

Across

How to verify Across Bundles Step 1: Install Required Dependencies:

git:

- Documentation: <https://github.com/git-guides/install-git>
-

yarn:

- Documentation: <https://classic.yarnpkg.com/lang/en/docs/install/#mac-stable>
-

node.js

- Documentation: <https://nodejs.org/en/download>
- Run the following command to check what version of node you are running: `node -v`
- Make sure it is greater than 16.18.0.
-

redis:

- Documentation: <https://redis.io/docs/getting-started/installation/>
- Note: Follow the [relayer-v2 README](#)
- instructions
-

ts-node

- You can use the following to install globally: `npm install -g ts-node`
-

Nvm (optional)

- Documentation: <https://github.com/nvm-sh/nvm#installing-and-updating>
- Note: Optional, but nvm allows you to easily install and switch between node versions
-

VS Code (optional)

- Highly recommend using a code editor like VS code.
-

Step 2: Clone the relayer-v2 repo:

- If using VS code, open the terminal and run the following command:
-

...

Copy git clone <https://github.com/across-protocol/relayer-v2>

...

Step 3: Run Redis

Open a terminal window and run:

...

Copy redis-server From the README, run the three commands: `cd relayer-v2 yarn install yarn build`

...

Step 4: Environment Variables

- Change the `.env.example` file to `.env`
- In line 8 and 9, uncomment either the `MNEMONIC` or `PRIVATE_KEY` and input a private key that has no money on it.
- - I used <https://vanity-eth.tk/>

- - to create a private key to use for the demo but again, do not use one that has any money on it as it is an unnecessary risk.
- *
- Sign up for an Infura account <https://www.infura.io/>
- and click 'Create New API Key'. After you create the key, you should see a list of endpoints for each network.
- In the .env file, update the following env variables to the URL for your infura account. The underscore number at the end of the variable represents the chain ID. So RPC_PROVIDER_ALCHEMY_1 is mainnet.
- - You can use <https://chainlist.org/>
- - to find the ID by network.
- - Include the NODE_URL_324 for zkSync below even though it hasn't been added to the .env.example file yet:
- *
-

...

```
Copy RPC_PROVIDER_ALCHEMY_1=https://eth-mainnet.g.alchemy.com/v2/{API_KEY}
RPC_PROVIDER_ALCHEMY_10=https://opt-mainnet.g.alchemy.com/v2/{API_KEY}
RPC_PROVIDER_ALCHEMY_137=https://polygon-mainnet.g.alchemy.com/v2/{API_KEY}
RPC_PROVIDER_ALCHEMY_42161=https://arb-mainnet.g.alchemy.com/v2/{API_KEY}
NODE_URL_324=https://mainnet.era.zksync.io
```

...

Step 5: Run the script

The below is an example, however the two changes that need to be made based on the request are:

- REQUEST_TIME=CHANGE_THIS_TO_THE_TIMESTAMP
- I used privateKey for the below, however, if you used mnemonic in your env variables, it should be changed to --wallet mnemonic
-

Note: The first time you run this, it is going to take a long time.

```
REQUEST_TIME=1692110627 ts-node ./src/scripts/validateRootBundle.ts --wallet privateKey
```

When the script finishes running, check the Validation results as shown below. The below shows an example of an invalid bundle as it shows "valid": false:

...

```
Copy { "at": "RootBundleValidator", "message": "Validation results", "rootBundle": { "poolRebalanceRoot":
"0x7005c47a8e476a2551d5325a6c53cd5b71f308b2ac670742ad7cceb8078a193f", "relayerRefundRoot":
"0x9edefc2fc000e71fa1ea1c6ce666a0f8cb2d6da422c45a372585da5e3b738713", "slowRelayRoot":
"0x0000000000000000000000000000000000000000000000000000000000000000", "proposer":
"0xf7bAc63fc7CEaCf0589F25454Ec5C2ce904997c", "unclaimedPoolRebalanceLeafCount": 5,
"challengePeriodEndTimestamp": 1692117191, "bundleEvaluationBlockNumbers": [ 17920824, 108255396, 46338509,
977154, 121659934, 11305323 ], "proposalBlockNumber": 17920860 }, "valid": false, "invalidReason": "Disputed pending
root bundle:\n..... // removed the rest of the invalidReason for the example
```

...

Appendix

For additional documentation on Across root bundles, visit:

<https://docs.across.to/v/developer-docs/how-across-works/overview/disputing-root-bundles>
<https://docs.across.to/v/developer-docs/how-across-works/overview/validating-root-bundles>

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