

Web3 Wallet Extension

Here I used the ReactJs+vite to build a web3 wallet extension. This extension is a simple wallet that allows you to create a new wallet, import an existing wallet, and send transactions.

- dev link: <https://web3-wallet-extension.vercel.app>

Features

- Create a new wallet
- Import an existing wallet
- View wallet balance
- Send transactions
- View transaction history
- Logout (clear wallet data from local storage)

Local storage is used to store the wallet data. So, if you clear the local storage, you will lose your wallet data.

Local storage is not secure. Do not use local storage to store sensitive data. Use cookies or secure storage instead.

Tech Stack

- ReactJs (with typescript)
- Vite
- Tailwind CSS
- Ethers.js v6
- Amoy polygon network
- Alchemy API (for polygon network rpc)
- PolygonScan API (for address balance and transaction history)

Run Locally

First, run the development server:

```
npm run dev
# or
yarn dev
# or
pnpm dev
# or
bun dev
```

Open <http://localhost:5173> with your browser to see the result.

Load the Extension into Chrome

1. Open Chrome and navigate to `chrome://extensions/`
2. Enable `Developer mode` by toggling the switch in the top-right corner.
3. Click `Load unpacked` and select the `out` folder generated by the build process.

Test Your Extension: You should see your extension in the Chrome toolbar. Clicking on it should display our output.

Demo accounts

- Account1 (created here)
 - Address: `0x042331667E5b2723688570DF3ceF900032bff9D5`
 - Your 12 Phrase Mnemonic: `harbor concert spring gun remember replace boil depart concert rather ice fragile`
 - Private Key: `0x819148df03587ba6b4c2135fbd68e3bea50bb116bb51feedde595ea7744ae61b`
- Account2 (metamask)
 - Address: `0xC541CBBD2d82cc44b38AE5ff7415fE63D0eCDe50`
 - Your 12 Phrase Mnemonic: `tube ensure egg popular trust dumb lucky collect major burden hidden empower`
 - Private Key: `0x7a960b5e35ea0f64271d32957e1d24d27d1e1f7f235f840f0763f1c85b2fbddb`

Amoy faucet

- <https://faucet.polygon.technology/>
- <https://www.alchemy.com/faucets/polygon-amoy>
- <https://faucets.chain.link/polygon-amoy>

Web3 Wallet on Polygon Amoy

Logout

A/C Address:
0x042331667E5b2723688570DF3ceF900032bff9D5

12 Phrase Mnemonic:
harbor concert spring gun remember replace boil depart concert rather ice fragile

Private Key:
0x819148df03587ba6b4c2135fbd68e3bea50bb116bb51feedde595ea7744ae61b

Transfer

Balance: 0.213822 POL

Destination Address:

Amount:

Send 0 POL

Transactions

Hash	From	To	Amount	Status	Timestamp
0x474...f91	You	0xd4c...76f	0.001000 POL	✓	15/01/2025, 12:05:33
0xd7a...1bd	0x54d...817	You	0.200000 POL	✓	14/01/2025, 21:30:17
0x321...928	0xc54...e50	You	0.000010	✓	14/01/2025,

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