🛡️ Road to Validation

Becoming a Testnet Validator on Gno.land

Secure the network and earn rewards through decentralized consensus

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 "20000000ugnot" \   # 20M ugnot anti-abuse deposit
  -args "<moniker>" \
  -args "<description>" \
```

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 "100000000ugnot" \   # 100M ugnot deposit
  -args "<validator_address>" \
  -remote "https://rpc.test6.testnets.gno.land:443" \
  <key-name>
```

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

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:

- ⚠️ 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