



Sign in

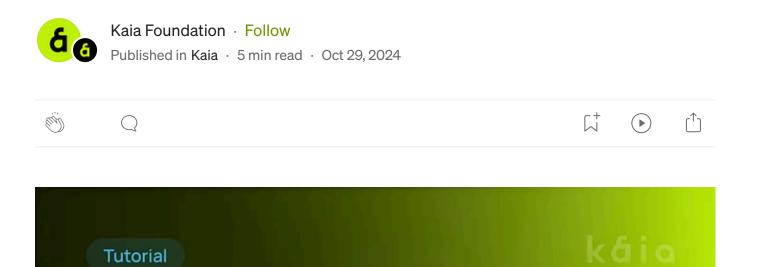


Search





How to Index KIP7 Transfer on Kaia using Envio + Quicknode



Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

Membership

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- Read offline with the Medium app

Sign up for free

Try for \$5/month

optimized blockchain indexing solution, and demonstrate now you can use it to index smart contracts on Kaia using <u>QuickNode</u> RPC Endpoint as a data source.

Prerequisites

Before we start indexing, you'll need the following prerequisites installed.

Getting Started

In this guide, we will launch a basic KIP7 smart contract on Kairos Testnet and primarily index its transfers. Furthermore, we will utilize Envio to index data via an RPC URL. Though this might be suitable for smaller applications, as in this guide, it is recommended to use the <u>HyperSync</u> feature coming to Kaia for blazing-fast indexing.

Launching a Smart Contract

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- √ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

envio init

- 2. Give your indexer a name (e.g. "kaia-token-indexer").
- 3. Choose your preferred language (typescript) and blockchain ecosystem (EVM).
- 4. Choose an initialization option (Template)
- 5. Select the preferred template you'd like to use (ERC20)

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- √ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- Read offline with the Medium app

1. Modifying config.yaml

```
# yaml-language-server: $schema=./node_modules/envio/evm.schema.json
name: erc20indexer
description: ERC-20 indexer
networks:
  - id: 1001 # Kairos Testnet
    rpc_config:
      url: https://responsive-green-emerald.kaia-kairos.quiknode.pro/ # RPC URL
      initial_block_interval: 10000 # Integer
      backoff_multiplicative: 0.8 # Float
      acceleration_additive: 2000 # Integer
      interval_ceiling: 10000 # Integer
      backoff_millis: 5000 # Integer
      query_timeout_millis: 20000 # Integer
    start_block: 166803165
    contracts:
      - name: Evoor
        abi_file_path: ./abis/evoor-abi.json
        address: "0x1F1D5027A1E5817D807458008Ca6Af5C9AD98354" #EVR
        handler: src/EventHandlers.ts
        events:
```

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- √ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

```
newOwner: String!
}
type TokenTransfer {
  id: ID!
  from: String!
  to: String!
  value: BigInt!
}
```

Once you have set up your config file and the schema, you are ready to generate the indexing code required to write the event handlers.

Run the following command:

```
envio codegen
```

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

```
context.TokenTransfer.set(entity);
}
);
```

Starting the Indexer

To start the indexer, run the command below in your terminal:

envio dev

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

2. Navigate to the "Data" tab in the above column to monitor the indexing

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- √ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

senders, recipients, and values. For this guide, we would make the query be ordered by the amount we would like to appear first (in this case: desc = largest amount), who it's from, and the value being transferred.

Once you have selected your desired events, run the query by clicking the play button () to gain access to the real-time indexed data.

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

Kaia is a high performance public blockchain that simplifies Web3 for users, builders, investors, enterprises, and everyone in-between.





We're the team spearheading the ecosystem and technological development of the Kaia blockchain.

No responses yet



What are your thoughts?

Respond

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- Read offline with the Medium app

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

Wow I never thought the day I stop using VS Code would come so soon...

🔶 Jan 18 🔌 1.5K 🗨 69

 C[†]

Lists

Tech & Tools

22 stories · 388 saves

Icon Design

39 stories · 482 saves

General Coding Knowledge

20 stories · 1882 saves

My Kind Of Medium (All-Time Faves)

110 stories · 640 saves

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- ✓ Distraction-free reading. No ads.
- Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- √ Read member-only stories
- √ Support writers you read most
- √ Earn money for your writing
- √ Listen to audio narrations
- √ Read offline with the Medium app

Making ethereum institution friendly & solving the duality of...

(Trigger Warning: This article is technical in nature)

Oct 12, 2024 *** 18

 \Box

The First Uniswap V3 Appchain Launch: Next Chapter in Saga's...

The Uniswap protocol is coming to Saga. Earlier this month, Uniswap V3 was deploye...

Dec 21, 2024 **3** 218 **1**

See more recommendations

Medium

Sign up to discover human stories that deepen your understanding of the world.

Free

- Distraction-free reading. No ads.
- √ Organize your knowledge with lists and highlights.
- √ Tell your story. Find your audience.

- Read member-only stories
- Support writers you read most
- Earn money for your writing
- Listen to audio narrations
- Read offline with the Medium app