

Krishna Run&Build Node Tutorial

01 Run Node

- Mainnet source code and binary program
- GitHub: <https://github.com/Krishnaproject2022/krishna>
- 1. Initialization

```
./geth init genesis*
```

- 2. Start the node program (it can run in the background after it can be synchronized normally after startup).

```
./geth --syncmode "full" --verbosity 1
```

- 3. Enter the interactive interface to perform related operations.

```
./geth attach
```

- 4. Query block height

```
eth.blockNumber
```

- 5. Query other node information

```
admin.peers
```

- 6. Enable RPC

```
admin.startRPC("0.0.0.0",8545)
```

- 7. Configure validator nodes

```
personal.newAccount("password")
// The acquired account is the A address (the following operations will be
performed after the 02 registration node is completed)

personal.unlockAccount(address, password, 0)
eth.mining
miner.start()

eth.mining
// return true
```

02 Build Node

- Binaries that automatically register nodes
 - GitHub: <https://github.com/Krishnaproject2022/tools>
- 1. Prepare two wallets A and B in advance. Reserve 10 KSAs in wallet A as node mining wallets. 2010 KSAs are reserved in wallet B for registration node operations, 1000 are registered for 1000 delegations, and the number of delegations will be increased if delegations are required.
- 2. Modify the configuration file.
 - (1)open: conf/main.toml
 - (2)modify: validator = (wallet A address)
 - (3)modify: node_name = (node name)
 - (4)Need to be delegated can be modified: open_deposit = true
 - (5)deposit_amount = amount of delegated
- 3. Start the NodeRegister program.
 - msg="Please enter the wallet private key"
 - (Enter the private key of wallet B)