ReactJS

*We have already installed **npm and node** in our vms.*

We have to install **create-react-app** utility tool.

sudo npm -g install create-react-app

```
bibek@bibek-lfTechnology:~/react$ sudo npm -g install create-react-app
[sudo] password for bibek:
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and w
ill not receive security updates. Please upgrade asap.

added 67 packages, and audited 68 packages in 5s

4 packages are looking for funding
  run `npm fund` for details

2 high severity vulnerabilities

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.
bibek@bibek-lfTechnology:~/react$ create-react-app devops-assignment
```

To create a sample of react app

create-react-app devops-assignment

```
bibek@bibek-lfTechnology:~/react$ create-react-app devops-assignment

Creating a new React app in /home/bibek/react/devops-assignment.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

⬛              ⠴ idealTree:devops-assignment: sill idealTree buildDeps
```

```
Success! Created devops-assignment at /home/bibek/react/devops-assignment
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd devops-assignment
  npm start

Happy hacking!
bibek@bibek-lfTechnology:~/react$ █
```

We can see the directory and all the packages

```
Happy hacking!
bibek@bibek-lfTechnology:~/react$ ls
devops-assignment
bibek@bibek-lfTechnology:~/react$ cd devops-assignment/
bibek@bibek-lfTechnology:~/react/devops-assignment$ ls
node_modules  package.json  package-lock.json  public  README.md  src
bibek@bibek-lfTechnology:~/react/devops-assignment$ █
```
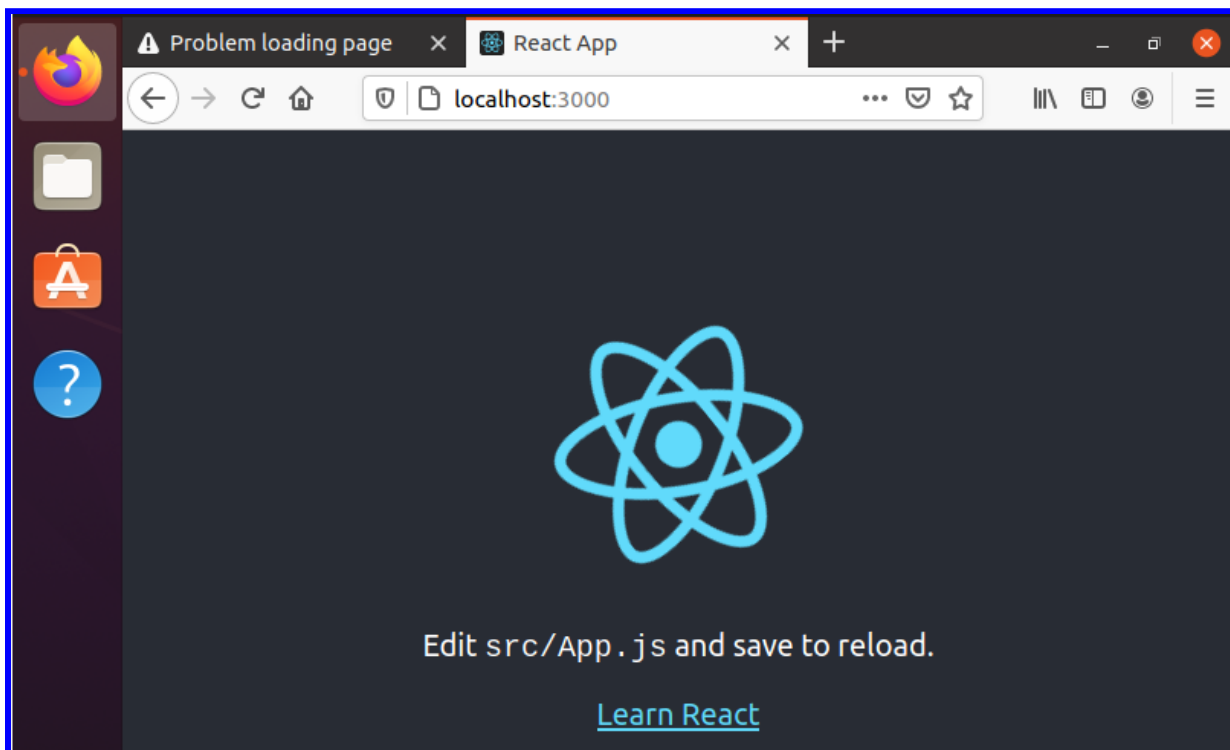
To start react app

npm start   -- *in root directory*

```
bibek@bibek-lfTechnology:~/react/devops-assignment/public$ cd ..
bibek@bibek-lfTechnology:~/react/devops-assignment$ npm start

> devops-assignment@0.1.0 start
> react-scripts start

█
```

```
Compiled successfully!

You can now view devops-assignment in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.1.145:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

█
```


Edit src/App.js and save to reload.

Learn React

To change the port and the message

Make .env file in the root directory where package.json are situated

vi .env

And define **PORT=3001**

Save and exit

For message

Edit App.js in src directory

vi src/App.js

```
import logo from './logo.svg';
import './App.css';

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <img src={logo} className="App-logo" alt="logo" />
        <p>
          Hello React.js || Devops Internship Assignment
        </p>
        <a
          className="App-link"
          href="https://reactjs.org"
          target="_blank"
          rel="noopener noreferrer"
        >
          Learn React
        </a>
      </header>
    </div>
  );
}

export default App;
```

Again Start the react app

npm start

```
Compiled successfully!

You can now view devops-assignment in the browser.

  Local:            http://localhost:3001
  On Your Network:  http://192.168.1.145:3001

Note that the development build is not optimized.
To create a production build, use npm run build.
```

Now it opens at port 3001 with message changed