Automation for Android

SPRINT3R

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Continuous Integration

Calaba.sh

Jenkins

Build step for Android

1. Build with Gradle
2. Create APK file (Artifact)
3. UI testing with Calabash
4. Generate report

Build step for Android

1. Build with Gradle
   - Unit test
   - Android Unit test
   - Espresso
2. Create APK file (Artifact)
3. UI testing with Calabash
4. Generate report

1. Build with Gradle

```
$ ./gradlew assembleDebug
$ ./gradlew assembleRelease
```

1. Build with Gradle

$ ./gradlew assembleRelease

```
signingConfigs {
    release {
        storeFile file("keystores/release.keystore")
        storePassword "your-keystore-password"
        keyAlias "your-alias"
        keyPassword "your-alias-password"
    }
}

buildTypes {
    release {
        signingConfig signingConfigs.release
    }
}
```

2. Create APK file

In app/build/outputs/apk

```
app/build/outputs/apk/
├── app-debug-unaligned.apk
└── app-debug.apk
```

3. Run calabash

Copy APK file to Calabash project

$calabash-android run <APK>

4. Generate report

$calabash-android run <APK>
--format json --out report.json --format pretty

We need build script

```
export ANDROID_HOME=<ANDROID SDK>
./gradlew assembleDebug
cd calabash
cp ../app/build/outputs/apk/<APK file> .
calabash-android resign <APK file>
calabash-android run <APK file>  --format json --out report.json
```

Start with Jenkins

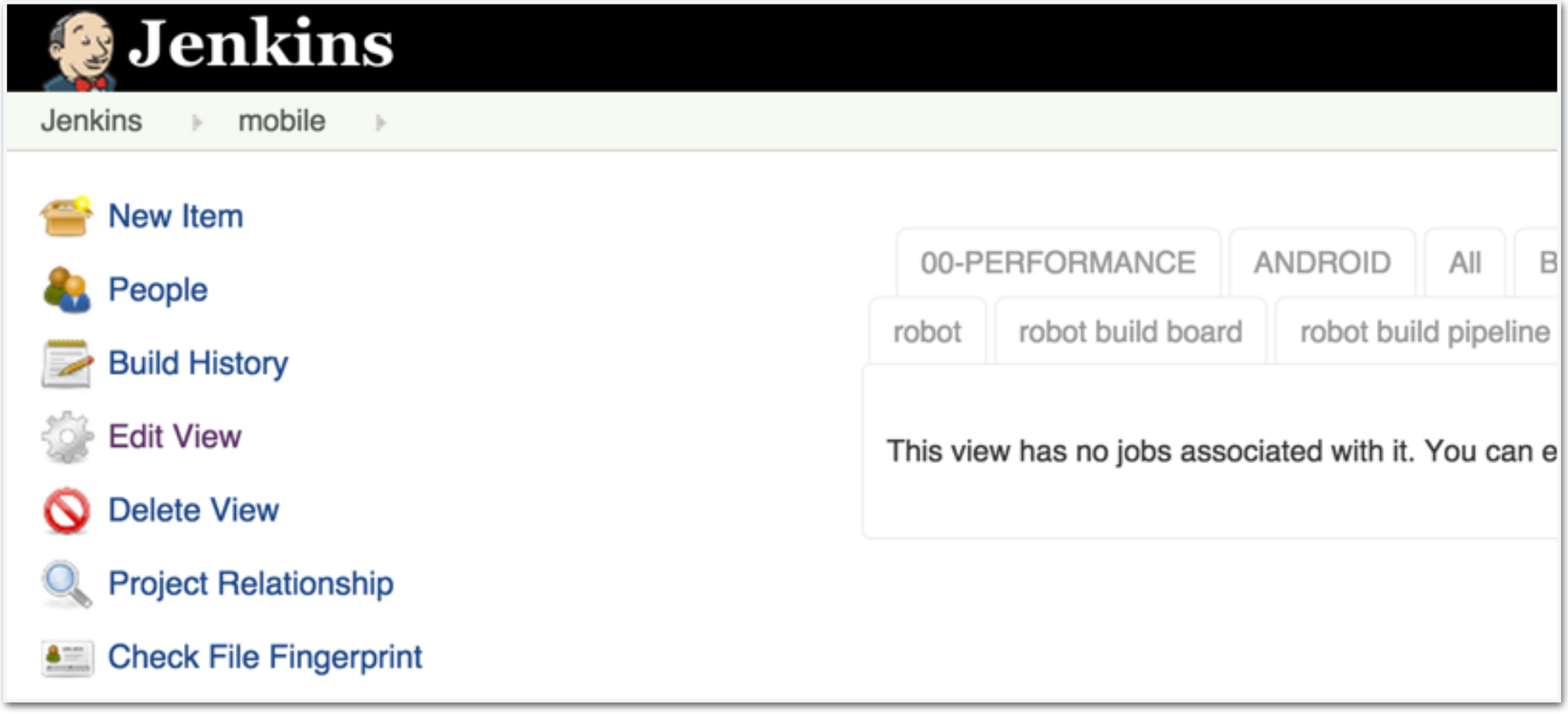
Start Jenkins server

$java -jar jenkins.war

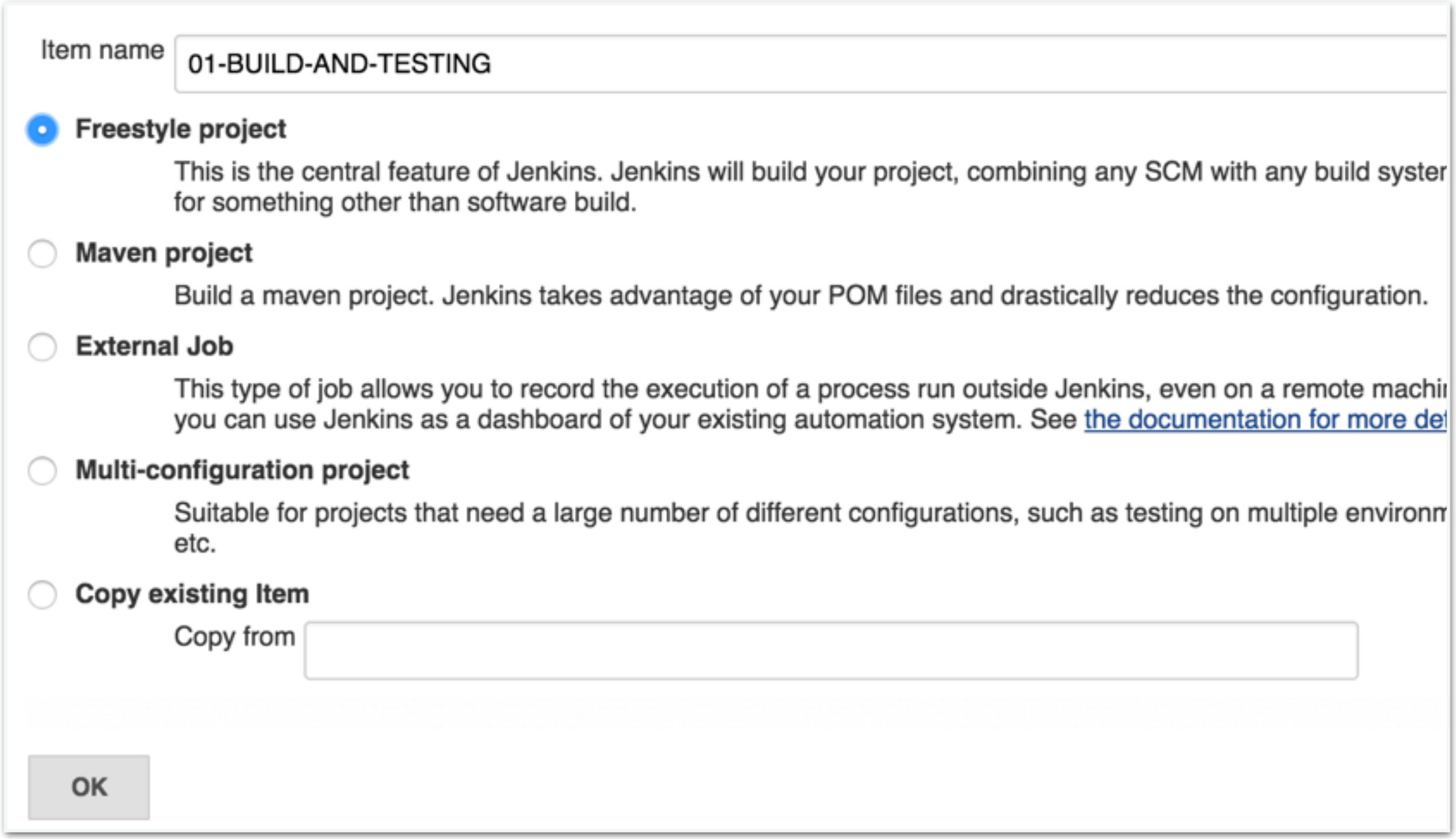
INFO: Jenkins is fully up and running

Start Jenkins server

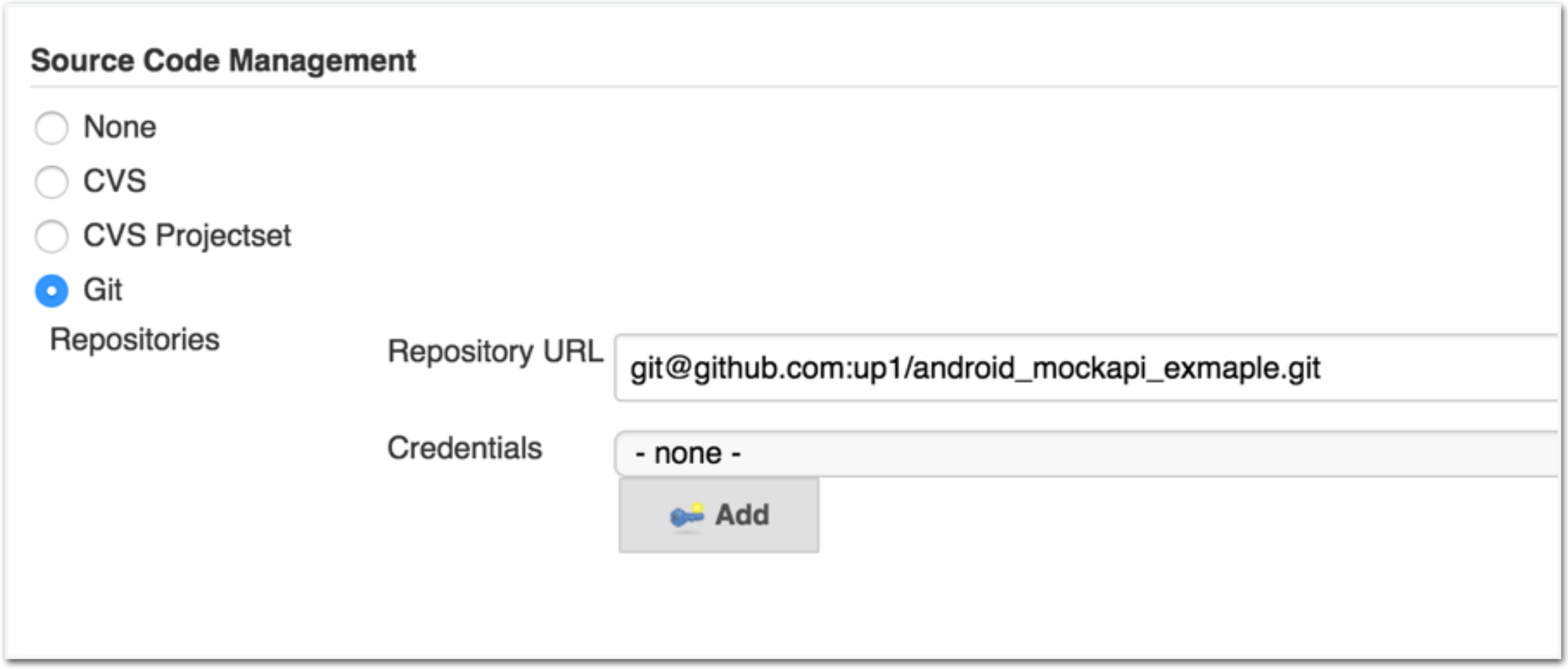
http://localhost:8080



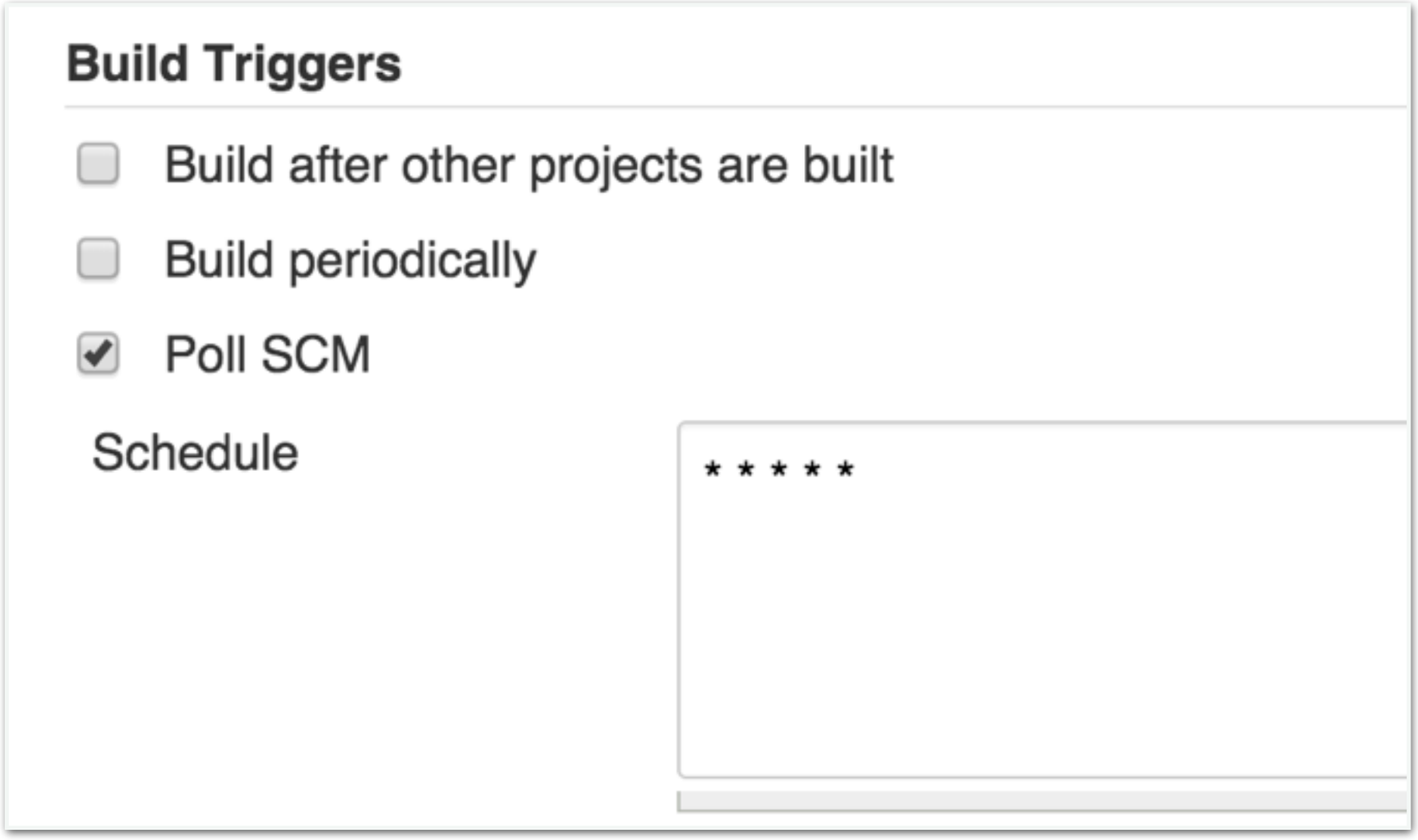
New job


Item name
01-BUILD-AND-TESTING
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build syster
for something other than software build.
Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
External Job
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machi
you can use Jenkins as a dashboard of your existing automation system. See the documentation for more de
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environm
etc.
Copy existing Item
Copy from
OK

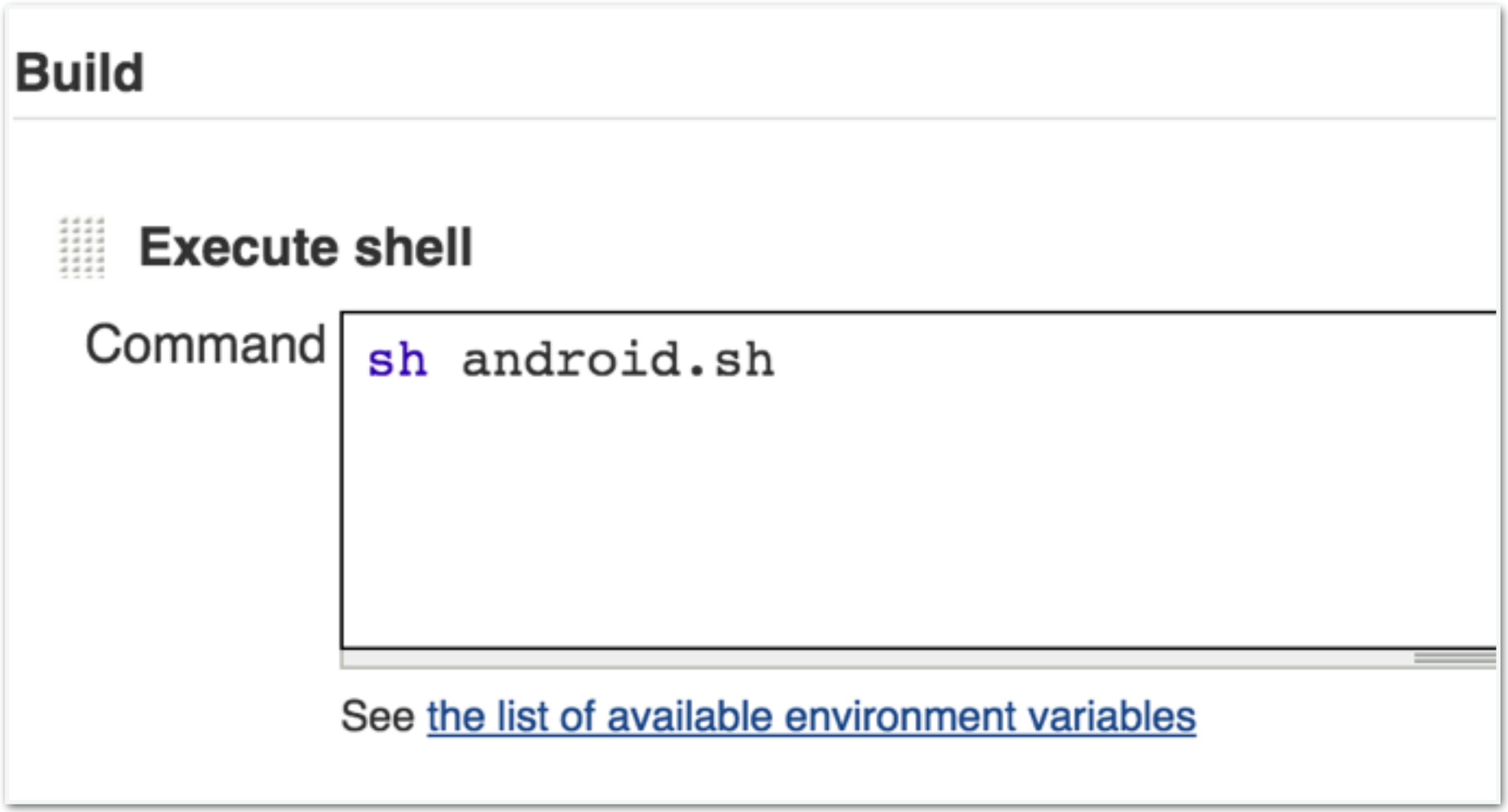
Source code management



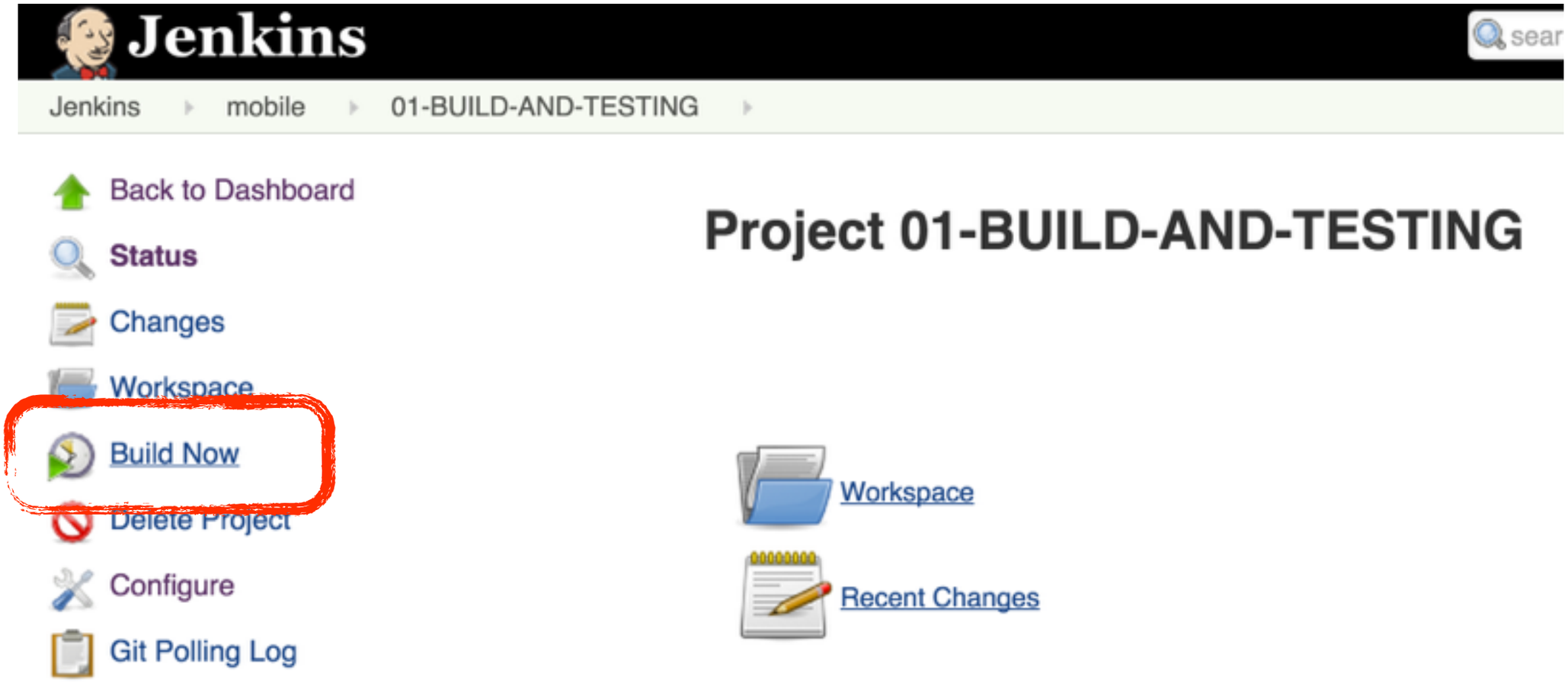
Auto build in every minute



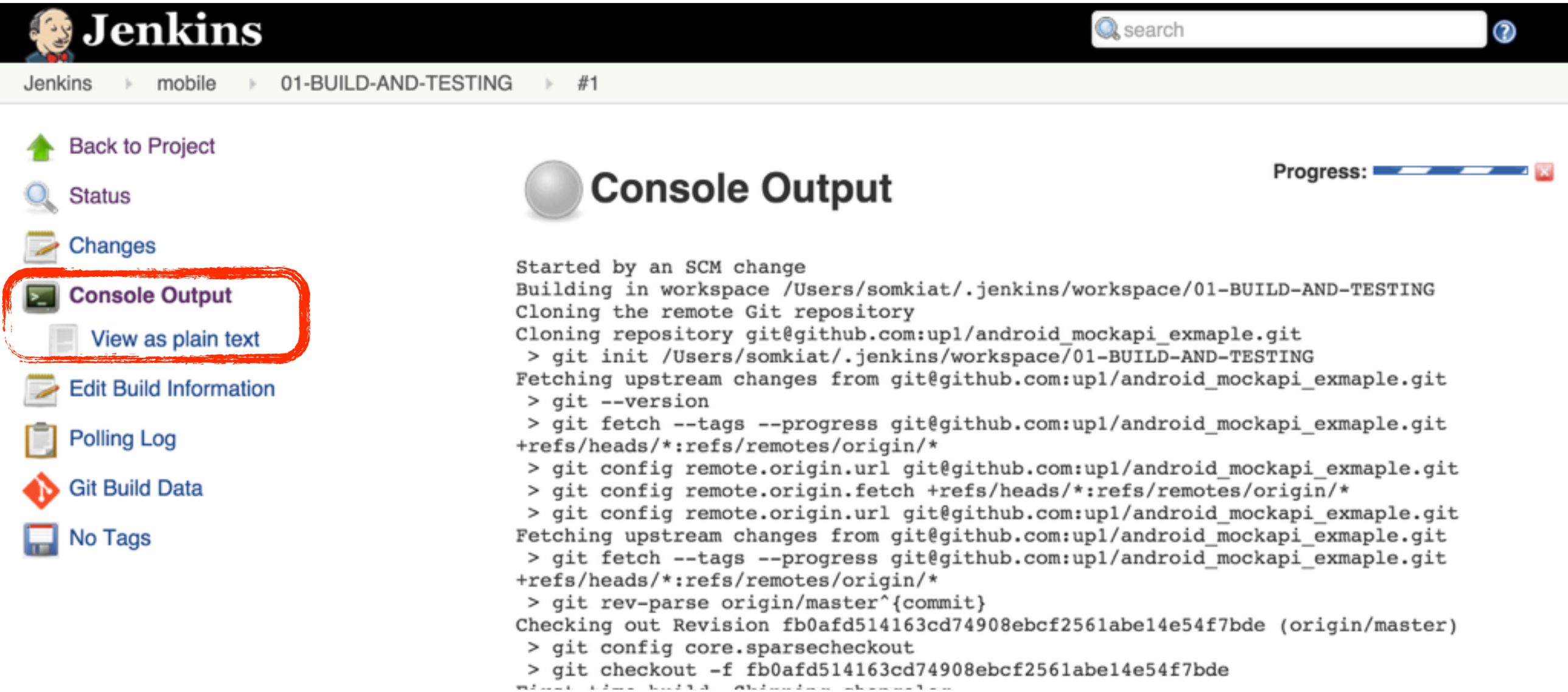
Add build process



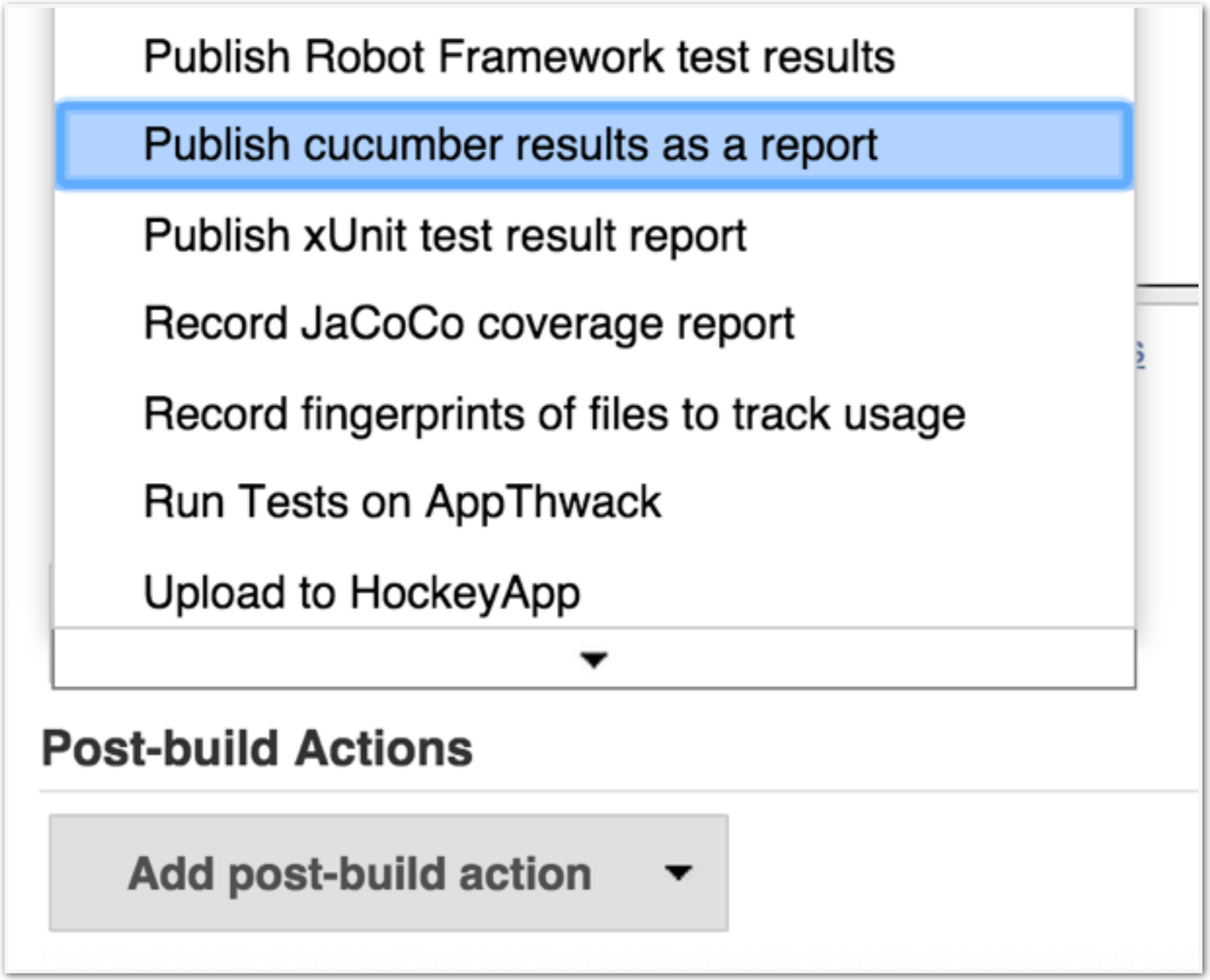
Manual build



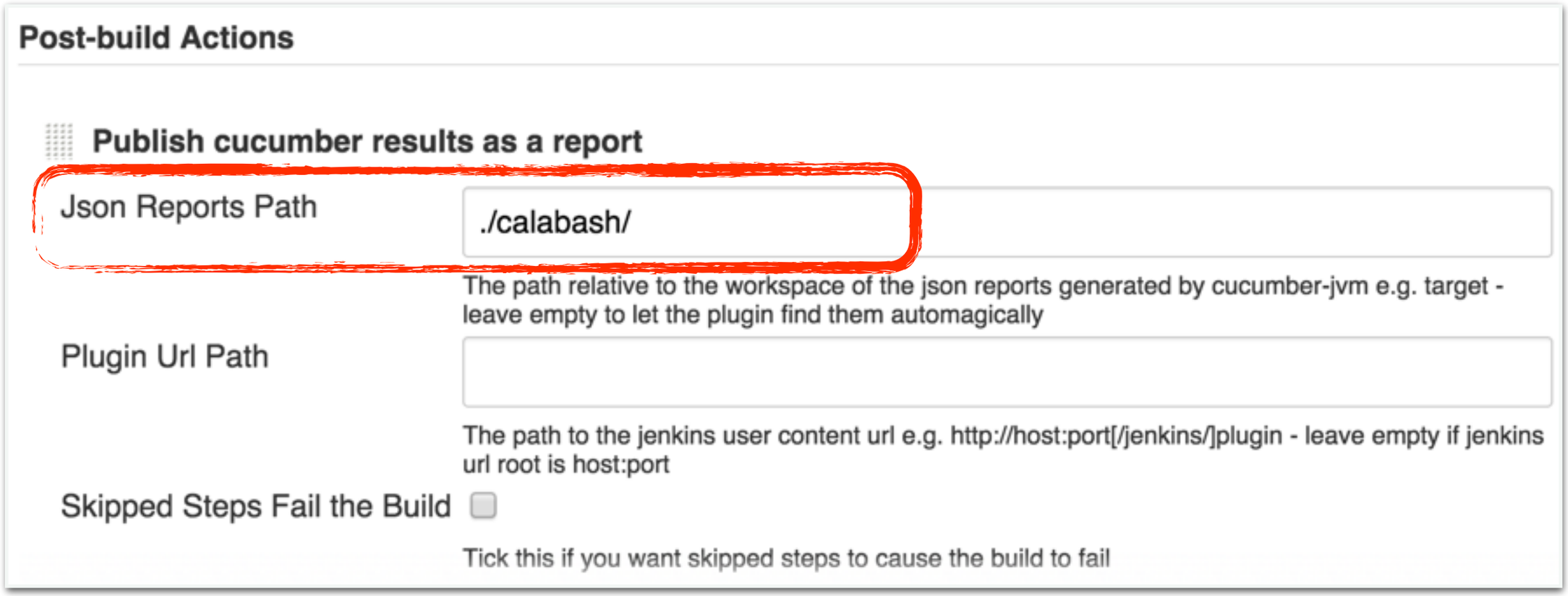
See result


Jenkins
search
Jenkins ▸ mobile ▸ 01-BUILD-AND-TESTING ▸ #1
Back to Project
Status
Changes
Console Output
View as plain text
Edit Build Information
Polling Log
Git Build Data
No Tags
Console Output
Progress:
Started by an SCM change
Building in workspace /Users/somkiat/.jenkins/workspace/01-BUILD-AND-TESTING
Cloning the remote Git repository
Cloning repository git@github.com:up1/android_mockapi_exmaple.git
> git init /Users/somkiat/.jenkins/workspace/01-BUILD-AND-TESTING
Fetching upstream changes from git@github.com:up1/android_mockapi_exmaple.git
> git --version
> git fetch --tags --progress git@github.com:up1/android_mockapi_exmaple.git
+refs/heads/*:refs/remotes/origin/*
> git config remote.origin.url git@github.com:up1/android_mockapi_exmaple.git
> git config remote.origin.fetch +refs/heads/*:refs/remotes/origin/*
> git config remote.origin.url git@github.com:up1/android_mockapi_exmaple.git
Fetching upstream changes from git@github.com:up1/android_mockapi_exmaple.git
> git fetch --tags --progress git@github.com:up1/android_mockapi_exmaple.git
+refs/heads/*:refs/remotes/origin/*
> git rev-parse origin/master^{commit}
Checking out Revision fb0afd514163cd74908ebcf2561abe14e54f7bde (origin/master)
> git config core.sparsecheckout
> git checkout -f fb0afd514163cd74908ebcf2561abe14e54f7bde

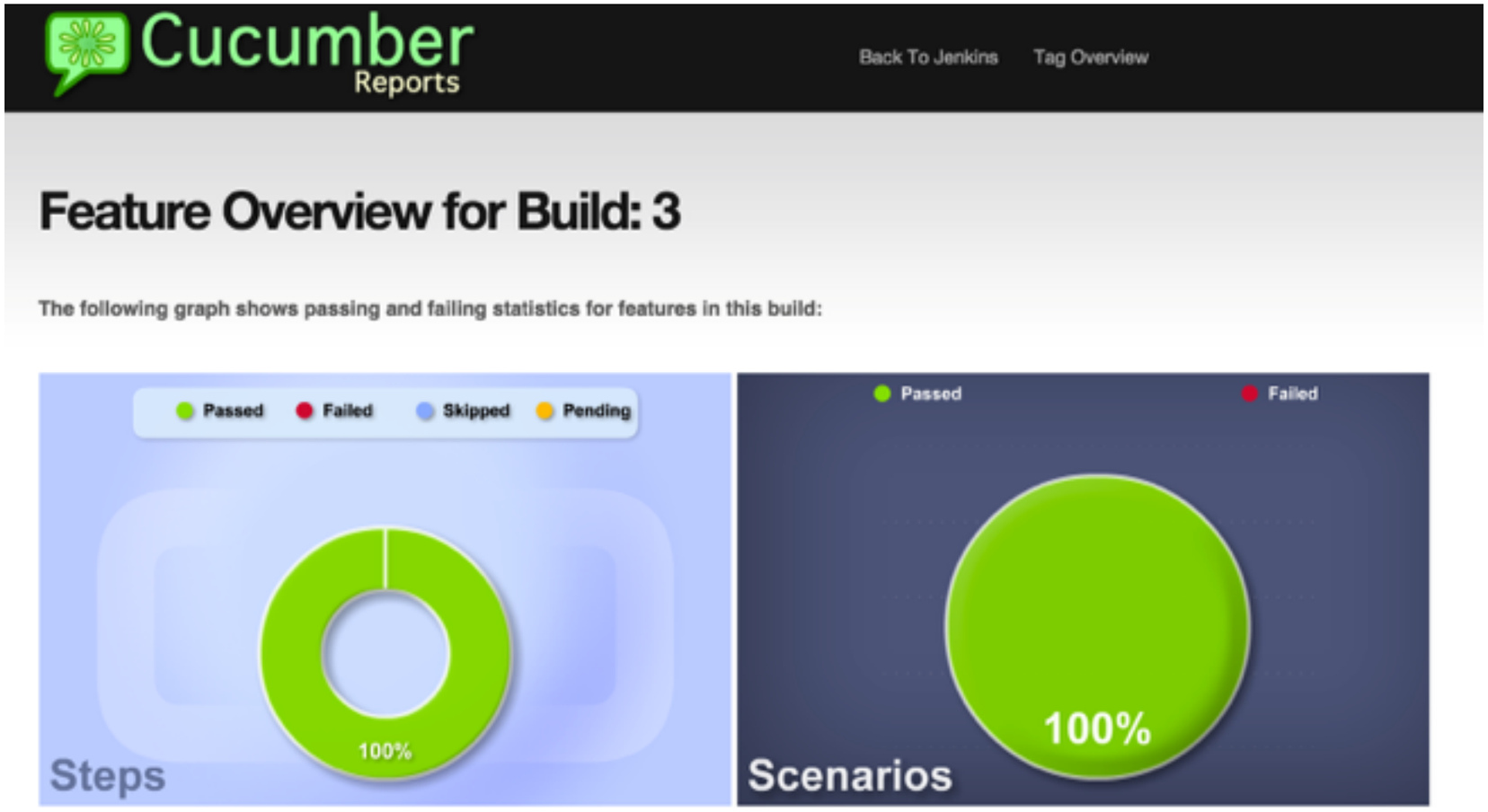
Publish test report



Publish test report



Cucumber report



Feature Statistics

	Scenarios			Steps						
Feature	Total	Passed	Failed	Total	Passed	Failed	Skipped	Pending	Duration	Status
First feature	1	1	0	1	1	0	0	0	84 ms	passed
1	1	1	0	1	1	0	0	0	84 ms	Totals

Cucumber report detail

Cucumber Reports

Back To Jenkins | Tag Overview | Feature Overview

Feature Result for Build: 3

	Scenarios			Steps						
Feature	Total	Passed	Failed	Total	Passed	Failed	Skipped	Pending	Duration	Status
First feature	1	1	0	1	1	0	0	0	84 ms	passed

Feature: First feature

Scenario: Welcome to main page
Then I see "Angular" 84 ms