Migrating to GraphQL (Alpha)

This content describes an alpha/beta feature or service. These early stage features and services are in active development, so details are likely to change.

This feature or service is currently available in

This guide compares JSON-RPC queries to their equivalent GraphQL counterpart. While it is possible to systematically rewrite JSON-RPC queries (for example, sui_getTotalTransactionBlocks) to their GraphQL counterparts using this guide, it is recommended that you revisit your application's query patterns to take full advantage of the flexibility that GraphQL offers in serving queries that touch multiple potentially nested endpoints (for example transactions, balances, coins), and use the following examples to get a flavor of how the two APIs express similar concepts.

For a comprehensive list of all available GraphQL features, consult the reference .

Refer to Access Sui Data for an overview of options to access Sui network data.

Based on valuable feedback from the community, the GraphQL RPC release stage has been updated from beta to alpha. Refer to the high-level timeline for beta and GA releases in the previously linked document.

The goal is to get the total number of transaction blocks in the network.

The goal is to get the transaction block by its digest.

The goal is to return all Coin<0x2::sui::SUI> objects an address owns.

The cursor is now passed in the after (or before) fields on the connection, and the limit in the first or last fields.

There are also things that GraphQL can do, which JSON-RPC cannot:

This query fetches the latest versions of objects of type 0x2::package::Publisher that are currently live on-chain.

The goal is to find all versions of the Sui framework, and list their modules:

New features

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Related links