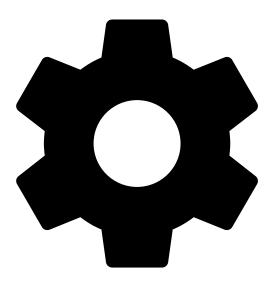
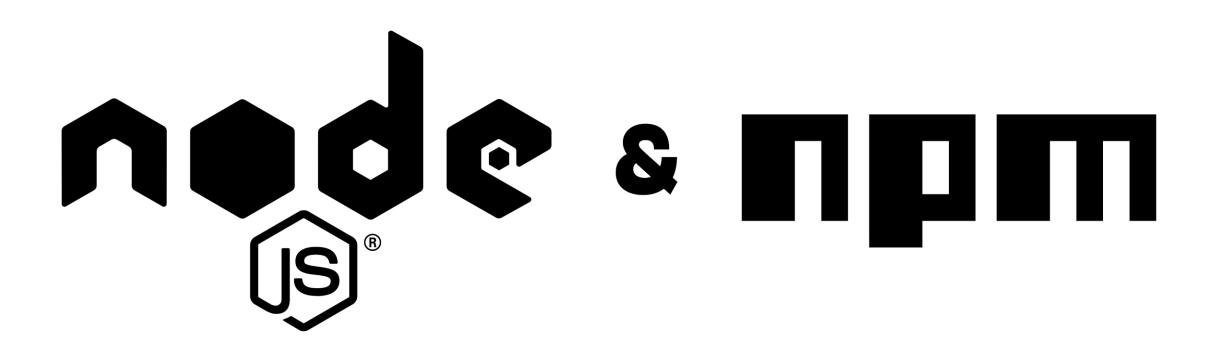
GETTING STARTED



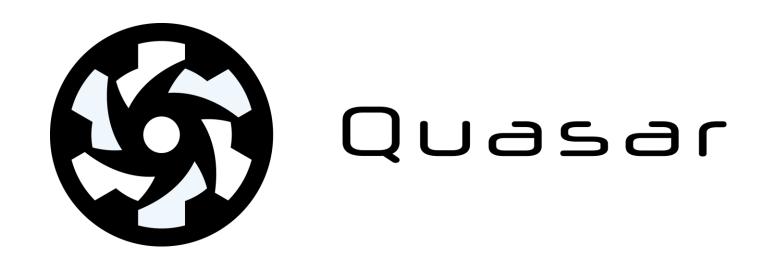
Setup steps for EasyFHE usage

PRE-REQUIREMENTS



https://nodejs.org/en/download/

INSTALLING



Open the terminal and type the following command:

npm i -g @quasar/cli

CREATING THE QUASAR PROJECT



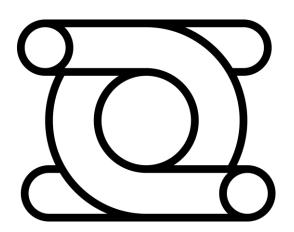
Open the terminal and type the following command:

npm init quasar

Go in 'quasar.config.js' and add to the build property the following:

```
extendWebpack(cfg) {
    cfg.experiments = {
        asyncWebAssembly: true,
    };
},
```

CREATING THE QUASAR PROJECT



Open the terminal and type the following command:

git clone https://github.com/mihailpreda/fhe-module-typescript-wrapper.git easyFHE

cd easyFHE

npm install

Then go to Quasar project's 'package.json' file and add EasyFHE to dependencies like:

easyFHE: file:../easyFHE

USAGE EXAMPLE

```
1 <script lang='ts'>
2 import getEasyFHE, {
 6 EasyFHE,
7 } from 'easyFHE';
8 (async () => {
     const easyFhe: EasyFHE = await getEasyFHE();
      await easyFhe.Setup.initialize();
    EasyScheme.BFV,
        EasySpeed.FAST,
      const [publicKey, secretKey] = easyFhe.generateKeys();
       const leftValue0 = easyFhe.encrypt(Int32Array.from([3]), publicKey);
       const rightValue0 = easyFhe.encrypt(Int32Array.from([6]), publicKey);
       const encResult0 = easyFhe.Cipher.add(leftValue0.save(), rightValue0.save());
       const result0 = easyFhe.decrypt(encResult0.save(), secretKey);
      easyFhe.deallocateLibrary();
      publicKey.delete();
      secretKey.delete();
31 })()
32 </style>
```

CONTACT



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