

Localnet

This page describes how to run Neutron, Gaia, IBC and ICQ relayers locally, without Docker environment. Beware: you will have to clone all these repositories in the same parent directory, just like this:

```
. ├── neutron ├── gaia └── neutron-query-relayer
```

Prerequisites

- Go version 1.21 or newer
- Rust toolchain v1.69 or newer

1. Install Neutron

```
git clone -b v2.0.3 https://github.com/neutron-org/neutron cd neutron make
```

```
install
```

2. Install Gaia

1. clone gaia: `git clone -b v14.0.0 https://github.com/cosmos/gaia.git`
2. `cd gaia`
3. for some reason, gaia v14.0.0 checks if you have go v1.20 installed,
4. not newer, not older, however, it builds fine with newer versions, so, before
5. running `make install`
6. , you will have to edit gaia's Makefile on line 110
7. like this:

```
- (BUILD_TARGETS): check_version go.sum (BUILDDIR)/ + (BUILD_TARGETS): go.sum (BUILDDIR)/ 1. runmake install
```

3. Install Hermes

```
cargo install ibc-relayer-cli --bin hermes --version 1.6 .0 --locked
```

4. Install Neutron Query Relayer

```
git clone https://github.com/neutron-org/neutron-query-relayer cd neutron-query-relayer make
```

```
install
```

Start Localnet

1. `go to neutron/`
2. `folder and runmake init`
3. , this will start Neutron and Gaia chains
4. `aftermake init`
5. `completes, runmake start-rlly`
6. , this will start IBC relayer
7. (if you want to use [ICQ](#))
8.) `go to neutron-query-relayer/`
9. `folder and runexport (grep -v '^#' .env.example.dev | xargs) && make dev`
10. , this will start ICQ relayer

Some wallets and RPC's you could use

Gaia chain's RPC is exposed at 0.0.0.0:16657 , you can add and use mnemonic with some preallocated funds using

```
echo
```

```
"banner spread envelope side kite person disagree path silver will brother under couch edit food venture squirrel civil budget
number acquire point work mass"
```

```
| gaiad keys add
```

```
test --recover You can also check your balance using
```

```
gaiad query bank balances " ( gaiad keys show test -a ) " --node tcp://0.0.0.0:16657 Neutron chain's RPC is exposed
```

at0.0.0.0:26657 , you can add and use mnemonic with some preallocated funds using

echo

"veteran try aware erosion drink dance decade comic dawn museum release episode original list ability owner size tuition
surface ceiling depth seminar capable only"

| neutrnd keys add

test --recover You can also check your balance using

neutrnd query bank balances " (neutrnd keys show test -a) " --node tcp://0.0.0.0:26657 [Previous](#) [Cosmopark](#) [Next](#)
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