

# celestia-node metrics

This tutorial is for running metrics for your celestia-node data availability instance. This tutorial will focus on running metrics for a light node.

This tutorial assumes you have already setup your light node by following the tutorial in the [celestia-node API tutorial](#) .

## Running metrics flags

You can enable the celestia-node metric flags with the following command:

```
sh celestia
< node-type
start
--metrics.tls= < boolean
\ --metrics
--metrics.endpoint
< URI
\ --p2p.network
< network
--core.ip
< URI
    celestia
< node-type
start
--metrics.tls= < boolean
\ --metrics
--metrics.endpoint
< URI
\ --p2p.network
< network
--core.ip
< URI
```

Add metrics flags to your node start command and restart your node to apply it. The metrics endpoint will gather your node's data to track your uptime.

Note that the --metrics flag enables metrics and expects an input into --metrics.endpoint .

We will go over what the endpoint will need to be in the [metrics endpoint design considerations](#) section.

## Mainnet Beta

Here is an example for Mainnet Beta:

```
sh celestia
< node-type
start
```

```
--metrics.tls=true
\ --metrics
--metrics.endpoint
otel.celestia.observer
\ --core.ip
< UR I
```

```
    celestia
< node-typ e
```

```
start
--metrics.tls=true
\ --metrics
--metrics.endpoint
otel.celestia.observer
\ --core.ip
< UR I
```

## **Mocha testnet**

Here is an example for Mocha testnet:

```
sh celestia
< node-typ e
start
--metrics.tls=true
\ --metrics
--metrics.endpoint
otel.celestia-mocha.com
\ --core.ip
< UR I
--p2p.network
mocha celestia
< node-typ e
start
--metrics.tls=true
\ --metrics
--metrics.endpoint
otel.celestia-mocha.com
\ --core.ip
< UR I
--p2p.network
```

mocha

## TLS connections

The `--metrics.tls` flag enables or disables a TLS connection to the OpenTelemetry Protocol metrics backend. You need to choose a boolean value (true or false) for this flag.

It's also common to set this flag to false when spinning up a local collector to check the metrics locally.

However, if the collector is hosted in the cloud as a separate entity (like in a DevOps environment), enabling TLS is a necessity for secure communication.

Here are examples of how to use it:

bash

## To enable TLS connection

celestia

< node-type

start

`--metrics.tls=true`

`--metrics`

`--metrics.endpoint`

< URI

`--p2p.network`

< network

`--core.ip`

< URI

## To disable TLS connection

celestia

< node-type

start

`--metrics.tls=false`

`--metrics`

`--metrics.endpoint`

< URI

`--p2p.network`

< network

`--core.ip`

< URI

## To enable TLS connection

celestia

< node-type

```
start
--metrics.tls=true
--metrics
\ --metrics.endpoint
< UR I
\ --p2p.network
< network
--core.ip
< UR I
```

## To disable TLS connection

```
celestia
< node-type
start
--metrics.tls=false
--metrics
\ --metrics.endpoint
< UR I
\ --p2p.network
< network
--core.ip
< UR I
```

## Metrics endpoint design considerations

At the moment, the architecture of celestia-node metrics works as specified in the following [ADR #010](#) .

Essentially, the design considerations here will necessitate running an OpenTelemetry (OTEL) collector that connects to Celestia light node.

For an overview of OTEL, check out [the guide](#) .

The ADR and the OTEL docs will help you run your collector on the metrics endpoint. This will then allow you to process the data in the collector on a Prometheus server which can then be viewed on a Grafana dashboard.

In the future, we do want to open-source some developer toolings around this infrastructure to allow for node operators to be able to monitor their data availability nodes. [\[ \[ Edit this page on GitHub \]](#) Last updated: [Previous page IBC relayers](#) [Next page config.toml guide](#) [\[](#)