

# 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

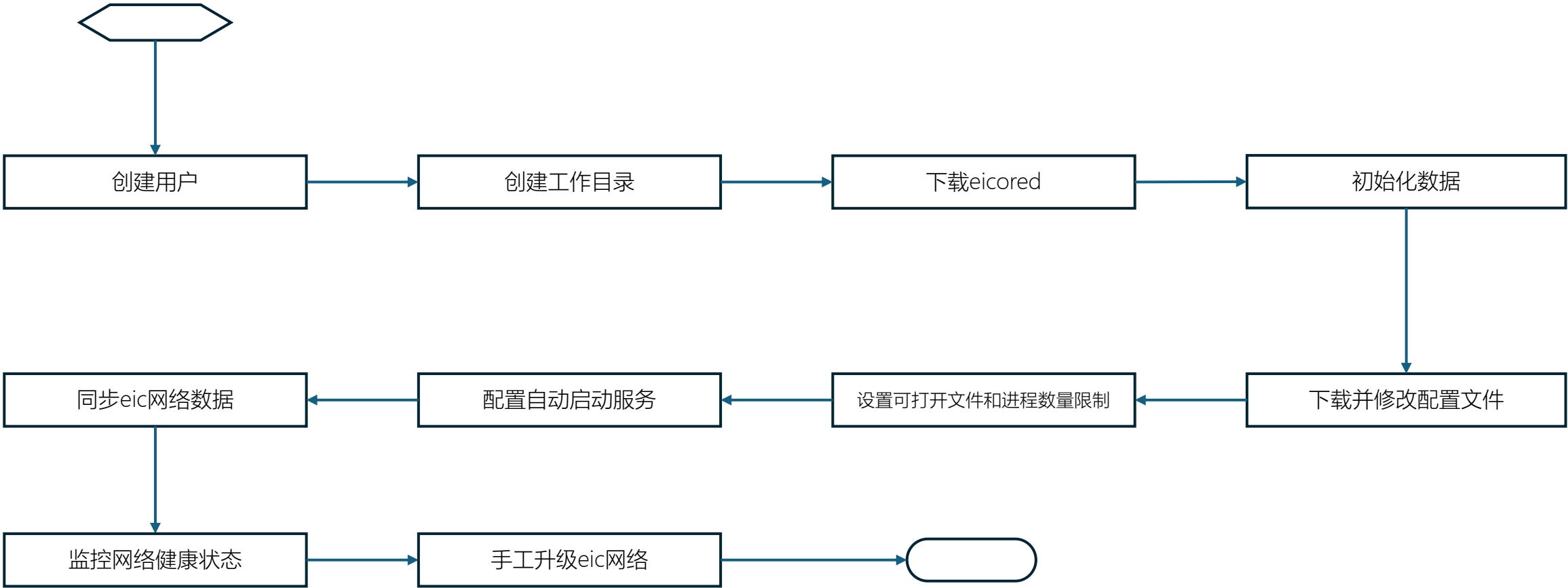
### 1.2 网络条件

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 24.04 LTS x86\_64

观察节点流程



# 观察节点流程

## 1. 创建用户

如果当前登录用户是root账号，则建议创建eichain账号，并切换到eichain账号；

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

```
/>su eichain
```

如果当前登录用户非root账号，则忽略本步骤操作

(本文档以eichain账号举例说明)

## 2. 创建工作目录

```
/>cd /opt
```

```
/>sudo mkdir eichain
```

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

```
/>cd eichain
```

```
/>mkdir /opt/eichain/bin /opt/eichain/data
```

## 3. 下载eicored

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

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

```
/>tar zvfx eichain.tar.gz
```

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

# 观察节点流程

## 4. 初始化数据

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

```
/>bin/eicored init MONIKER --chain-id eichain_9071-1 --home=./data
```

eichain\_9070-1是主网；eichain\_9071-1是测试网； eichain\_9072-1是研发网

MONIKER改为所在节点的名字，只能是字母+数字组成

## 5. 下载并修改配置文件

```
/>wget https://github.com/eichain-projects/network-config/blob/main/serenity/genesis.json -O ./data/config/genesis.json
```

```
/>wget https://github.com/eichain-projects/network-config/blob/main/serenity/client.toml -O ./data/config/client.toml
```

```
/>wget https://github.com/eichain-projects/network-config/blob/main/serenity/config.toml -O ./data/config/config.toml
```

```
/>wget https://github.com/eichain-projects/network-config/blob/main/serenity/app.toml -O ./data/config/app.toml
```

## 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
```