

This post outlines how I got pnpm workspaces to work in a monorepo containing React and React Native projects. I will explain key components in our pnpm workspaces configuration and walk through the errors I got trying to get this to work.

Prerequisite Knowledge

- In pnpm workspaces, every module's packages are stored at a top-level `node_modules/.npm` folder (the pnpm store).
- In individual project folders, `node_modules` contains symlinks to this pnpm store

Overview of our pnpm Workspaces Configuration

We have a shared package in `'packages/'`. We import this package using `'<package-name>: '*'` in `package.json`.

We use Turbo for running projects and installing dependencies efficiently.

Errors I Encountered and Fixes

Error: 'Invalid hook call'

Fix: Some packages like React and React Native must be pinned to specific versions. This part of our [`metro.config.js`](#) fixes this (Singleton Pinning)

```
const singletons = [
  'react',
  'react-native',
  'expo',
  'expo-router',
  'expo-modules-core',
  'expo-constants',
  '@expo/metro-runtime',
];
config.resolver.extraNodeModules = singletons.reduce((acc, name) => {
  acc[name] = path.resolve(projectRoot, 'node_modules', name);
  return acc;
}, {});
```

Error: Missing transitive dependencies

Fix: Make sure to not use `disableHierarchicalLookups: true`. This will prevent pnpm from locating packages in the pnpm store. This part of our Metro config solved this problem:

```
config.watchFolders = [path.resolve(monorepoRoot, 'packages'),  
path.resolve(monorepoRoot, 'node_modules/.pnpm')];  
  
config.resolver.unstable_enableSymlinks = true;  
config.resolver.unstable_enablePackageExports = true;  
  
// Resolve from app's node_modules first, then root .pnpm for transitive deps  
config.resolver.nodeModulesPaths = [  
  path.resolve(projectRoot, 'node_modules'),  
  path.resolve(monorepoRoot, 'node_modules'),  
  path.resolve(monorepoRoot, 'node_modules/.pnpm/node_modules'),
```

Error: Missing non-transitive dependency

Fix: Install the packages with `npx expo install`, this will make sure compatible versions with your Expo version are used.