

# Building from source

The Nethermind's source code can be obtained from [our repository](#) on GitHub:

`git clone --recursive https://github.com/nethermindeth/nethermind.git` There are two options building Nethermind from source code:

- [Standalone binaries](#)
- [Docker image](#)

## Building standalone binaries

### Prerequisites

To build Nethermind from source, install [.NET SDK](#) 8 or later.

### Building

To build both the client and tests, run the following command from the project's root directory:

`dotnet build src/Nethermind/Nethermind.sln -c release` To simply run the client with a specific configuration without building tests, see below.

Before running the client or tests, ensure the platform-specific [prerequisites](#) are met.

### Running

Nethermind can be launched immediately without compiling explicitly (thus, the previous step can be skipped). The following command builds Nethermind if needed and runs it:

`cd src/Nethermind/Nethermind.Runner dotnet run -c release -- -c mainnet` All Nethermind-specific parameters can be specified after `--`. For instance, the command above specifies the Mainnet configuration only.

The build artifacts can be found in the `src/Nethermind/artifacts/bin/Nethermind.Runner/release` directory. By default, the logs and database directories are located here as well.

For more info, see [Running Nethermind](#).

### Testing

There are two test suites — Nethermind and Ethereum Foundation. Tests can be run with the following commands (the initial step of the build is not required):

`cd src/Nethermind`

## Run Nethermind tests

`dotnet test Nethermind.sln -c release`

## Run Ethereum Foundation tests

`dotnet test EthereumTests.sln -c release`

## Building Docker image

To build Nethermind Docker image, run the following command from the project's root directory:

`docker build -t nethermind .` For more info about running Docker containers, see [Installing Nethermind](#). [Edit this page](#) Last updated on Mar 26, 2024 [Previous Aura-based validators](#) [Next Plugins](#)