Cosmopark

This page contains information about building and running Neutron node interconnected with a Gaia node by a Hermes IBC Relayer and a Neutron ICQ Relayer. 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 v1.20 ([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 -b v0.2.0 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:

npx @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 Relayer 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-integraton-tests repo.

ICQ Relayer

For more information about ICQ Relayer, 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](#) .