

Committers Guide

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This guide contains procedures to be performed by committers/maintainers of this codebase.

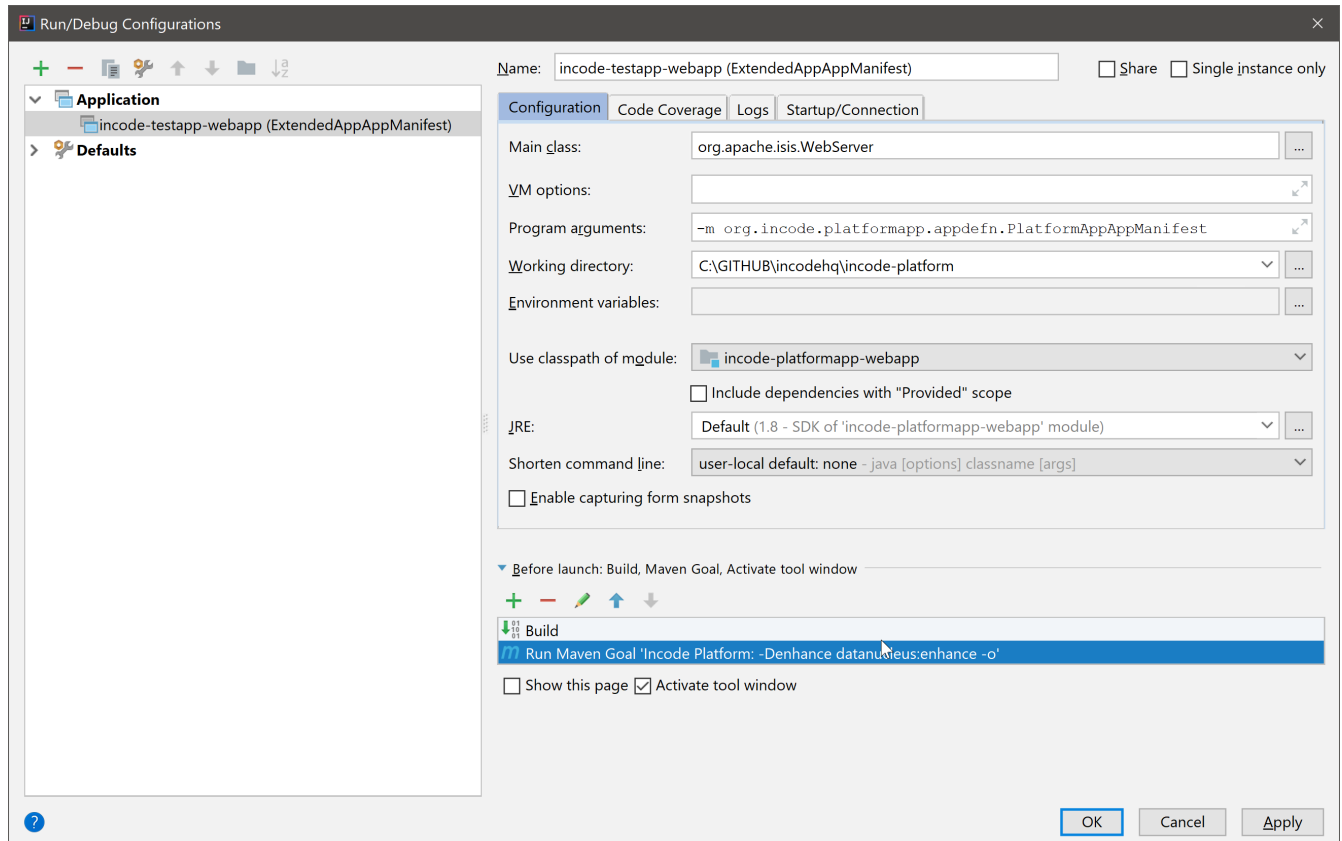
Build process

As described in the [contributors' guide](#), to build the platform simply use:

```
mvn clean install
```

from the root directory.

If developing new versions of the platform, use the `platformapp` webapp project. This can be run from the IDE in the usual way:



That is:

- use `org.incode.platform.appdefn.PlatformAppAppManifest` as the app manifest implementation
- use `mvn -Denhance datanucleus:enhance` in the root directory to enhance JDO entities prior to running the app.

Integration tests for individual modules can be run from the IDE; each modules integration tests resides in its own Maven module.

Interim Releases

As noted in the [home page](#), interim releases of the Incode Platform source are available at [repo.incode.cloud](#).

To trigger new releases, all that is required is to set up gitlab repo as an alternate remote in [.git/config](#):

```
[remote "gitlab"]
  url = https://gitlab.com/incodehq-public/incode-platform.git
  fetch = +refs/heads/*:refs/remotes/gitlab/*
```

Pushing to this remote will trigger a CI build that will automatically upload a new release to [repo.incode.cloud](#).

Release to Maven Central

This section describes the steps to release the platform to Maven central. There are four step:

- release the modules
- recreate the quickstart archetype (referencing the just-released modules)
- release the quickstart archetype

The release process uses Sonatype's OSS support (see the "[producers](#)" user guide and associated subdocuments). Our thanks to them for providing this service.

One-off Prereqs

Apply for access to release [org.incode](#).

- create an account on [issues.sonatype.org](#)
- create a ticket requesting permissions to release [incode.org](#)

Use [OSSRH-28156](#) as a template. Also of interest might be the original requests for [incode.org](#) ([OSSRH-18045](#) and [isisaddons.org](#) ([OSSRH=10641](#))).

- create a GPG key-pair and upload the public key to a public server

Full details of how to do this can be found in Sonatype's [working-with-gpg-signatures](#) guide.

Pre-release Prereqs

Set the following environment variables:

```
export INCODE_REL=1.16.3 # ①
export INCODE_NEXT=1.16.4-SNAPSHOT # ②
export INCODE_KEYID=dan@haywood-associates.co.uk # ③
export INCODE_KEYPASS="this is not really my passphrase" # ④

env | grep ^INCODE
```

- ① the version to be released. Generally speaking this should correspond to the version of Apache Isis.
- ② for the next development version
- ③ key id used when creating the GPG key pair
- ④ corresponding pass phrase

Release Modules

Switch to the [modules](#) directory:

```
pushd modules
```

If necessary, update the `incode-parent` module (in `modules/pom.xml`), so that it references the correct version of Apache Isis.

```
<properties>
  <isis.version>1.16.3</isis.version>
  ...
</properties>
```

Commit these changes.

Then, release and tag using:

```
mvn clean deploy \
  -Ddeploy \
  -Ddeploy-modules \
  -Dskip.default-modules \
  -Drelease=$INCODE_REL \
  -Dskip.isis-swagger \
  -Dskip.isis-validate \
  -Dpgp.secretkey=keyring:id=$INCODE_KEYID \
  -Dpgp.passphrase="literal:$INCODE_KEYPASS"

git tag $INCODE_REL
```

If the script completes successfully, then push changes and the tag:

```
git push origin master && git push origin $INCODE_REL
popd
```

Recreating the archetype

The quickstart archetype is re-created for each release from the current quickstart application. The generated archetype is then released by deploying up to Maven Central.

If necessary, setup environment variables:

```
export INCODE_REL=1.16.3
export INCODE_NEXT=1.16.4-SNAPSHOT

env | grep ^INCODE
```

Then, switch to the quickstart *application*:

```
pushd archetype/app/quickstart
```

Now check the application source code:

- Confirm that the parent `pom.xml` of the quickstart application inherits from the release version of `org.incode:incode-parent`.

For example:

```
<parent>
  <groupId>org.incode</groupId>
  <artifactId>incode-parent</artifactId>
  <version>1.16.3</version>
  <relativePath/>
</parent>
```

- Also check that the parent `pom.xml` references the release (non-SNAPSHOT) versions of `isis.version`:

```
<properties>
  <isis.version>1.16.3</isis.version>
  ...
</properties>
```

Staying in the same directory, recreate using:

```
sh ../../arch/recreate-archetype.sh $INCODE_REL
```

Finally, commit any changes:

```
popd
git commit -am "recreates archetype for $INCODE_REL"
```

Releasing the archetype

We release in three steps:

- build the archetype locally (analogous to `mvn release:prepare`)
- check that an application can be built from the archetype
- deploy the archetype (using `mvn deploy`).

Prepare the archetype

The archetype is prepared using:

```
pushd ex/arch/quickstart
sh ../release-prepare.sh $INCODE_REL
popd
```

Testing the archetype

In a *different session*:

First, setup environment variables:

```
export INCODE_REL=1.16.3
export INCODE_TMP=/c/tmp    # or as required
export INCODE_ART=quickstart
env | grep INCODE | sort
```

then:

```
rm -rf $INCODE_TMP/test-$INCODEART

mkdir $INCODE_TMP/test-$INCODEART
cd $INCODE_TMP/test-$INCODEART
```

also, delete any test artifacts that might be in local cache:

```
rm -rf ~/.m2/repository/com/mycompany
```

Then, generate the app:

```
mvn archetype:generate \
  -D archetypeGroupId=org.incode.platform.archetype \
  -D archetypeArtifactId=quickstart-archetype \
  -D archetypeVersion=$INCODE_REL \
  -D groupId=com.mycompany \
  -D artifactId=myapp \
  -D version=1.0-SNAPSHOT \
  -D archetypeCatalog=local \
  -B
```

and build and run using:

```
cd myapp
mvn clean install

mvn -pl webapp jetty:run \
    -Disis.appManifest=domainapp.appdefn.DomainAppAppManifestWithFixtures
```

Login using sven/pass. The application generated should be the [Quickstart app](#).

Deploying the archetype

Back in the original session (in the `archetype/arch/quickstart` directory), the archetype is released (deployed to Maven Central) using:

```
pushd ex/arch/quickstart
sh ../release-deploy.sh \
    $INCODE_NEXT \
    $INCODE_KEYID \
    "$INCODE_KEYPASS"
```

This script should automatically commit changes. To finish up, just push:

```
popd
git push
```

Update the website

Update the website where required. In particular, update:

- running the archetype
 - home page
 - quickstart page
- change log

and republish (as described [below](#)).

Docs & website

The website resides in the `adocs` directory:

- `documentation/` is the source for website itself (Asciidoctor)
- `template/` is the HTML template
- `search/` holds node.js Javascript files to index the built site so that it is searchable

The website is published to the `incodehq/incodehq.github.io` github repository; a `CNAME` file (in the root directory) maps this to `https://platform.catalog.org`.

To publish, this repository must also be cloned to your local computer. The scripts assume that the `incode-platform` repository (ie this repo) and the `incodehq.github.io` repository cloned at the same level, eg:

```
└── incodehq
    ├── incode-platform
    └── incodehq.github.io
```

Prerequisites

Make sure that you've checked out the `incodehq/incodehq.github.io` repository alongside this one (see discussion above).

You'll also need to install:

- node (v7.10.0 or later) ... used to build the search index
- python 3 ... used to preview

The actual website generation uses AsciidoctorJ, which is called by Maven plugin. There are no other software prereqs.

Normally you'll want to work in the `adocs/documentation` directory:

```
pushd adocs/documentation
```

Previewing the website

To do a quick build the website and preview locally, use:

```
sh preview-html.sh
```

This builds the HTML and the search index, but omits building the PDFs. To enable you to preview the generated site, it starts a (python) webserver to browse.

To also build the PDFs, use:

```
sh preview-pdf.sh
```

Publishing the website

When you are ready to publish the website, use:

```
sh publish.sh
```

This will remove all files in the `incodehq.github.io` directory and replace with the latest build.

To check everything is ok:

```
pushd ../../../../incodehq.github.io  
sh preview-html.sh
```

(or use `preview.sh` to also generate the PDFs).

If all looks ok, then just push the changes:

```
git push
```