



# Road to Validation

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## Becoming a Testnet Validator on Gno.land

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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:**



# Step 1: Register Valoper Profile

## 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>" \
```

# 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 "100000000ugnot" \ # 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:

- ⚠ 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](https://gnops.io)

## Resources:

- [Valoper Registry](#)
- [Discord Channel](#)
- [Hardware Guide](#)