the NODE FIRM

NPM WITH KAPPA

NPM

- Is a CouchDB application
- Is the central registry of all public Node packages
- Has no support for "private" packages in the public registry
- Many private registries currently replicate the entire public registry

WHAT IS KAPPA?

- A proxy application to support private npm registries
- Makes the public registry available without replicating it
- Keeps private packages out of the public registry
- Written by PayPal, based on npm-delegate

HOW DOES IT WORK?

- *Private registry:*
  - Runs the same CouchDB application as the public registry
  - Only contains internal user data and private npm packages
  - Used for all *user* and *write*-operations

- *Public registry:*
  - Only used for *read*-operations for public packages

HOW DOES IT WORK?

- For `npm install` *(and other read-operations):*
    - First check internal registry:
        - Exists? Return data from internal registry
        - Does not exist? Continue...
    - Check public registry and return data (or 404)

THE KAPPA WORKFLOW
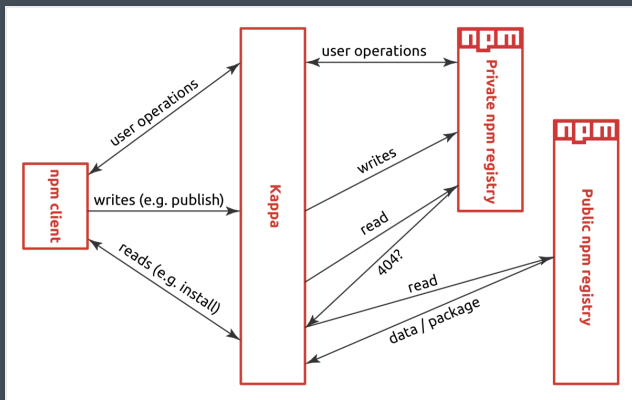
NPMRC

- A simple Bash script to manage configurations for multiple registries
- Stores .npmrc files in ~/.npmrcs/

Install and set-up

```
$ sudo npm install -g npmrc
$ npmrc

Creating /home/me/.npmrcs
Making /home/me/.npmrc the default npmrc file
Activating .npmrc 'default'
```

NPMRC

Add and configure new profile

```
$ npmrc -c public

Removing old .npmrc (/home/me/.npmrcs/default)
Activating .npmrc 'public'

$ npm adduser

Username: myusername
Password:
Email: myusername@paypal.com
```

Repeat for "nodefirm"

```
$ npmrc -c nodefirm
$ npm config set registry http://kappa.forge.nodefirm.com/
$ npm adduser
```

Switch

```
$ npmrc default
$ npmrc public
$ npmrc nodefirm
```

USING KAPPA

Publish a package to "nodefirm" Kappa

```
$ npmrc nodefirm
$ mkdir /tmp/${USER}-private
$ cd /tmp/${USER}-private
$ npm init
...
$ cat > index.js << EOF
module.exports = function () { return "$USER"; }
EOF

$ npm publish
$ npm view ${USER}-private
```

Install and use your new package

```
$ mkdir /tmp/kappa-test
$ cd /tmp/kappa-test
$ npm install ${USER}-private

$ cat > index.js << EOF
var pkg = require('${USER}-private');
console.log('pkg said:', pkg());
EOF

$ node .
```

RESET TO PAYPAL REGISTRY

```
$ npmrc default
$ npm config get registry
➜  http://npm.paypal.com/
```