

# Grafana and Prometheus

This guide will walk you through setting up a local metrics infrastructure using [Grafana](#) and [Prometheus](#).

## Step 1: Set up Grafana and Prometheus

To simplify the process, we will use the [metrics-infrastructure](#) repository, which contains the necessary configuration files to run Grafana and Prometheus in a Docker container. However, you can also set up Grafana and Prometheus manually the way it fits your specific needs.

```
git clone https://github.com/NethermindEth/metrics-infrastructure.git
```

## Step 2: Run the stack

After cloning the repository, navigate to its root directory and run the containers using Docker Compose as follows:

`docker-compose up` Once the stack is running, you can access the following services:

- Grafana
- [:localhost:3000](#)
- Useadmin
- for both the username and password. When asked for a password change, you may skip it. Then, navigate to Dashboards > Nethermind Dashboard.
- Prometheus
- [:localhost:9090](#)
- Pushgateway
- [:localhost:9091](#)
- To specify another endpoint for the Pushgateway, use the `--Metrics.PushGatewayUrl` command line option.

## Step 3: Run Nethermind

To enable metrics in Nethermind, use the `--Metrics.Enabled true` command line option. For more options, see the [Metrics](#) configuration section.

Important A [consensus client](#) of your choice must be running before you start Nethermind. Run Nethermind as follows:

```
nethermind -c mainnet --Metrics.Enabled
```

Alternatively, you may add the `nethermind` service to the `docker-compose.yml` file in the repository root to run everything altogether:

```
docker-compose.yml nethermind : image : nethermind/nethermind : latest container_name : nethermind restart : unless -
stopped ports : - 8545 : 8545 - 8551 : 8551 - 30303 : 30303 ulimits : nofile : soft :
```

```
1000000 hard :
```

```
1000000 command :
```

```
- c mainnet - - Metrics.Enabled true volumes : - ./keystore : /nethermind/keystore - ./logs : /nethermind/logs -
./nethermind_db : /nethermind/nethermind_db In this case, you may want to configure your consensus client similarly. Edit
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```