

Gnoland Transaction Types





Understanding `call`, `run`, `addpkg` and `send`

How to interact with the Gno blockchain



What are Transactions?

Blockchain Interactions

-  Change blockchain state
-  Signed operations
-  Require gas fees
-  Must be broadcasted on network



Transaction Types Overview

Type	Command	Purpose
Call	<code>maketx call</code>	Execute specific function
Run	<code>maketx run</code>	Execute entire script
AddPkg	<code>maketx addpkg</code>	Deploy new realm
Send	<code>maketx send</code>	Transfer coins



Call Transactions

Execute Specific Functions

```
gnokey maketx call \  
  --pkgpath "gno.land/r/demo/boards" \  
  --func "CreateThread" \  
  --args "Crypto" \  
  --gas-fee 1gnot \  
  --gas-wanted 10000 \  
  mykeyname
```



Run Transactions

Execute Complete Scripts

```
gnokey maketx run \  
# Gas fees  
--gas-fee 1gnot \  
--gas-wanted 10000 \  
  
# Key  
mykeyname \  
  
# Transaction Script  
./myscript
```



Run Transactions

Execute Complete Scripts

```
package main

import (
    "gno.land/p/samourai/daokit"
    "gno.land/r/demo/mydao"
)

// Proposal to add a new member in the DAO
func main() {
    action := ...

    // Create proposal request with metadata and action
    proposal := daokit.ProposalRequest{
        Title:      "Adding new member",
        Description: "Adding new finance-officer member.",
        Action:     action,
    }

    // Submit the proposal to our DAO
    mydao.Propose(proposal)
    // Execute it a second time ?
    mydao.Propose(proposal)
}
```



AddPkg Transactions

Deploy New Realm

```
gnokey maketx addpkg \  
# Required parameters  
--pkgpath "gno.land/r/demo/token" \  
--pkgdir "." \  
--deposit "1000gnot" \  
  
# Gas fees + Key  
--gas-fee 1gnot \  
--gas-wanted 10000 \  
mykeyname
```



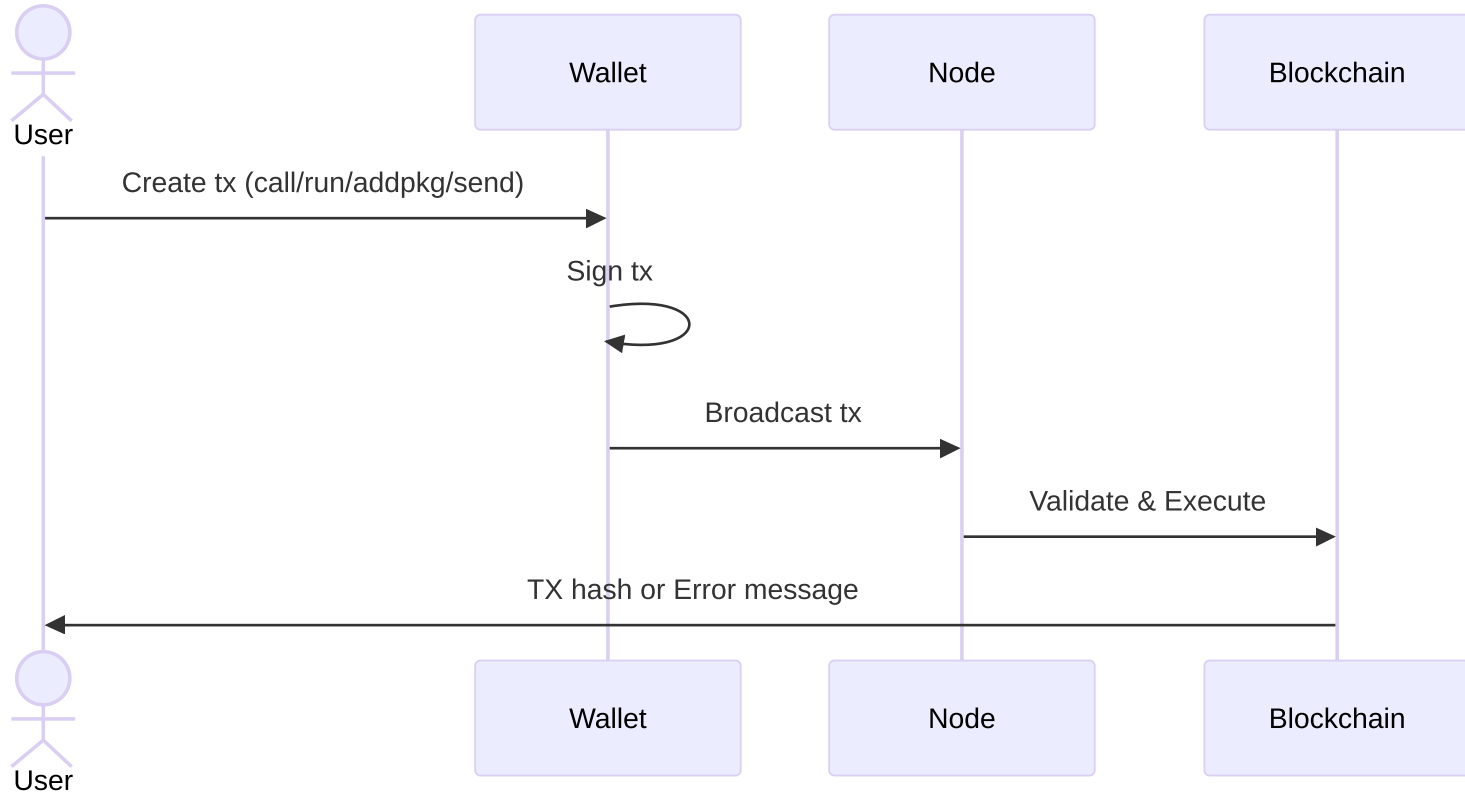
Send Transactions

Transfer Native Currency

```
gnokey maketx send \  
# Required parameters  
--send "100gnot" \  
--to g1qkm0xhj8nsm2l3g50ttazxhlq7fs47myhxqk79 \  
  
# Gas fees + Key  
--gas-fee 1gnot \  
--gas-wanted 10000 \  
mykeyname
```




Transaction Lifecycle





Broadcasting Transactions

Required Flags for Every Broadcast:

```
--broadcast          # Enable network transmission  
--chainid "testchain" # Specify blockchain network  
--remote "localhost:26657" # Connect to node RPC
```



Practical Examples

1. Deploy Contract

```
gnokey maketx addpkg --pkgpath "gno.land/r/mydapp/token" --gas-fee 1gnot --gas-wanted 10000 \  
--broadcast --chainid "staging" --remote "https://rpc.gno.land:443" key
```

2. Mint Tokens

```
gnokey maketx call --pkgpath "gno.land/r/mydapp/token" --func "Mint" --gas-fee 1gnot --gas-wanted 10000 \  
--broadcast -chainid "dev" -remote "tcp://127.0.0.1:26657" key
```

3. Run Setup Script

```
gnokey maketx run ./script.gno --gas-fee 1gnot --gas-wanted 10000 \  
--broadcast -chainid "dev" -remote "tcp://127.0.0.1:26657" key
```

4. Transfer Funds

```
gnokey maketx send --to glfriendaddress --send "50gnot" --gas-fee 1gnot --gas-wanted 10000 \  
--broadcast --chainid "staging" --remote "https://rpc.gno.land:443" key
```



Resources & Next Steps

Official Documentation

[gno.land Transactions Guide](#)

```
# View help for all commands  
gnokey maketx --help
```



Master transactions to unlock Gnoland's full potential!