ChainRpcAddrs": [
    "http://127.0.0.1:20336"
  "NATProxyServerAddrs": "",
  "DspProtocol": "tcp",
  "DspPortOffset": 302,
  "TrackerProtocol": "tcp",
  "TrackerPortOffset": 337,
  "WsPortOffset": 339,
  "ProfilePortOffset": 531,
  "TrackerNetworkId": 1567651917,
  "WalletDir": "./keystore.dat"
},
"Fs": {
  "FsRepoRoot": "./FS",
  "FsFileRoot": "./Downloads",
  "FsType": 0,
  "EnableBackup": true,
  "FsGCPeriod": "1h",
  "FsMaxStorage": "1000G"
},
"Dsp": {
  "DnsNodeMaxNum": 100,
  "SeedInterval": 600,
  "AutoSetupDNSEnable": false,
  "BlockDelay": "",
  "DnsChannelDeposit": 1000000000,
  "Trackers": [],
  "DNSWalletAddrs": [],
  "ChannelClientType": "rpc",
  "ChannelRevealTimeout": "20",
  "ChannelSettleTimeout": "50",
  "MaxUploadTask": 10000,
  "MaxDownloadTask": 10000,
  "MaxShareTask": 10000
},
"Bootstraps": []
```

创建钱包并获取测试币

此操作为命令行操作,也可以使用Seeker操作

```
$ cd ~/go/src/github.com/saveio/edge/client1
$ ./edge account add -d

输出:

Index:1
Label:
Address:APDvqeWQsPh4m9gFZ7ipmet42pRphLpgBJ
Public key:03806b62e8773fe403aec0d93730b30c15276b8a4e7a0cd858861ec09a383b565c
Signature scheme:SHA256withECDSA
Create account successfully.
```

获取测试币(参考之前的步骤)

启动

```
$ cd ~/go/src/github.com/saveio/edge/client1
$ ./edge --config=config.json -p pwd
```

注册DNS Header

说明:注册DNS Header是为了上传文件时,可以生成URL。任意Edge 节点都可以注册,仅需注册一次。

```
$ cd ~/go/src/github.com/saveio/edge/client1
$ ./edge dns registerheader --header="oni" --desc="oni" --ttl=100000
输出:
{
   "Tx": "a4efd633a4342dd0c1796d52e75a8c1a716a41b845f67fbf348d9ab4e11e8cac"
}
```

重启Seeker