

GitHub NPM Registry

**Use GitHub as package registry for your
private packages**

Scopes

- Some package names also have a scope
- A scope follows the usual rules for package names. When used in package names, scopes are preceded by an "@" symbol and followed by a slash, e.g.

```
@scopename/somepackagename
```

Checklist

- package name contains a scope which matches the GitHub organization / username name (lowercased)
- npm config set GitHub registry URL for specific scope(s)
- npm config to have NPM_TOKEN configured

Package Name

The package's "scope" must match the lowercased organisation's name.

package.json

```
{  
  "name": "@egoditor/somepackagename"  
}
```

Name is lowercased cause naming convention doesn't allow uppercase letters.

Registry

Configure `npm` to use a different package registry URL for specific scope(s). Note that the Organisation's name must exact match here. **Do not lowercase!**

```
npm config set --@Egoditor:registry --location project https://npm.pkg.github.com/
```

or

```
npm config set --@Egoditor:registry https://npm.pkg.github.com/
```

NPM Token

Using private NPM Packages from GitHub registry require a *personal access token* (PAT) with "write:packages" for publishing and/or "read:packages" for pulling.

```
npm config set //npm.pkg.github.com/:_authToken <token-value>
```

or login

```
npm login --scope=@Egoditor --registry=https://npm.pkg.github.com
```

Personal Access Tokens can be created in the GitHub Settings > "[Personal Access Tokens](#)".

GITHUB_TOKEN vs. NPM_TOKEN

The github workflow environment automatically creates a secret `GITHUB_TOKEN` which can be used to publish and clone private packages.

Install Local Package

npm link

Before publishing a version use the local copy of the package in your project by linking it:

```
cd my-new-project  
npm link ../../egoditor/my-funky-package
```

Troubleshooting

npm ERR! Unable to authenticate, need: Basic realm="GitHub Package Registry"

The NPM Token is not valid, doesn't have the correct permissions. Double check the value.

npm ERR! 404 Not Found - GET <https://npm.pkg.github.com/download/@egoditor...>

Authentication worked well but the package could not be found as the scope is not correct. Correct would be with uppercase "e".

Additional Resources

- [GitHub Documentation](#)
- [NPM config Documentation](#)



**Thanks for
listening!**