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Gas Optimized Transactions

Achieve cheaper gas costs when sending transactions through Alchemy's Gas Optimized endpoints

Optimizing gas values for transactions is one of the most complex and costly areas for developers. This document explains how Alchemy makes this process easier and how you can save money spent on transaction gas.

Get Started

Gas-optimized transactions are available for any Alchemy user via that that transaction endpoint. With this endpoint, developers are able to get rid of the headache of finding optimal gas values when creating transactions and leave the hard work to Alchemy.

Background

Developers and consumers alike spend more than necessary on transaction requests due to:

- 1. Incorrect/inaccurate gas price estimation
- 2. Network congestion
- 3. Much more...

How Gas Optimized Transactions can help

Instead of sending a single transaction directly to a node, developers can send Alchemy a list of signed transactions via thealchemy sendGasOptimizedTransaction endpoint. In the background, Alchemy will:

- 1. Submit the cheapest transaction
- 2. Check to see if the transaction gets mined
- 3. Work its way through the list of signed transactions until it hits the most expensive transaction submitted

Ultimately, Gas Optimized Transactions mean that developers can try a wide range of gas values for a single transaction, removing the guesswork and estimation currently involved in the write process.

FAQ

Help! Why are my transactions failing?

In order for transactions sent viaalchemy sendGasOptimizedTransaction to propagate, you must keep all parameters of the transaction list exactly the same except for the gas values used! Please check that this is correct.

Can I adjust the gas escalation pattern?

For each bundle of transactions sent via thealchemy_sendGasOptimizedTransaction endpoint, Alchemy will attempt each
individual transaction up to 3 times on different nodes with ~4-second intervals between each attempt. If the transaction has
still not been mined and there's no nonce issues preventing it from being propagated, Alchemy will attempt to broadcast the
next highest transaction in a recursive manner. We'd love to understand what other gas escalation patterns you'd like to see

How can I see progress for my transaction bundle?

Alchemy also gives developers the ability to understand how a transaction bundle is progressing by using the alchemy_getGasOptimizedTransactionStatus endpoint, allowing builders to gain visibility into the entire lifecycle of a transaction from inception to on-chain confirmation.

Updated 5 months ago

<u>alchemy_simulateExecutionBundle_alchemy_getGasOptimizedTransactionStatus</u> Did this page help you?Yes No