

Bubs testnet

[Bubs Testnet](#) is a fresh offering from [Caldera](#) with support from Celestia Labs, built with OP Stack and Celestia, and is dedicated to providing developers with an EVM-compatible execution layer to deploy their EVM applications on.

Built with the OP Stack and Celestia

The Bubs Testnet is a testnet rollup, a modified version of optimism-bedrock that uses Celestia as a data availability (DA) layer. This integration can be found in the [@celestiaorg/optimism repository](#). The testnet is hosted by [Caldera](#), who makes it easy to launch rollups with no code required.

In this setup, data handling is accomplished in two ways. Firstly, data is written to the DA layer, in this case, Celestia (on the [Arabica devnet](#)). Then, the data commitment is written to the op-batcher. When reading, the op-node retrieves the data back from the DA layer by first reading the data commitment from the op-batcher, then reading the data from the DA layer using the data commitment. Hence, while previously op-node was reading from calldata on Ethereum, it now reads data from Celestia.

The tools involved in the data handling process include op-batcher, which batches up rollup blocks and posts them to Ethereum, op-geth that handles execution, and op-proposer responsible for state commitment submission.

By using Celestia as a DA layer, existing L2s can switch from posting their data as calldata on Ethereum to posting to Celestia. The commitment to the block is posted on Celestia, which is purpose-built for data availability. This is more scalable than the traditional method of posting this data as calldata on monolithic chains.

Building on Bubs

Bubs Testnet provides a robust environment for developers to test their Ethereum Virtual Machine (EVM) applications. It offers an EVM-compatible execution layer, making it an ideal platform for developers looking to build and test applications in a setting that closely mirrors an OP Stack rollup on Celestia.

Learn more at bubstestnet.com.

RPC URLs

Remote Procedure Call (RPC) URLs are endpoints that allow developers to interact with the blockchain. They are essential for sending transactions, querying blockchain data, and performing other interactions with the blockchain.

For the Bubs Testnet, you can connect to the following RPC URLs:

HTTPS

- <https://bubs.calderachain.xyz/http>

WSS

- <wss://bubs.calderachain.xyz/ws>

This URL serves as the entry point to the Bubs Testnet. You can use it in your applications to connect to the testnet and interact with the smart contracts you deploy there.

Remember, Bubs Testnet is a testing environment!

Faucet

To visit the Bubs testnet faucet, go to <https://bubstestnet.com>.

Explorer

To visit the explorer, go to <https://explorer.bubstestnet.com/>.

Next steps

Now that you have a better understanding of the Bubs Testnet and its integration of OP Stack and Celestia, you can start exploring its capabilities:

- [Deploy a smart contract on Bubs testnet](#)

- [Deploy a GM Portal dapp on Bubs testnet](#)
- [Deploy a smart contract with Thirdweb](#) [\[Edit this page on GitHub\]](#) Last updated: [Previous page Intro to OP Stack integration](#) [Next page Deploy a smart contract on Bubs testnet](#)