

# Rinkeby 테스트넷 구축하기 (with Truffle)

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## go-ethereum 설치하기

```
$ git clone https://github.com/ethereum/go-ethereum.git  
$ cd go-ethereum  
$ make geth
```



# Go-ethereum : Rinkeby 테스트넷 설정

// [깃클론한디렉토리]/go-ethereum 에서 진행

// 0. rinkeby 제네시스 블록 데이터 받기

\$ wget <https://www.rinkeby.io/rinkeby.json>

// 1. 제네시스 블록 initialize 하기 (블록체인 데이터를 위해 최초 한번만시행)

\$ ./build/bin/geth --datadir=\$HOME/.rinkeby init rinkeby.json

// 2. rinkeby 테스트넷 연결 - 블록 데이터 받기 ...

\$ ./build/bin/geth --networkid=4 \

--datadir=\$HOME/.rinkeby \

--unlock="0x98a03d4db807298cb9d79e1cb7a5960e191ce3de" \

--cache=512 \

--ethstats='yournode:Respect my authoritah!@stats.rinkeby.io' \

--rpc \

--rpcaddr="192.168.1.245" \

--rpcapi="personal,eth,network,net" \

--bootnodes=enode://a24ac7c5484ef4ed0c5eb2d36620ba4e4aa13b8c84684e1b4aab0cebea2ae45cb4d375b77eab56516d34bfbd3c1a833fc51296f084b770b94fb9028c4d25ccf@52.169.42.101:30303

// 3. input password to unlock account



## truffle configuration : truffle.js

```
module.exports = {
  networks: {
    development: {
      host: "localhost",
      port: 8545,
      network_id: "*" // Match any network id
    },
    rinkeby: {
      host: "호스트피씨 IP", // onther3 ip
      port: 8545,
      network_id: 4, // rinkeby network
      from: "배포를 수행할 이더리움 어카운트 주소" // account to deploy
    }
  }
};
```



truffle migrate

```
➔ truffle migrate --network rinkeby  
Compiling ./contracts/MiniMeToken.sol...  
Compiling ./contracts/MiniMeTokenCrowdsale.sol...
```



## (번외) go-ethereum daemon 으로 실행하기

```
$ sudo vim /etc/systemd/system/geth.service
```

```
1 [Unit]
2 Description=Ethereum go client
3
4 [Service]
5 Type=simple
6 ExecStart=/home/onther3/go-ethereum/build/bin/geth --networkid=4 \
7   --datadir=/home/onther3/.rinkeby \
8   --cache=512 \
9   --ethstats='yournode:Respect my authoritah!stats.rinkeby.io' \
10  --rpc \
11  --rpcaddr="192.168.1.245" \
12  --rpcapi="personal,eth,network,net" \
13  | --bootnodes=enode://a24ac7c5484ef4ed0c5eb2d36620ba4e4aa13b8c84684e1b4aab0cebea2ae45cb4d375b77eab56516d34bfbdc1a833fc51296ff084b770b94fb9028c4d25ccf@52.169.42.101:30303 2> %h/.ethereum/geth.log
14
15 [Install]
16 WantedBy=default.target
17
```

geth 절대경로

```
$ sudo systemctl daemon-reload
```

```
$ sudo systemctl enable geth.service
```

```
$ sudo systemctl start geth.service
```

rinkeby testnet ether faucet

<https://faucet.rinkeby.io/>

