

# Truffle-React-Redux

The truffle-react-redux provide the template(box) for your next dapp with React (and Redux, Route, Internationalization). The template separate the concern of contracts and web frontend as sub projects and include glue scripts to bridge the both sides.

## Installation

1. Install Truffle
2. ,Lerna
3. ,ganache-cli
4. globally.
5. npm
6. install
7. -g
8. truffle
9. lerna
10. ganache-cli
11. Download the box. This also takes care of installing the necessary dependencies.
12. truffle
13. unbox
14. gasolin/truffle-react-redux
15. (This step will be done automatically after unbox.) Glue script can help you to install contracts/
16. and web/
17. project dependencies at once via [lerna bootstrap](#)
18. npm
19. run
20. bootstrap# or you can install dependency modules in sub projects via separate commands
21. cd
22. contracts
23. &&
24. npm
25. install
26. ../web
27. &&
28. npm
29. install

## Run the test chain

1. Run the test chain via

npm run chain The test chain will always start with the same address/accounts. Check Test chain detail section for more detail.

## Contracts development

Enter contracts/ folder

1. Run the development console.
2. truffle
3. develop
4. Compile and migrate the smart contracts. Note inside the development console we don't preface commands with truffle
5. . Smart contract changes must be manually recompiled and migrated.
6. compile
7. migrate# If outside the development console..
8. npm
9. run
10. build
11. Glue scripts can copy compiled JSON files into web/src/lib
12. to access contract.

npm run deploy 1. Truffle can run tests written in Solidity or JavaScript against your smart contracts. Note the command varies slightly if you're in or outside of the development console.# If inside the development console. 2. test 3. # If outside the development console.. 4. truffle 5. test 6. # glue script 7. npm 8. run 9. test

# Web development¶

Enter web/ folder

1. Run the front-end hot reloading in web/
2. (outside the truffle development console).
3. //
4. Serves
5. the
6. front-end
7. on
8. http://localhost:8080
9. npm
10. run
11. start
12. Build the web project for production.

npm run build 1. Create-react-app can run tests within src/ folder.

npm run test

## What Does Truffle-React-Redux offer?¶

The contracts/ sub project contains normal contracts and was bootstrapped with [truffle init](#) command.

The web/ sub project was bootstrapped with [Create React App](#) and has pre-configured React and Redux basic settings with [react-router](#) and [react-intl](#). You can access the blockchain via pre-configured `reduxstate.web3`, `state.accounts`, `state.contracts`, `state.transactions` (via [drizzle](#)), or use `lib/web3utils` directly without Redux state.

The template provides top level scripts so you can compile and deploy contracts via `npm run compile`, `npm run migrate` commands, or run the app in the development mode via `npm start` command without entering the sub project folders.

The glue scripts also help manage contracts and web sub projects by installing dependency modules and copying compiled JSON into `web/src/lib` for accessing contracts.

## Dependencies¶

### Whole project¶

- [lerna](#)
- Manage contracts/
- and web/
- project.

command description bootstrap install sub project dependencies chain run a test chain compile compile contracts migrate migrate contracts start Runs the web dapp in the development mode publish pump sub project packages version

### Contracts sub project¶

- [truffle](#)
- : Build, debug, deploy the smart contracts.

command description truffle compile compile contracts truffle migrate migrate contracts Read more in <http://truffleframework.com/docs/>

### Web sub project¶

- [Create React App](#)
- : Create React apps with no build configuration.
- [Redux](#)
- : State management.
- [redux-devtools-extension](#)
- [drizzle](#)
- : Redux store for web3 and smart contracts. Maintains access to underlying functionality ex: Web3 and your contract's methods.
- [react-router](#)
- : Declarative routing for React
- [react-intl](#)

- : Internationalize React apps
- [redux-logger](#)
- Logger (middleware) for Redux in development

command description  
 npm start Runs the app in the development mode  
 npm test Launches the test runner in the interactive watch mode  
 npm test -- --coverage Run test once and show the test coverage  
 Read more in <https://github.com/facebook/create-react-app/blob/master/packages/react-scripts/template/README.md>

Test chain detail

## Available Accounts

(0) 0x1d489c3f8ed5ee71325a847888b2157c9ac29c05 (~100 ETH) (1) 0x1ce421937a6f59bf58faafe316d23aaed690da18 (~100 ETH) (2) 0x6dbc30ff01a1066ba5af9dfa7b838f4932995b4b (~100 ETH) (3) 0x4a6bfc37b3f0f511310e6d0e4dcbdac99f5899c5 (~100 ETH) (4) 0xfd1f713d6e8101aab1aeaaec4aad7380442d6042 (~100 ETH) (5) 0x4db199fefe8b4a1cd8027c546519498b75e77292 (~100 ETH) (6) 0xba27d6c39dfa9d2a42f91aa5043817c325ec7b43 (~100 ETH) (7) 0x35ace72f822f3adbd4cfa633358d5ed7161fa76e (~100 ETH) (8) 0x68ad18971b17c434aa39f022451c29bdb99e19bf (~100 ETH) (9) 0xc6b346f43e3a1a60ef3d378d07486fb518f5eb2b (~100 ETH)

## Private Keys

(0) 0xbea70301d065cf7946f25251c73dbfff93d4320715e43bdc0d5087553074cb64 (1) 0x8c90c6365f62ff46b3a04edc5dbae3f401f36a50ce5f6da03ba12c08d8a72478 (2) 0xfa2fe8493616350833f4e8979276e0297dab4db889e18a8a33a49c024d3888f0 (3) 0x52f3756c688192c59d372825a2a581ed685a6efe032a343116cf5ed084f7d713 (4) 0xe7ea2af66e409f10ad4e3a06496b59c230363988879a1609d8fa5414c25feb2a (5) 0xaab4090f43e729d2d04f34c93ed441c9903be85c0a227922cb66aac705a6a0da (6) 0x5bbd4586b26aa73bbc162e8ab9e3c13b44fd204434f5fac7d57b256bdae09ef4 (7) 0xf63ca261915e41c1f2dcb8535ce14c5b1e675f3ff01515de820819477d37812c (8) 0xf15be1c6e435585c3b8e568167dd7067c0fc732422421e1f9f3e437ae65a6ce8 (9) 0x55b842b841e2e082d178d7a63c95288f90bb69354064e75c2e6cb7d94f7ecada

## HD Wallet

Mnemonic: mandate wagon sample embrace law ghost join friend tray onion dose dynamic  
 Base HD Path: m/44'/60'/0'/0/{account\_index}

## Gas Price

20000000000

## Gas Limit

6721975

Listening on 127.0.0.1:8545

Support Developer Team

Iftruffle-react-redux made your life easier and you like it and want to help us improve it further or if you want to speed up new features, please, support us with a tip. We appreciate all contributions!