

Road to Validation

Becoming a Testnet Validator on Gno.land

Secure the network and earn rewards through decentralized consensus

Validator Overview

gno.land validators maintain network security through Tendermint consensus

Responsibilities:

- Execute transactions and produce blocks
- Participate in governance voting
- Maintain node infrastructure

Requirements:

- Technical expertise in node operations
- Continuous contributions to ecosystem
- Minimum 20M ugnot deposit (testnet)

Key Architecture:

Profile Requirements

- Validator Name: Unique identifier
- Networks Validated: Current networks + Assets Under Management
- Digital Presence: Website/social links
- Contact Details: Public contact channel
- Contribution Plan: Past/future ecosystem contributions

Registration Command

```
gnokey maketx call \
  -pkgpath "gno.land/r/gnoland/valopers/v2" \
  -func "Register" \
  -gas-fee 1000000ugnot \
  -gas-wanted 30000000 \
  -send "2000000ugnot" \ # 20M ugnot anti-abuse deposit
  -args "<moniker>" \
  -args "<description>" \
```

Step 2: Submit Validator Proposal

GovDAO Sponsorship

Only GovDAO members can submit validator proposals:

- 1. Reach out on **Discord** for sponsorship
- 2. Provide your validator address
- 3. Prepare contribution evidence

Self-Nomination (GovDAO Members)

```
gnokey maketx call \
  -pkgpath "gno.land/r/gnoland/valopers proposal/v2" \
  -func "ProposeNewValidator" \
  -gas-fee 1000000ugnot \
  -gas-wanted 20000000 \
  -send "10000000ugnot" \ # 100M ugnot deposit
  -args "<validator address>" \
  -remote "https://rpc.test6.testnets.gno.land:443" \
  <key-name>
```

Step 3: GovDAO Voting

Approval Process

- 1. Review Phase (1-3 days):
 - Technical capability assessment
 - Contribution history verification
 - Infrastructure audit
- 2. Voting Phase (48 hours):
 - Majority approval required
 - Weighted by stake/participation
- 3. **Onboarding**:
 - Added to validator set
 - Begin block production

Hardware Requirements

Validator Nodes

CPU: 4-8 cores

■ **RAM**: 8-16 GB

Storage: 512GB+ SSD (archive nodes)

■ **Network**: Gigabit connection

• **Security**: Behind sentry nodes

Sentry Nodes (Recommended)

CPU: 8-16 cores

RAM: 16-32 GB

Storage: 512GB+ SSD

Maintaining Validator Status

Ongoing Requirements

- **Uptime**: >95% block production
- **Upgrades**: Timely software updates
- Security: Regular audits and key rotation
- **Governance**: Active voting participation

Contribution Expectations

- Code contributions to Gno repositories
- Documentation improvements
- Community support (Discord, forums)
- Tooling development (e.g., monitoring)

\$

Testnet Economics

```
Error: Parsing failed: unexpected character: ->"<- at offset: 43, skipped 13 characters.
unexpected character: ->D<- at offset: 57, skipped 8 characters.
unexpected character: ->"<- at offset: 75, skipped 9 characters.
unexpected character: ->D<- at offset: 85, skipped 8 characters.
unexpected character: ->"<- at offset: 104, skipped 4 characters.
unexpected character: ->F<- at offset: 109, skipped 5 characters.
unexpected character: ->"<- at offset: 123, skipped 16 characters. Expecting token of type 'EOF' but found `:`.
```

Key Notes:

- 1 Testnet tokens have **no real value**
- Use faucets for testnet funds: portal.gno.land/faucet
- Deposits are anti-spam measures, not purchases
- Mainnet economics will differ significantly

Getting Started Checklist

- 1. □Acquire testnet GNOT from faucet
- 2. Set up validator node infrastructure
- 3. □Prepare valoper profile documentation
- 4. □Execute Register transaction
- 5. □Engage GovDAO for sponsorship
- 6. □Monitor proposal voting status
- 7. Configure monitoring/alerting
- 8. □Join DevOps community gnops.io

Resources:

- Valoper Registry
- **Discord Channel**
- Hardware Guide