# DeltaChain Deployment Guide

## 1. Install Prerequisites and Go 1.23

Ensure all prerequisites and Go 1.23 is installed.

# For Linux  
  
sudo apt update  
sudo apt install -y git make build-essential wget curl   
wget https://go.dev/dl/go1.23.linux-amd64.tar.gz  
sudo rm -rf /usr/local/go  
sudo tar -C /usr/local -xzf go1.23.linux-amd64.tar.gz  
export PATH=$PATH:/usr/local/go/bin  
go version

Verify Go version; it should be go version go1.23 linux/amd64.

## 2. Clone DeltaChain Repository

git clone https://github.com/Amplificable-Solutions/Delta.git  
cd Delta

## 3. Build DeltaChain

make install

It Installs deltad binary in $GOPATH/bin or $HOME/go/bin.

## 4. Initialize Chain

deltad init delta-mainnet --chain-id deltamainnet\_1313-1 --default-denom adlta

* Replace the generated ~/.delta/config/genesis.json with the provided genesis.json and change genesis\_time as per your genesis.

## 5. Create Validator Key

deltad keys add validator1

## 6. Add Genesis Account

deltad genesis add-genesis-account $(deltad keys show validator1 -a) 1000000000000000000000000000adlta

This gives 1 Billion DLTA (18 decimals) to validator1.

## 7. Generate Genesis Transaction (Gentx)

deltad genesis gentx validator1 100000000000000000000000adlta --chain-id deltamainnet\_1313-1

Stake 100,000 DLTA (18 decimals) for validator.

## 8. Collect and Validate Genesis

deltad genesis collect-gentxs  
deltad genesis validate-genesis

## 9. Configure App & Node Settings

### ~/.delta/config/app.toml

minimum-gas-prices = "0.025adlta"  
  
# RPC & WebSocket settings  
address = "0.0.0.0:8545"  
ws-address = "0.0.0.0:8546"  
api = "eth,net,web3,txpool,debug"  
  
# REST API  
enable = true  
swagger = true  
address = "tcp://0.0.0.0:1317"

### ~/.delta/config/config.toml

laddr = "tcp://0.0.0.0:26657"  
  
# Optional: default block time is 5s, adjust if needed  
timeout\_commit = "40s"

## 10. Start the Node

deltad start

Genesis Node will now start and your validator will be active.

## Exposed Endpoints

* JSON-RPC: 8545
* WebSocket: 8546
* REST API: 1317
* Tendermint RPC: 26657

✅ Deployment Complete!