

Cosmopark

This page contains information about building and running Neutron node interconnected with a Gaia node by a Hermes IBC Relay and a Neutron ICQ Relay. This is a more advanced section than the basic sole Neutron node flow which is based on the Neutron's integration tests setup.

Prerequisites

- Docker engine;
- Golang v1.21 ([go releases and instructions](#))
-).

Build and run

1. Make sure you have the required golang version:

go version The output should comply with the golang version mentioned in the [Prerequisites](#) section.

2. Clone necessary repositories

You'll have to clone several repositories into a single parent folder. Choose a parent directory and make clonings from it. This is crucial to have all the repositories cloned and stored in the same parent folder.

Clone Neutron repositories

```
git clone -b v2.0.3 https://github.com/neutron-org/neutron.git git clone https://github.com/neutron-org/neutron-integration-tests.git git clone https://github.com/neutron-org/neutron-query-relayer.git
```

Clone and prepare Gaia

We use the Gaia network as a target network for interchain operations. We use v14.0.0 for the tests.

```
git clone https://github.com/cosmos/gaia.git cd gaia git checkout v14.0.0
```

3. Build images

The commands from this section are available from the `setup` folder in the `neutron-integration-tests` project.

If it's the first time you're here, run

`make build-all` If you have the images built and you want to rebuild one of them, the following commands which build each component separately are also available:

```
make build-gaia make build-neutron make build-hermes make build-relayer
```

4. Download Neutron DAO contracts

Neutron has Neutron DAO contracts in genesis, so before running you need to download the latest version of contracts:

```
npm run @neutron-org/get-artifacts neutron-dao -b main -d contracts
```

5. Run Cosmopark

The commands from this section are available from the `setup` folder in the `neutron-integration-tests` project.

`make start-cosmopark` A Neutron node, a Gaia node, a Hermes instance and an ICQ Relay instance are now running in the background. To see the apps logs, run:

`docker ps` And use the container ID you want to observe logs of:

`docker logs -f` Cumulative logs are available via running

`docker-compose logs -f` To stop cosmopark, run

```
make stop-cosmopark
```

6. Usage

Neutron node

The Neutron node usage guidelines (exposed ports, CLI, prepared accounts) for Cosmopark are the same as for the sole run. Please refer to the [corresponding section](#) to see more details on it.

Hermes

For more information about Hermes, refer to the [dedicated section](#) and its [configuration folder](#) in the neutron-integration-tests repo.

ICQ Relay

For more information about ICQ Relay, refer to the [dedicated section](#) and its configuration via [docker-compose file](#) in the integration-tests repo.

Gaia

The Gaia node running in the Cosmopark is configured via [docker-compose file](#) . [Previous Neutron standalone docker](#) [Next Localnet](#)