

Module Federation

what the hell is Module Federation?

Module federation is a way to:

Share code dynamically between frontend applications

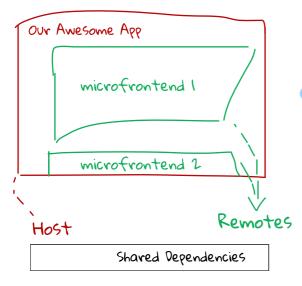
* Microfrontends

But, Mhy???

Similar to microservices on the server-side

- Code Sharing: Share libraries and components across applications without needing a shared repository.
- Independent deployments: Teams can deploy their applications independently

Concepts



teams can work on separate, independently deployable frontend pieces called a Remote which can be integrated into a cohesive application called a Host

remotes and host applications can have shared dependencies between host and remote applications



6etting Started

In your webpack.config.js of the app exposing modules:

Personal Recommondations

- O use the same React version
- Ouse Rsbuild as compiler for both sides
- () add UID to your remote entry file name to insure synchronisation



```
const { ModuleFederationPlugin } =
require("webpack").container;
plugins: [
  new ModuleFederationPlugin({
    name: "remoteApp",
    filename: "remoteEntry.js",
    exposes: {
       "./CoolComponent": "./src/CoolComponent",
    },
    shared: ["react", "react-dom"]
})
```

Remote

The one exposing component or app

File or files to export you can export your entire index file

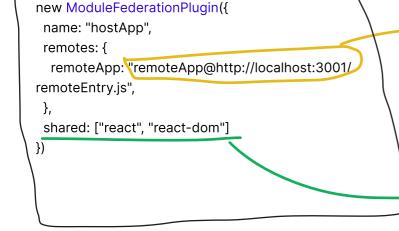
Host

the one that hosts remotes

Served instance of the remote

Both remote and host should be served with different ports

shared packages and libraries





Now just import and voilaa!

const CoolComponent = React.lazy(() ⇒ import("remoteApp/CoolComponent"));

