

# Setup

ContractKit requirements, installation, and initialization.

## Installation and System Requirements

To install, run the following:

- npm
- Yarn
- pnpm

npm

install web3@1.10 @celo/contractkit yarn

add web3@1.10 @celo/contractkit pnpm

add web3@1.10 @celo/contractkit You will need Node.js v18.x.

## Initializing the Kit

To start working with ContractKit you need akit instance and a valid net to connect with. In this example will usealfajores (you can read more about it [here](#) )

import Web3 from

"web3" ; import

{ newKitFromWeb3 }

from

"@celo/contractkit" ;

const web3 =

new

Web3 ( "https://alfajores-forno.celo-testnet.org" ) ; const kit =

newKitFromWeb3 ( web3 ) ; Go to the [page about Forno](#) for details about different connection types and network endpoints.

## Initialize the Kit with your own node

If you are hosting your own node (you can follow [this guide](#) to run one) you can connect our ContractKit to it.

import

Web3

from

"web3" ; import

{ newKitFromWeb3 }

from

"@celo/contractkit" ;

// define localUrl and port with the ones for your node

const web3 =

new

Web3 ( { localUrl } : { port } ) ; const kit =

newKitFromWeb3 ( web3 ) ; Same asWeb3 we supportWebSockets ,RPC and connecting viaIPC . For this last one you will

have to initialize thekit with an instances ofWeb3 that has avalid IPC Provider

```
import Web3 from
```

```
"web3" ; import
```

```
{ newKitFromWeb3 }
```

```
from
```

```
"@celo/contractkit" ;
```

```
const web3Instance : Web3 =
```

```
new
```

```
Web3 ( new
```

```
Web3 . providers . IpcProvider ( "/Users/myuser/Library/CeloNode/geth.ipc" , net ) ) ;
```

```
const kit =
```

```
newKitFromWeb3 ( web3Instance ) ;Edit this page Previous Celo ContractKit Next Using the Kit
```