Committers Guide

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

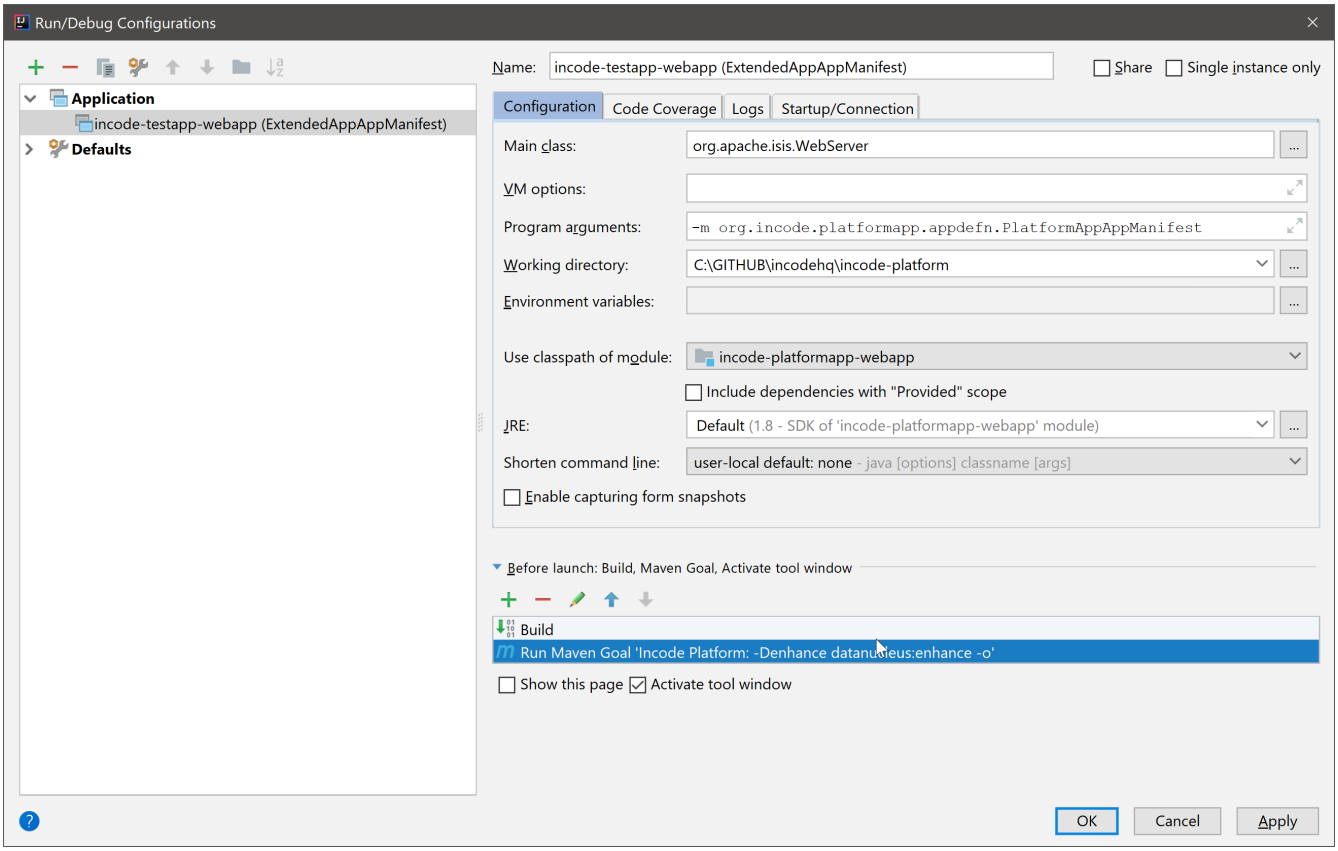
Build process

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-pgp-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                   \
    -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
```