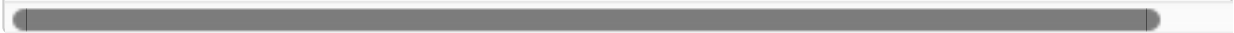# massa Test v4.1 - ubuntu 测试配置

下载测试文件

```
sudo cd ~ && wget https://not2007.github.io/massa/build-linux_TEST.4.1.
sudo apt-get install zip && unzip build-linux_TEST.4.1.zip
```

配置自启动

```
sudo apt-get update && sudo apt-get install supervisor

sudo tee  /etc/supervisor/conf.d/massa.conf > /dev/null <<EOF
[program:massa]
command=$(pwd)/massa/massa-node/massa-node
directory=$(pwd)/massa/massa-node/
autorestart=True
autostart=True
redirect_stderr=True
redirect_stdout=True
stderr_logfile=$(pwd)/massa/err.log
stdout_logfile=$(pwd)/massa/run.log
user=$USER
startsecs=1
EOF

sudo supervisorctl update massa
```

节点重启关闭参看运行日志：

```
sudo supervisorctl start massa
sudo supervisorctl stop massa
sudo supervisorctl restart massa
tail -n 20 ~/massa/run.log
```

创建钱包

```
cd ~/massa/massa-client
 ./massa-client
```

输入wallet*generate*private_key 创建钱包密钥

```
> wallet_generate_private_key
```

获得Private key: Public key: Address: 等

```
Private key: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Public key: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Address: xxxxxxxxxxxxxxxxxxxxxxxxxxxxx
```

复制Address地址，发送到discard 频道 testnet-token-request（https://discord.gg/massa）领取测试币

回到钱包client，兑换测试币

```
> Buying rolls address 1 0
```

质押测试币， 需要制定私钥 Private key

```
> node_add_staking_private_keys  <Private key>
```

查看节点质押情况： wallet_info

```
> wallet_info
```

Discard上激活Test 4

进入discard的 amouncements频道， 随便点个赞，然后会收到MassaBot 返回的信息，根据信息激活，复制命令回到钱包控制台输入，命令类似- address替换成上面的地址， 34502xxxxxxxx34324位discard user id

```
> cmd_testnet_rewards_program address 34502xxxxxxxx34324
```

执行玩后会出现一传字符，复制字符串，发送给MassaBot，提示成功还是失败，成功出现下面的提示

```
Your Discord user_id 3450277xxxxx175233 is registered for the testnet
reward program with:
    – Node ID: 724md7uaw5xxxxxxxxxxxxxxxxxxxxxxxxkzAC7B3aPSeW
    – Staking Address: tHgTrxxxxxxxxxxxxxxxxxxxxxxxx6RLJS
    – IP address: 218.72.16.254
```

输入节点的IP地址，绑定IP

输入MessageBot 可以输入 info查看信息