

Eichain观察节点搭建手册

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节点的条件

1. 硬件条件

1.1 节点条件

节点类型	cpu	内存(GB)	数据硬盘(GB)
全节点	4cpus	12	300+ GB Data Disk

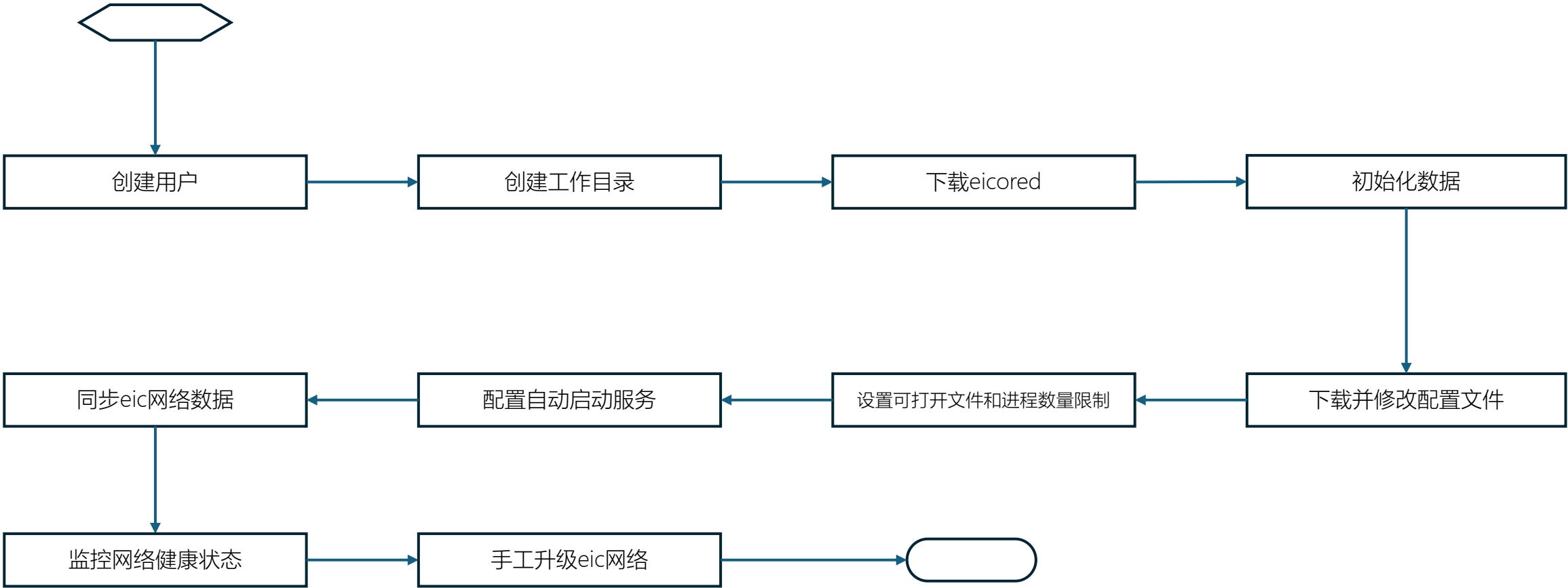
1.2 网络条件

节点类型	端口	协议	必须公开
验证节点	26656	tcp	是
cometbft	26657	tcp	可选
EVM RPC - HTTP	8545	tcp	可选
EVM RPC - WSS	8546	tcp	可选
Cosmos RPC	1317	tcp	可选

1.3 操作系统

Ubuntu server 22.04 LTS x86_64

观察节点流程



观察节点流程

1. 创建用户

```
/>useradd -m -s /bin/bash eichain
```

```
/>su eichain
```

2. 创建工作目录

```
/>cd /opt
```

```
/>sudo mkdir -p /opt/eichain/bin /opt/eichain/data
```

```
/>sudo chown -R eichain:eichain /opt/eichain
```

```
/>cd /opt/eichain
```

3. 下载eicored

```
/>wget https://github.com/eichain-projects/eichain/releases/download/v0.0.2/eichain.tar.gz -O /opt/eichain/bin/
```

```
/>cd /opt/eichain/bin/
```

```
/>tar zvfz eichain.tar.gz
```

```
/>chmod a+x /opt/eichain/bin/eicored
```

```
/>bin/eicored version
```

4. 初始化数据

```
/>bin/eicored init MONIKER --chain-id eichain_9070-1 --home=./data
```

eichain_9070-1是测试网； eichain_9071-1是主网

MONIKER改为所在节点的名字，只能是字母+数字组成

观察节点流程

5. 下载并修改配置文件

```
/>wget https://raw.githubusercontent.com/pinnacle/network-config/main/testnet/genesis.json -O ./data/config/genesis.json
wget https://raw.githubusercontent.com/pinnacle/network-config/main/testnet/client.toml -O ./data/config/client.toml
wget https://raw.githubusercontent.com/pinnacle/network-config/main/testnet/config.toml -O ./data/config/config.toml
wget https://raw.githubusercontent.com/pinnacle/network-config/main/testnet/app.toml -O ./data/config/app.toml
curl -4 icanhazip.com
```

获取本机ipv4地址

```
/>vi ./data/config/config.toml
moniker = "{MONIKER} "
external_address = "{YOUR_EXTERNAL_IP_ADDRESS_HERE}:26656 "
```

修改上述为正确内容

6.设置打开文件和进程数量限制

```
/>sudo vi /etc/security/limits.conf
*      soft  nproc  262144
*      hard  nproc  262144
*      soft  nofile 262144
*      hard  nofile 262144

/>sudo vi /etc/sysctl.conf
fs.file-max=262144
```

观察节点流程

7.配置自动启动服务

```
/>sudo vi /etc/systemd/system/eicored.service

[Unit]
Description=eicored
After=multi-user.target
StartLimitIntervalSec=0

[Install]
WantedBy=multi-user.target

[Service]
WorkingDirectory=/opt/eichain
Type=simple
Restart=always
RestartSec=600
User=eichain
LimitNOFILE=262144
ExecStart=/opt/eichain/bin/eicored start --home=/opt/eichain/data/ --log_format=json

/>sudo systemctl daemon-reload

/>sudo systemctl enable --now eicored
```

8. 同步数据

8.1 快照方法

8.2 KSYNC

8.3 检查状态

```
/>curl localhost:26657/status
```

观察节点流程

9. 监控健康

查看日志

```
/>sudo journalctl -f -u eicored
```

Metrics

```
/>sed -i 's/prometheus = false/prometheus = true/g' /home/zetachain/.zetacored/config/config.toml
```

```
/>sudo systemctl restart eicored
```

```
/>curl http://localhost:26660
```

10. 手工升级eic网络

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