NPM

Node Package Manager

What is NPM

- When building large applications it’s important to split you project to multiple modules/packages
- with npm you can
  - Use community packages
  - Publish your package
  - Maintain package version and easily update the package you are using
- npm started as NodeJs backend package manager but today it’s also used to install frontend package

Install NPM

- Install NodeJs - npm arrives with node
- https://nodejs.org/en/
- you can verify npm is installed by typing: **npm -v**

package.json

- each project or module that has use of npm will have a **package.json** file
- The file will contain information on the current project you are creating
- Information includes:
  - package name
  - package version
  - dependencies
  - devDependencies
  - peerDependencies
  - author
  - git repo
- to create **package.json** file: **npm init** or **npm init --yes**

Install NPM package

- a package can be installed local or global
- if installed locally the package will be added to the **node_modules** folder where you **package.json** file is located
- local: **npm install <package-name> --save/--save-dev**
- global: **npm install -g <package-name>** (might require admin privileges)
- must of the packages we will install localy, global package are usually used to add programs to the command line
- the **--save/--save-dev** will determine where to save the package version in the **package.json**
- it’s recommended not to push **node_modules** to the repository

Uninstall Package

- npm uninstall <package-name> --save
- npm uninstall <package-name> --save-dev
- npm uninstall -g <package-name>

Scoped Packages

- namespaces for npm modules
- used for grouping related packages together
- scope begins with @
- recommend to prefix company private packages with prefix **@hcl**
- you can create a private npm repo and make all the scoped packages be pushed to private repo
- https://github.com/verdaccio/verdaccio