Start Planet Node

一、 启动earth链

1. 初始化earth链

```
1   planetd init earth --chain-id earth --home ~/.earth
```

2. 创建 `alice` 的地址

```
1   planetd keys add alice --keyring-backend test --home ~/.earth
```

3. 为 `alice` 在 `genesis` 中分配 `token`

```
1   planetd add-genesis-account alice 20000token,200000000stake --home ~/.earth
```

4. 通过质押让 `alice` 成为 `validator`
   - 将 `alice` 注册为validator operator account
   - 为自己质押相应的token (Self-delegates)
   - 将operator account与本地节点的pub key做关联

```
1   planetd gentx alice 100000000stake --chain-id earth --home ~/.earth --keyrin
```

5. 将生成的交易写入到 `genesis` 文件中

```
1   planetd collect-gentxs --home ~/.earth
```

6. 启动节点

```
1   planetd start --home ~/.earth
```

参考Running a node

二、 启动mars链

```
1   planetd init mars --chain-id mars --home ~/.mars
2
3   planetd keys add alice --keyring-backend test --home ~/.mars
4
5   planetd add-genesis-account alice 20000token,200000000stake --home ~/.mars
6
```

```
7   planetd gentx alice 100000000stake --chain-id mars --home ~/.mars --keyring-
8
9   planetd collect-gentxs --home ~/.mars
10
11  planetd start --home ~/.mars
```

更改端口号（防冲突）

```
1   cp ~/.earth_bak/config.toml ~/.earth/config/config.toml
2
3   cp ~/.earth_bak/app.toml ~/.earth/config/app.toml
```

三、启动relayer

1. 初始化配置

```
1   rly config init --home ~/.relayer
```

```
1   global:
2       api-listen-addr: :5183
3       timeout: 10s
4       memo: planet
5       light-cache-size: 20
6   chains:
7       earth:
8           type: cosmos
9           value:
10              key: alice
11              keyring-backend: test
12              chain-id: earth
13              rpc-addr: http://localhost:26660
14              account-prefix: cosmos
15              gas-adjustment: 1.3
16              gas-prices: 0.01token
17              min-gas-amount: 0
18              debug: false
19              timeout: 20s
20              block-timeout: ""
21              output-format: json
22              sign-mode: direct
23              extra-codecs: []
24              coin-type: 118
25              broadcast-mode: batch
26      mars:
27          type: cosmos
```

```
28          value:
29              key: alice
30              keyring-backend: test
31              chain-id: mars
32              rpc-addr: http://localhost:26657
33              account-prefix: cosmos
34              gas-adjustment: 1.3
35              gas-prices: 0.01token
36              min-gas-amount: 0
37              debug: false
38              timeout: 20s
39              block-timeout: ""
40              output-format: json
41              sign-mode: direct
42              extra-codecs: []
43              coin-type: 118
44              broadcast-mode: batch
45  paths:
46      planet:
47          src:
48              chain-id: earth
49          dst:
50              chain-id: mars
51          src-channel-filter:
52              rule: ""
53              channel-list: []
```

2. 导入密钥

```
1  rly keys restore earth alice <mnemonic>
2
3  rly keys restore mars alice <mnemonic>
```

3. 创建轻客户端

```
1  rly tx clients planet
```

3. 创建connection

```
1  rly tx connection planet
```

4. 创建channel

```
1  rly tx channel planet --src-port blog --dst-port blog --order unordered --ve
```

5. 启动relayer

```
rly start --home ~/.relayer
```