# Build configuration

## Overview

The platform uses Maven as its primary build tool, therefore all builds are done solely by Maven.

Depending on the target environment the configurations and module dependencies will be different. The platform heavily utilises Maven profiles functionality in conjunction with filtering in order to accommodate this flexibility.

As described in installation guide some profiles are built in to provide a framework for configuring environment specific builds. Some of these profiles are used to manipulate Maven build variables, some are used for provision of extra dependencies such as DB drivers and optional modules.

For example by specifying **derby** profile we accomplish two things:

- add the derby driver dependency
- modify **env.db** variable which is used to include the appropriate filter file **config-db-${env.db}.properties** resulting in config-db-derby.properties being used to provide DB settings

Depending on the environment of course we could have different configuration, such as different connection properties for DB thus all environment specific settings are grouped into directories under **YC_HOME/env/maven**

Each directory represents a **complete** set of configuration files necessary for building artefacts for that environment. The selection of the environment directory is also controlled by a variable **env** which is set via profile. So if we use **-Pdev** we use configuration files from **YC_HOME/env/maven/dev** and if we use **-PdevIntellijIDEA** we use configuration files from **YC_HOME/env/maven/dev-idea**.

Note that some profiles set multiple variable that are optimal for creating build for that specific environment. For example **dev** and **devIntellijIDEA** apart from setting basic environment variables also configure **npm** goals, modules and target directories. This is because jam-jsclient is built in two modes: development (where deployment consists of compiled source files) and prod (bundled and minified version).

Developers are advised to examine the example configuration files to gain full understanding what configuration file is used for which functionality and configure it correctly for **ci**, **uat** and **prod** environments, which are specifically left empty.