## Run a Node on Rinkeby Testnet

To run a node on Rinkeby specifying a data directory:

pantheon --network=rinkeby --data-path=<path>/<rinkebydata-path>

Where <path> and <rinkebydata-path> are the path and directory where the Rinkeby chain data is to be saved.

## Confirm Node is Running

If you have started Pantheon with the [--rpc-http-enabled](https://docs.pantheon.pegasys.tech/en/stable/Reference/Pantheon-CLI-Syntax/#rpc-http-enabled) option, use [cURL](https://curl.haxx.se/) to call [JSON-RPC API methods](https://docs.pantheon.pegasys.tech/en/stable/Reference/JSON-RPC-API-Methods/) to confirm the node is running.

**Example**

* eth\_chainId returns the chain ID of the network.
* $ curl -X POST --data '{"jsonrpc":"2.0","method":"eth\_chainId","params":[],"id":1}' 127.0.0.1:8545
* eth\_syncing returns the starting, current, and highest block.
* $ curl -X POST --data '{"jsonrpc":"2.0","method":"eth\_syncing","params":[],"id":1}' 127.0.0.1:8545
* For example, after connecting to mainnet eth\_syncing will return something similar to:
* {  
   "jsonrpc" : "2.0",  
   "id" : 1,  
   "result" : {  
   "startingBlock" : "0x0",  
   "currentBlock" : "0x2d0",  
   "highestBlock" : "0x66c0"  
   }  
  }

## Local Block Data

When connecting to a network other than the network previously connected to, you must either delete the local block data or use the [--data-path](https://docs.pantheon.pegasys.tech/en/stable/Reference/Pantheon-CLI-Syntax/#data-path) option to specify a different data directory.

To delete the local block data, delete the database directory in the pantheon/build/distribution/pantheon-<version> directory.

## Genesis Configuration

Pantheon specifies the genesis configuration, and sets the network ID and bootnodes when connecting to [Mainnet](https://docs.pantheon.pegasys.tech/en/stable/Getting-Started/Starting-Pantheon/#run-a-node-on-ethereum-mainnet), [Goerli](https://docs.pantheon.pegasys.tech/en/stable/Getting-Started/Starting-Pantheon/#run-a-node-on-goerli-testnet), [Rinkeby](https://docs.pantheon.pegasys.tech/en/stable/Getting-Started/Starting-Pantheon/#run-a-node-on-rinkeby-testnet), and [Ropsten](https://docs.pantheon.pegasys.tech/en/stable/Getting-Started/Starting-Pantheon/#run-a-node-on-ropsten-testnet).

When [--network=dev](https://docs.pantheon.pegasys.tech/en/stable/Reference/Pantheon-CLI-Syntax/#network) is specified, Pantheon uses the development mode genesis configuration with a fixed low difficulty. A node started with [--network=dev](https://docs.pantheon.pegasys.tech/en/stable/Reference/Pantheon-CLI-Syntax/#network) has an empty bootnodes list by default.

The genesis files defining the genesis configurations are in the [Pantheon source files](https://github.com/PegaSysEng/pantheon/tree/master/config/src/main/resources).

To define a genesis configuration, create a genesis file (for example, genesis.json) and specify the file using the [--genesis-file](https://docs.pantheon.pegasys.tech/en/stable/Reference/Pantheon-CLI-Syntax/#genesis-file) option.