



Migrating Plugins to Grails 3

Giving Back to Grails Community

- by Migrating Plugins to Grails 3

About Me



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TO THE NEW Digital

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Agenda

- Background
- Important things
- Let's migrate
- Publishing it
- Few useful tips

How it all started?

- Few folks attended GR8Conf last year
- Grails 3 launched
- git clone Grails :-)
- Could not migrate :(- because old plugins not supported
- Someone need to migrate == opportunity
- Migration == read documentation :-)

What so far??

- Migrated around 8+ plugins to Grails 3, including Jodatime, RabbitMQ, Elasticsearch, Grails Asynchronous Mail, Export, Grails Remote Control, CKEditor etc.
- Organized a whole day workshop, where we migrated around 6-7 plugins in a day
- Leading a team of enthusiasts involved in migrating 21+ plugins to Grails 3

Things to consider

- Removal of before & after interceptors
- Project structure
- File locations
- Configurations
- Package name
- Legacy Gant Scripts
- Gradle Build Systems

File Location Differences

Grails 2	Grails 3
grails-app/conf/BuildConfig.groovy	build.gradle
grails-app/conf/Config.groovy	grails-app/config/application.groovy
grails/conf/UrlMappings.groovy	grails-app/controllers/UrlMappings.groovy
grails-app/conf/BootStrap.groovy	grails-app/init/BootStrap.groovy
scripts	src/main/scripts
src/groovy	src/main/groovy
src/java	src/main/java

File Location Differences

Grails 2	Grails 3
test/unit	src/test/groovy
test/integration	src/integration-test/groovy
web-app	src/main/webapp or src/main/resources/
*GrailsPlugin.groovy	src/main/groovy/

New Files in Grails 3

File	Description
build.gradle	The Gradle build descriptor location in the root of project. Replaces the <i>BuildConfig.groovy</i>
gradle.properties	Properties file defining the Grails and Gradle versions
grails-app/conf/logback.groovy	Logging previously defined in Config.groovy is now defined using Logback, replacing log4j
grails-app/conf/application.(yml, groovy)	Configuration can now also be defined using YAML or Groovy
grails-app/init/<package>/Application.groovy	The class used By Spring Boot to start the application

Files **Not** Present in Grails 3

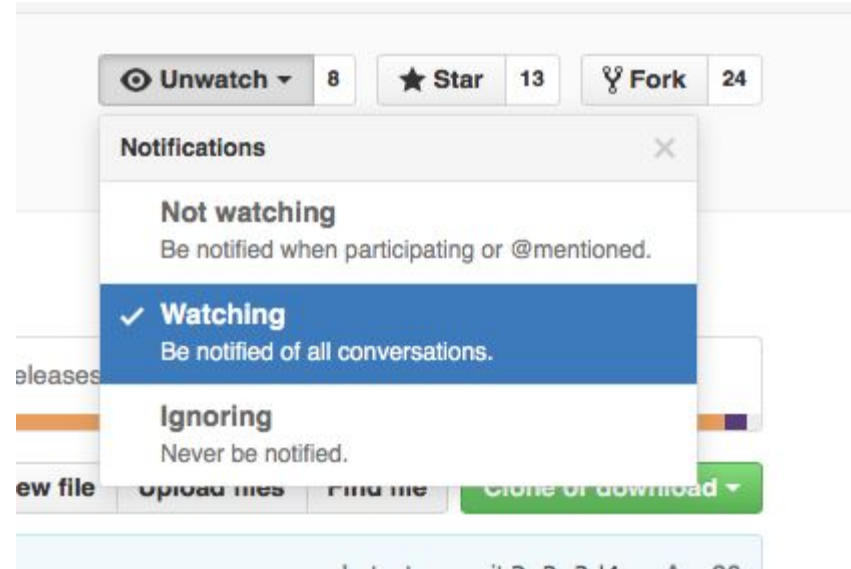
File	Description
application.properties	The application name and version is now defined in build.gradle
grails-app/conf/DataSource.groovy	Merged together into application.yml or application.groovy
lib/	Dependency resolution should be used to resolve JAR files
web-app/WEB-INF/applicationContext.xml	Removed, beans can be defined in grails-app/conf/spring/resources.groovy

Files **Not** Present in Grails 3

File	Description
src/templates/war/web.xml	Grails 3.0 no longer requires web.xml. Customizations can be done via Spring
web-app/WEB-INF/sitemesh.xml	Removed, sitemesh filter no longer present.
web-app/WEB-INF/tld	Removed, can be restored in src/main/webapp or src/main/resources/WEB-INF

Few things, I prefer to do before migration

- Fork the existing repository
- **Star it** - Bookmark it so it's easy to find
- **Watching** - be notified of all the conversations
- Create an issue in existing plugin, "Migrate to Grails 3" and mention that you are working on it



Create a new branch for previous version on forked repo

- Note the previous version of plugin from the plugin descriptor file
- Create a new branch for migration. Run the following commands if you've already forked and cloned the repo on your dev machine

```
git pull origin master  
git checkout -b 1.0.x  
git push origin 1.0.x  
git checkout master
```

How can I create inline plugin in Grails 3?

Inline Plugin...

- In Grails 2.x it was possible to specify inline plugins in BuildConfig

Inline Plugin...

- In Grails 2.x it was possible to specify inline plugins in BuildConfig
- In Grails 3.x inline plugin functionality has been replaced by Gradle's multi-project build feature.

Inline Plugin - In 4 simple steps

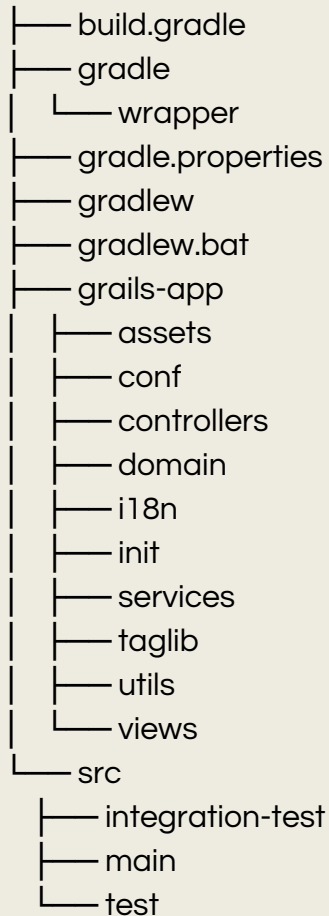
- `grails create-app myApp`
- `grails create-plugin myPlugin`
- `vim settings.gradle & type include myPlugin`
- Goto `build.gradle` in `myApp` and add a dependency
`compile project(:myPlugin)`

Let's get started

- Create a new plugin in Grails 3 with the same name
`"grails create-plugin asynchronous-mail"`

Copy New Files from Grails 3 Backbone project to Forked version...

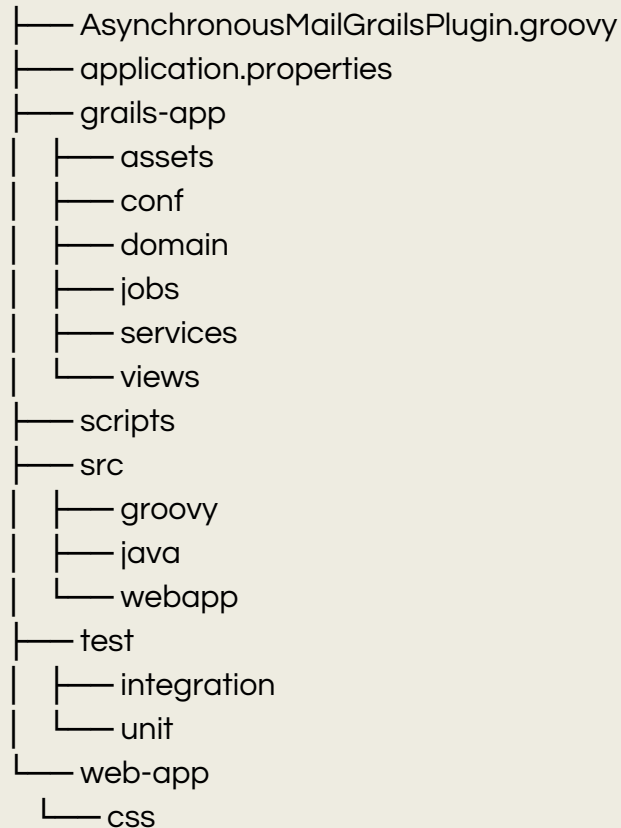
Barebone Grails 3 Plugin



```
graph LR; build.gradle --- gradle; gradle --- wrapper; gradle --- gradle.properties; gradle --- gradlew; gradle --- gradlew.bat; gradle --- grails-app; grails-app --- assets; grails-app --- conf; grails-app --- controllers; grails-app --- domain; grails-app --- i18n; grails-app --- init; grails-app --- services; grails-app --- taglib; grails-app --- utils; grails-app --- views; grails-app --- src; src --- integration-test; src --- main; src --- test
```

build.gradle
gradle
├── wrapper
gradle.properties
gradlew
gradlew.bat
grails-app
├── assets
├── conf
├── controllers
├── domain
├── i18n
├── init
├── services
├── taglib
├── utils
├── views
└── src
 ├── integration-test
 ├── main
 └── test

Forked Project



```
graph LR; AsynchronousMailGrailsPlugin.groovy --- application.properties; application.properties --- grails-app; grails-app --- assets; grails-app --- conf; grails-app --- domain; grails-app --- jobs; grails-app --- services; grails-app --- views; grails-app --- scripts; grails-app --- src; src --- groovy; src --- java; src --- webapp; grails-app --- test; test --- integration; test --- unit; grails-app --- web-app; web-app --- css
```

AsynchronousMailGrailsPlugin.groovy
application.properties
grails-app
├── assets
├── conf
├── domain
├── jobs
├── services
├── views
├── scripts
├── src
│ ├── groovy
│ ├── java
│ └── webapp
├── test
│ ├── integration
│ └── unit
└── web-app
 └── css

Barebone Grails 3 Plugin

- build.gradle
- gradle
 - wrapper
- gradle.properties
- gradlew
- gradlew.bat
- grails-app
 - src
 - integration-test
 - main
 - test

Copy
Files

Forked Project

- AsynchronousMailGrailsPlugin.groovy
- build.gradle
- gradle
 - wrapper
- gradle.properties
- gradlew
- gradlew.bat
- application.properties
- build
- grails-app
- scripts
- src
 - groovy
 - java
 - templates
- test
 - integration
 - unit
- web-app

Barebone Grails 3 Plugin

- build.gradle
- gradle
- gradle.properties
- gradlew
- gradlew.bat
- grails-app
 - assets
 - conf
 - controllers
 - domain
 - i18n
 - **init**
 - services
 - taglib
 - utils
 - views
- src

Copy
Files

Forked Project

- AsynchronousMailGrailsPlugin.groovy
- application.properties
- build.gradle
- gradle
- gradle.properties
- gradlew
- gradlew.bat
- grails-app
 - assets
 - conf
 - domain
 - **init**
 - jobs
 - services
 - views
- scripts
- src
- test
- web-app

Barebone Grails 3 Plugin

- build.gradle
- gradle
- gradle.properties
- gradlew
- gradlew.bat
- grails-app
 - assets
 - conf
 - controllers
 - domain
 - i18n
 - init
 - services
 - taglib
 - utils
 - views
- src

- integration-test
- main
- test

Copy
Files

Forked Project

- AsynchronousMailGrailsPlugin.groovy
- application.properties
- build.gradle
- gradle
- gradle.properties
- gradlew
- gradlew.bat
- grails-app
 - grails-asynchronous-mail.iml
- scripts
- src
 - docs
 - groovy
 - java
 - integration-test
 - main
 - test
- templates
- test
- web-app

Barebone Grails 3 Plugin - grails-app

grails-app/

├── assets

├── conf

├── application.yml

├── logback.groovy

├── controllers

├── asynchronous

├── mail

├── UrlMappings.groovy

├── domain

├── i18n

├── init

├── asynchronous

├── mail

├── Application.groovy

├── services

├── taglib

├── utils

├── views

Copy
Files

Forked Project - grails-app

grails-app

├── assets

├── conf

├── BuildConfig.groovy

├── DataSource.groovy

├── DefaultAsynchronousMailConfig.groovy

├── application.yml

├── logback.groovy

├── domain

├── init

├── asynchronous

├── mail

├── Application.groovy

├── jobs

├── services

├── views

Barebone Grails 3 Plugin

```
grails-app/  
├── assets  
├── conf  
│   ├── application.yml  
│   └── logback.groovy  
├── controllers  
│   └── asynchronous  
│       ├── mail  
│       └── UrlMappings.groovy  
├── domain  
├── i18n  
├── init  
│   ├── asynchronous  
│   │   ├── mail  
│   │   └── Application.groovy  
├── services  
├── taglib  
├── utils  
└── views
```

Forked Project

```
grails-app  
├── assets  
├── conf  
│   ├── application.yml  
│   ├── logback.groovy  
│   ├── BuildConfig.groovy  
│   ├── DataSource.groovy  
│   └── DefaultAsynchronousMailConfig.groovy  
├── domain  
├── init  
│   ├── asynchronous  
│   │   ├── mail  
│   │   └── Application.groovy  
├── jobs  
├── services  
└── views
```

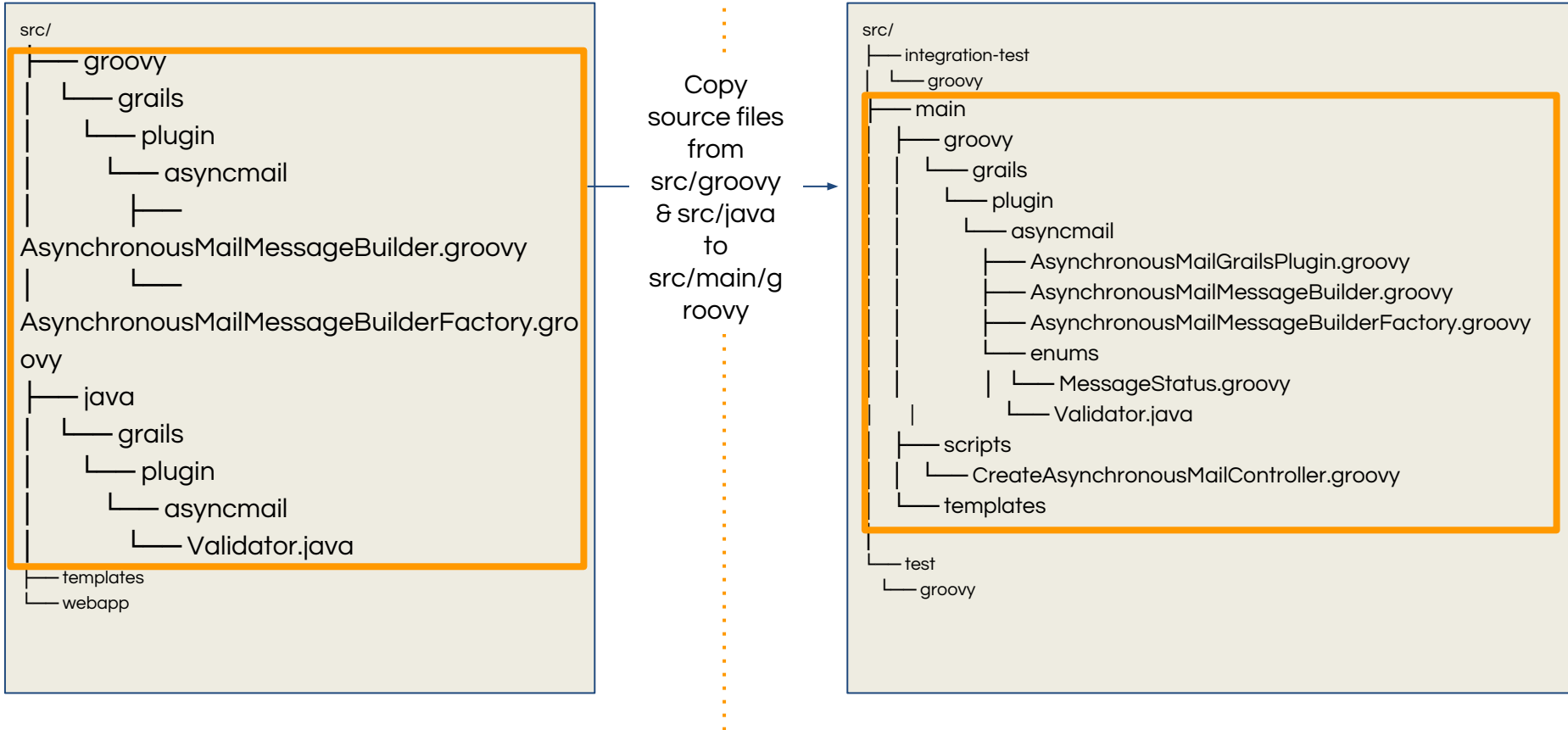
Copy
Files

- AsynchronousMailGrailsPlugin.groovy
- application.properties
- build.gradle
- gradle
- gradle.properties
- gradlew
- gradlew.bat
- grails-app
- grails-asynchronous-mail.iml
- scripts
- src
 - groovy
 - java
 - integration-test
 - main
 - test
 - templates
- test
 - integration
 - unit
- web-app
 - css

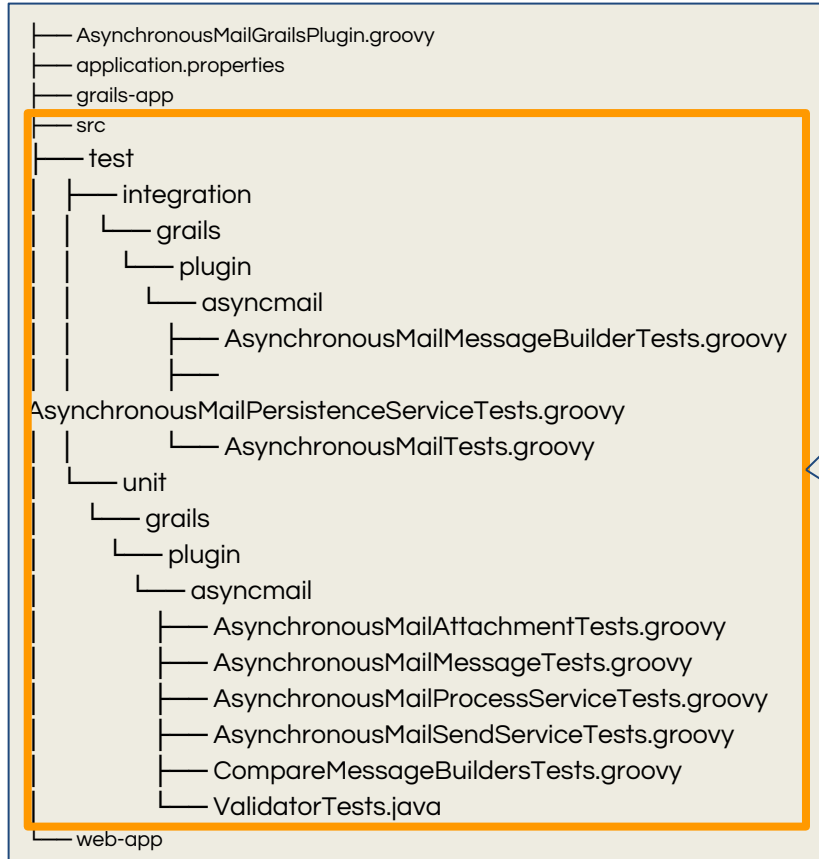
Forked Project

Now, move sources to new locations...

Now, move files from src to src/main



Move Unit & Integration Tests



Copy
test case
from test
folder to
src/test/
groovy &
src/integ
ration-te
st/groov
y



Move Configurations...

Move Configurations

grails-app/conf/BuildConfig.groovy

```
grails.project.work.dir = 'target'
grails.project.source.level = 1.6
grails.project.dependency.resolver = "maven" // or ivy
```

```
grails.project.dependency.resolution = {
    inherits 'global'
    log 'warn'
    repositories {
        grailsCentral()
        grailsPlugins()
        grailsHome()

        mavenLocal()
        mavenCentral()
        // uncomment these (or add new ones) to enable remote dependency
        // resolution from public Maven repositories
        mavenRepo 'http://snapshots.repository.codehaus.org'
        mavenRepo 'http://repository.codehaus.org'
        mavenRepo 'http://download.java.net/maven/2/'
        mavenRepo 'http://repository.jboss.com/maven2/'
    }
}
```

```
dependencies {
    compile "org.codehaus.gpars:gpars:1.2.1"
}
```

...

build.gradle

```
buildscript {
    ext {
        grailsVersion = project.grailsVersion
    }
    repositories {
        mavenLocal()
        maven { url "https://repo.grails.org/grails/core" }
    }
    dependencies {
        classpath "org.grails:grails-gradle-plugin:$grailsVersion"
    }
}
```

```
version "2.0.0.RC2"
group "org.grails.plugins"
```

```
apply plugin: 'idea'
apply plugin: "org.grails:grails-plugin"
apply plugin: "org.grails:grails-plugin-publish"
apply plugin: "org.grails:grails-gsp"
```

```
ext {
    grailsVersion = project.grailsVersion
    gradleWrapperVersion = project.gradleWrapperVersion
}
```

```
repositories {
    mavenLocal()
    maven { url "https://repo.grails.org/grails/core" }
}
```

```
dependencyManagement {
    imports {
        mavenBom "org.grails:grails-bom:$grailsVersion"
    }
    applyMavenExclusions false
}
```

...

Update plugin
version and
group

Copy you
maven
repositories
here

Move Configurations...

grails-app/conf/BuildConfig.groovy

```
grails.project.work.dir = 'target'
grails.project.source.level = 1.6
grails.project.dependency.resolver = "maven" // or ivy

grails.project.dependency.resolution = {
  inherits 'global'
  log 'warn'
  repositories {
    grailsCentral()
    grailsPlugins()
    grailsHome()

    mavenLocal()
    mavenCentral()
    // uncomment these (or add new ones) to enable remote dependency resolution from public Maven
    repositories
    mavenRepo 'http://snapshots.repository.codehaus.org'
    mavenRepo 'http://repository.codehaus.org'
    mavenRepo 'http://download.java.net/maven/2/'
    mavenRepo 'http://repository.jboss.com/maven2/'
  }

  dependencies {
    compile "org.codehaus.gpars:gpars:1.2.1"
  }

  plugins {
    test("hibernate:3.6.10.16") {
      export = false
    }
  }

  compile("mail:1.0.7"){
    excludes 'spring-test'
  }
  compile 'quartz:1.0.2'

  build("release:3.0.1", 'rest-client-builder:2.0.3') {
    export = false
  }
}
```

Copy plugins
under
dependencies

build.gradle

```
...
dependencyManagement {
  imports {
    mavenBom "org.grails:grails-bom:$grailsVersion"
  }
  applyMavenExclusions false
}

dependencies {
  compile "org.springframework.boot:spring-boot-starter-logging"
  compile "org.springframework.boot:spring-boot-autoconfigure"
  compile "org.grails:grails-core"
  compile "org.springframework.boot:spring-boot-starter-actuator"
  compile "org.springframework.boot:spring-boot-starter-tomcat"
  compile "org.grails:grails-dependencies"
  compile "org.grails:grails-web-boot"
  compile "org.grails.plugins:cache"
  compile "org.grails.plugins:scaffolding"
  console "org.grails:grails-console"
  profile "org.grails.profiles:web-plugin:$grailsVersion"
  provided "org.grails:grails-plugin-services"
  provided "org.grails:grails-plugin-domain-class"
  testCompile "org.grails:grails-plugin-testing"

  testCompile "org.grails.plugins:hibernate4"

  compile "org.grails.plugins:mail:2.0.0.RC6"
  compile "org.grails.plugins:quartz:2.0.8"

  task wrapper(type: Wrapper) {
    gradleVersion = gradleWrapperVersion
  }

  ...
}
```

Move Configurations...

grails-app/conf/BuildConfig.groovy

```
grails.project.work.dir = 'target'
grails.project.source.level = 1.6
grails.project.dependency.resolver = "maven" // or ivy

grails.project.dependency.resolution = {
  inherits 'global'
  log 'warn'
  repositories {
    grailsCentral()
    grailsPlugins()
    grailsHome()

    mavenLocal()
    mavenCentral()
    // uncomment these (or add new ones) to enable remote dependency resolution from public Maven
    repositories
    mavenRepo 'http://snapshots.repository.codehaus.org'
    mavenRepo 'http://repository.codehaus.org'
    mavenRepo 'http://download.java.net/maven/2/'
    mavenRepo 'http://repository.jboss.com/maven2/'
  }

  dependencies {
    compile "org.codehaus.gpars:gpars:1.2.1"
  }

  plugins {
    test("hibernate:3.6.10.16") {
      export = false
    }

    compile("mail:1.0.7"){
      excludes 'spring-test'
    }
    compile 'quartz:1.0.2'

    build("release:3.0.1", 'rest-client-builder:2.0.3') {
      export = false
    }
  }
}
```

build.gradle

```
...
task wrapper(type: Wrapper) {
  gradleVersion = gradleWrapperVersion
}

grailsPublish {
  userOrg = 'kefirfirst'
  license {
    name = 'Apache-2.0'
  }
  websiteUrl = 'https://grails.org/plugin/asynchronous-mail'
  issueTrackerUrl = 'https://github.com/kefirfromperm/grails-asynchronous-mail/issues'
  vcsUrl = 'https://github.com/kefirfromperm/grails-asynchronous-mail.git'
  title = "Grails Asynchronous Mail plugin"
  desc = "The plugin realises asynchronous mail sending. It stores messages in a DB and sends them asynchronously by a quartz job."
  developers = [
    kefirfromperm:"Vitalii Samolovskikh",
    stokito:"Sergey Ponomarev",
    ilopmar:"Iván López",
    burtbeckwith:"Burt Beckwith",
    puneetbeh:"Puneet Behl",
    aberbenni:"Alessandro Berbenni",
    dpcasady:"Danny Casady",
    SAgrawal14:"Shashank Agrawal",
    visheshd:"Vishesh",
    'micke-a':"Mikael Andersson"
  ]
}
```

Plugin-publish related configurations

Move Configurations...

grails-app/conf/DefaultAsyncMailConfig.groovy

```
asynchronous.mail.default.attempt.interval=300000 // Five minutes
asynchronous.mail.default.max.attempts.count=1
asynchronous.mail.send.repeat.interval=60000 // One minute
asynchronous.mail.expired.collector.repeat.interval=607000
asynchronous.mail.messages.at.once=100
asynchronous.mail.send.immediately=true
asynchronous.mail.override=false
asynchronous.mail.clear.after.sent=false
asynchronous.mail.disable=false
asynchronous.mail.useFlushOnSave=true
asynchronous.mail.persistence.provider='hibernate' // Possible values are 'hibernate', 'hibernate4',
'mongodb'
asynchronous.mail.gparsPoolSize=1
asynchronous.mail.newSessionOnImmediateSend=false
```

application.groovy

```
grails {
  profile = 'web-plugin'
  codegen {
    defaultPackage = 'grails.plugin.asyncmail'
  }
}
info {
  app {
    name = '@info.app.name@'
    version = '@info.app.version@'
    grailsVersion = '@info.app.grailsVersion@'
  }
}
spring {
  groovy {
    template.'check-template-location' = false
  }
}
```

```
asynchronous.mail.default.attempt.interval=300000 // Five minutes
asynchronous.mail.default.max.attempts.count=1
asynchronous.mail.send.repeat.interval=60000 // One minute
asynchronous.mail.expired.collector.repeat.interval=607000
asynchronous.mail.messages.at.once=100
asynchronous.mail.send.immediately=true
asynchronous.mail.clear.after.sent=false
asynchronous.mail.disable=false
asynchronous.mail.useFlushOnSave=true
asynchronous.mail.persistence.provider='hibernate4' // Possible values are 'hibernate',
'hibernate4', 'mongodb'
asynchronous.mail.newSessionOnImmediateSend=false
```

Move Configurations...

grails-app/conf/DataSource.groovy

```
// environment specific settings
environments {
  test {
    dataSource {
      pooled = true
      driverClassName = "org.h2.Driver"
      username = "sa"
      password = ""
      dbCreate = "create-drop"
      url = "jdbc:h2:mem:testDb;MVCC=TRUE;LOCK_TIMEOUT=10000"
    }
    hibernate {
      cache.use_second_level_cache = false
      cache.use_query_cache = false
    }
  }
}
```

application.groovy

```
...
asynchronous.mail.default.attempt.interval=300000 // Five minutes
asynchronous.mail.default.max.attempts.count=1
asynchronous.mail.send.repeat.interval=60000 // One minute
asynchronous.mail.expired.collector.repeat.interval=607000
asynchronous.mail.messages.at.once=100
asynchronous.mail.send.immediately=true
asynchronous.mail.clear.after.sent=false
asynchronous.mail.disable=false
asynchronous.mail.useFlushOnSave=true
asynchronous.mail.persistence.provider='hibernate4' // Possible values are 'hibernate', 'hibernate4', 'mongodb'
asynchronous.mail.newSessionOnImmediateSend=false

environments {
  test {
    dataSource {
      pooled = true
      jmxExport = true
      driverClassName = 'org.h2.Driver'
      username = 'sa'
      password = ""
      dbCreate = 'update'
      url =
        'jdbc:h2:mem:testDb;MVCC=TRUE;LOCK_TIMEOUT=10000;DB_CLOSE_ON_EXIT=FALSE'
    }
    quartz.jdbcStore = false
  }
}
```

Change Plugin Descriptor file

- Extend the descriptor with **grails.plugins.Plugin**
- Refer Plugin descriptor file from new plugin to copy and update all the required methods.
- In addition you should remove the “**version**” property from the descriptor as this is now defined in “**build.gradle**”.

Modify Package Import

- In Grails 3.x all internal APIs can be found in the **org.grails** package.

Modify Package Import

- In Grails 3.x all internal APIs can be found in the **org.grails** package.
- All public facing APIs in the grails package.

Modify Package Import

- In Grails 3.x all internal APIs can be found in the **org.grails** package.
- All public facing APIs in the grails package.
 - The “*org.codehaus.groovy.grails*” package no longer exists.

Modify Package Import

- In Grails 3.x all internal APIs can be found in the **org.grails** package.
- All public facing APIs in the grails package.
 - The “`org.codehaus.groovy.grails`” package no longer exists.
 - All package declaration in sources should be modified for new locations of respective classes. For example
“`org.codehaus.groovy.grails.commons.GrailsApplication`”
is now “`grails.core.GrailsApplication`”

- Delete the files which are no longer used, such as -
 - BuildConfig.groovy
 - Config.groovy
 - DataSource.groovy
 - Old Plugin Descriptor in root etc.

Update Unit Test Cases

```
import grails.test.mixin.TestFor

/**
 * Attachment unit tests
 */
@TestFor(AsynchronousMailAttachment)
class AsynchronousMailAttachmentTests {
    void testDefault(){
        def attachment = new
AsynchronousMailAttachment()
        assertNull attachment.attachmentName
        assertEquals
AsynchronousMailAttachment.DEFAULT_MIME_TYPE,
attachment.mimeType
        assertNull attachment.content
        assertFalse attachment.inline
    }
    ...
}
```

```
package grails.plugin.asyncmail

import grails.test.mixin.TestFor
import spock.lang.Specification

import static
grails.plugin.asyncmail.AsynchronousMailAttachment.DEFAULT
_MIME_TYPE

@TestFor(AsynchronousMailAttachment)
class AsynchronousMailAttachmentSpec extends Specification {

    void "testing default constructor"() {
        when:
            AsynchronousMailAttachment attachment = new
AsynchronousMailAttachment()

        then:
            !attachment.attachmentName
            attachment.mimeType == DEFAULT_MIME_TYPE
            !attachment.content
            !attachment.inline
    }
    ...
}
```

Update Integration Test Cases

```
package grails.plugin.asyncmail

class AsynchronousMailTests extends GroovyTestCase {
    public static final String VALUE_MAIL =
        'test@example.com'

    AsynchronousMailService asynchronousMailService;

    void testSendAsynchronousMail(){
        asyncMailService.sendMail {
            to VALUE_MAIL
            subject 'Test'
            text 'Test'

            immediate false
        }

        AsynchronousMailMessage message =
        AsynchronousMailMessage.findAll()[0]

        assertEquals(VALUE_MAIL, message.to[0])
        assertEquals(MessageStatus.CREATED, message.status)
    }
}
```

```
package grails.plugin.asyncmail
import grails.test.mixin.integration.Integration
import grails.transaction.Rollback
import org.springframework.beans.factory.annotation.Autowired
import spock.lang.Specification

import static grails.plugin.asyncmail.enums.MessageStatus.CREATED

@Integration
@Rollback
class AsynchronousMailServiceSpec extends Specification {

    public static final String VALUE_MAIL = 'test@example.com'

    @Autowired
    AsynchronousMailService asynchronousMailService

    void testSendAsynchronousMail(){
        when:
            asynchronousMailService.sendMail {
                to VALUE_MAIL
                subject 'Test'
                text 'Test'
                immediate false
            }
            AsynchronousMailMessage message =
            asynchronousMailMessage.findAll()[0]

        then:
            VALUE_MAIL == message.to[0]
            CREATED == message.status
    }
}
```

Checklist Before Sending Pull Request

- ☐ All unused files are removed/deleted.
- ☐ All unused imports are removed.
- ☐ All Unit/Integration test cases are passing.
- ☐ All functional tests are passing.

Now ???

Send Pull Request

kefirfromperm / **grails-asynchronous-mail**

Unwatch

Code

Issues 4

Pull requests 0

Wiki

Pulse

Graphs

The Grails Asynchronous Mail plugin <http://grails.org/plugin/asynchronous-mail>

329 commits

2 branches

7 releases

Branch: master

New pull request

Create new file

Upload files



kefirfromperm Java 7 compatibility

gradle/wrapper

Updated .gitignore

Send Pull Request

kefirfromperm / **grails-asynchronous-mail**

Unwatch ▾

8

★ Star

13

<> Code

! Issues 4

🔗 Pull requests 0

📖 Wiki

⚡ Pulse

📊 Graphs

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).



base fork: kefirfromperm/grails-asyn...

base: 1.0.x ▾

...

head fork: puneetbehl/grails-asynchr...

compare: master ▾

✓ **Able to merge.** These branches can be automatically merged.

🔗 Create pull request

Discuss and review the changes in this comparison with others.

🔗 Commits 121

📄 Files changed 63

💬 Commit comments 3



Commits on Nov 07, 2013



Vitalii Samolovskikh

Upgrade Grails version to 2.3.1

Next steps???

Next steps...

- Publish plugin
- Update documentation

Publish Plugin

- Signup/Signin to <https://bintray.com> (one-click signin with GitHub or Twitter)
- Create a new maven repository called plugins on your account
- Edit “build.gradle” to customize default configurations
- Now, to public run “gradle bintrayUpload”

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<https://medium.com/@benorama/how-to-publish-your-grails-3-plugin-to-bintray-c341b24f567d#.p8xru1av2>

Few useful tips

- **Default plugin configuration** file == `plugin.(yml/groovy)`
- **Travis Integration** - Nicely indicates & reports if new changes and pull request breaks something in test cases
- **Demo Application**
- Goto **Grails slack** #questions & #plugin channel for more help
- Use **@Commons** on plugin descriptor class or **@Slf4j** for log support
- **grails install** to install plugin locally and use it directly in your project

Questions?

Thank you