Using Axelar ipRPC

Overview

In order to provide decentralized, reliable and public RPC to all developers in the ecosystem, Axelar uses Lava to serve RPC to its developer community. Lava aggregates and routes RPC requests to a peer-to-peer network of top-performing node providers, with built-in fraud detection, conflict resolution, and quality of service guarantees for all requests. All relays are conducted securely with no man-in-the-middle. For more details on Lava's protocol, take a look at the Lava litepaper .

Lava ipRPC aggregates RPC providers and provides a unified endpoint for Axelar's entire ecosystem. Regardless of whether you're using LCD -REST or Full Nodes -TendermintRPC , you can interact with Axelar blockchain. You can also use websockets to establish a continuous connection instead of conducting a discrete handshake for each relay.

Endpoints

A complete list of endpoints available are available here . For ipRPC, please attend only to addresses on the list which haveLava Network as a maintainer. A list is provided below for your convenience, as well!

Mainnet

- Tendermint-RPC
- -https://tm.axelar.lava.build
- Tendermint-RPC Websocket
- -wss://tm.axelar.lava.build/websocket
- REST
- -https://rest.axelar.lava.build
- gRPC
- -grpc.axelar.lava.build:443

Testnet

- Tendermint-RPC
- -https://tm.axelar-testnet.lava.build
- Tendermint-RPC Websocket
- -wss://tm.axelar-testnet.lava.build/websocket
- REST
- -https://rest.axelar-testnet.lava.build/
- gRPC
- -grpc.axelar-testnet.lava.build:443

Usingaxelard

with ipRPC ⚡

You can use youraxelard installation with ipRPC for all calls and requests. To do so, you need to use the Tendermint-RPC URL.

Formainnet use:

./axelard< command> -n https://tm.axelar.lava.build:443 Bash Copy Fortestnet use:

./axelard< command> -n https://tm.axelar-testnet.lava.build:443 Bash Copy Using this schema, allaxelard commands which communicate with the blockchain will be carried out securely and efficiently over Lava ipRPC.

Test Commands

You can send requests to each endpoint directly from the command line without intervention fromaxelard . This can be done with the use of different tools such ascurl for HTTP-responsive protocols,wscat for web sockets, andgrpcurl for gRPC. You can also use any of the endpoints programmatically. Some examples are below:

REST

Send get requests to the appropriate cosmos endpoints!

curl -X GET-H "Content-Type: application/json"
https://rest.axelar.lava.build/cosmos/base/tendermint/v1beta1/blocks/latestcurl -X GET-H "Content-Type: application/json"

https://rest.axelar-testnet.lava.build/cosmos/base/tendermint/v1beta1/blocks/latest Bash Copy

Tendermint

Send post requests to the Tendermint-RPC endpoint!

curl -X POST-H "Content-Type: application/json" https://tm.axelar.lava.build--data '{"jsonrpc": "2.0", "id": 1, "method": "status", "params": []}' curl -X POST-H "Content-Type: application/json" https://tm.axelar-testnet.lava.build--data '{"jsonrpc": "2.0", "id": 1, "method": "status", "params": []}' Bash Copy

Tendermint/Websocket

Connect using websockets over Tendermint-RPC.

wscat-c wss://tm.axelar.lava.build/websocket-x '{"jsonrpc": "2.0", "id": 1, "method": "status", "params": []}' wscat-c wss://tm.axelar-testnet.lava.build/websocket-x '{"jsonrpc": "2.0", "id": 1, "method": "status", "params": []}' Bash Copy

gRPC

Use gRPC calls directly with the Cosmos API.

grpcurl grpc.axelar.lava.build:443 cosmos.base.tendermint.v1beta1.Service/GetLatestBlock grpcurl grpc.axelar-testnet.lava.build:443 cosmos.base.tendermint.v1beta1.Service/GetLatestBlock Bash Copy ✅ The rest is up to you! The possibilities are literally endless!

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