## **Trace methods**

Infura provides access to the following trace API methods to allow users to gain insights into the execution of smart contracts and transactions:

- trace block
- trace call
- trace callMany
- trace transaction
- trace filter

info Trace API is currently an open beta feature, available to paying Infura customers. When tracing transactions, the trace diagnostic options are <u>trace</u> and <u>stateDiff</u>.

info trace\_block, trace\_filter, andtrace\_transaction returnstrace information, whereastrace\_call andtrace\_callMany allow you to use thetrace orstateDiff diagnostic options when tracing calls or transactions.

## trace

Provides an ordered trace of the instructions executed by the Ethereum Virtual Machine (EVM) during the execution of a smart contract transaction. Excludes precompiled contracts.

## stateDiff

Displays state changes in the requested block for each transaction, represented as a map of accounts to an object. Lists the balance, code, nonce, and storage changes from immediately before the transaction to after the transaction. For thekey:value pairs:

- +
- indicates the field didn't exist before and now has the specified value.
- .
- · indicates a deleted value.
- .
- · has afrom
- and ato
- value.

An absent value is distinct from zero when creating accounts or clearing storage. For example, when clearing storage, an absent value means that a particular storage slot has not yet been assigned a value, while a zero value means that the storage slot has been assigned and set to zero.

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