Release Process

- How to cut a new Apache Empire-db release.
  - Before you get started
    - Setup
    - Make sure maven uses Java 7
  - Creating a new RC
    - Update the changelog file
    - Prepare the release
    - Perform the release
    - Close the staging repository
    - Create Distribution checksums
    - Upload the Distribution
  - Initiate a vote
  - Unsuccessful vote: roll back changes on trunk
  - Successful vote: Promoting the RC as release
    - Copy RC tag to release tag
    - Promote the nexus staging files
    - Set up new release in JIRA / close old one
    - Move the release files to the dist location
    - Update the Empire-db website
    - Announce release

How to cut a new Apache Empire-db release.

This document explains how to cut a new empire-db release. Since we normally do this in Linux I expect you to have a Linux environment at hand. For windows users Cygwin might be a solution. This document is based on the Maven release documentation.

The general incubator release guide is available here: http://incubator.apache.org/guides/releasemanagement.html but since we are out of incubation the docs are here: http://www.apache.org/dev/release

The apache central maven repo release guide is available here: http://www.apache.org/dev/publishing-maven-artifacts.html

The release process takes about one hour to perform, don't do this in a hurry as it is important to perform each step in the correct order!

Before you get started

Setup

Make sure your system is set up correctly and that you have the needed credentials

- you have all Maven servers defined in your settings.xml. For more information, please refer to Committer settings. This is what mine looks like:
• you have created your GPG keys. For more information, please refer to Making GPG Keys and http://www.apache.org/dev/release-signing.html
• you have a GPG client installed and on your shell's path. See http://www.gnupg.org/
• you have a Subversion 1.5+ client installed and on your shell's path. See http://subversion.tigris.org/
• you have the latest Java 1.6.x JDK installed and on your shell's path. See http://www.oracle.com/technetwork/java/javase/downloads/java-archive-downloads-javase6-419409.html
• you have set the environment variable MAVEN_OPTS=-Xmx512m
• you are using Maven 3.2.x. See http://maven.apache.org/

Make sure maven uses Java 7

Although Empire-db is compatible with Java 6 we are building Releases using JDK 7 in order to avoid certificate issues.

Java 8 or later have not been tested and approved.

The build process has been performed using Maven 3.3.9.

If Java 8 or later is installed on the machine, possibly create a mvn7 shell script and add it to your PATH in order to be able to use Java 7 to build the release.

```
#!/bin/sh
JAVA_HOME="/usr/lib/jvm/java7"
mvn $@
```

test the script by running this command:
Creating a new RC

Update the changelog file

Edit CHANGELOG.txt in your favorite editor and add the closed issues for this release. Info can be exported from jira.

Go to: https://issues.apache.org/jira/browse/EMPIRED\B/
In the versions due section go to the version you want to release
Click on release notes
Configure release notes to text
Copy the notes to our CHANGELOG.txt

Prepare the release

Make sure your code is up to date, builds, is available in your snapshot repository and has no local changes

You will be asked about the release versions. Make sure you enter a correct tag: apache-empire-db-[version]-rc[nr]. Once the release vote passes we can then copy this -rcX tag to the final version tag.

>mvn7 clean install
...>
>mvn7 clean release:clean
...>
>mvn7 release:prepare -Papache-release
...>
[INFO] Checking dependencies and plugins for snapshots ...
What is the release version for "Apache Empire-db Parent"? (org.apache.empire-db:empire-db-parent) 2.0.5: :
What is SCM release tag or label for "Apache Empire-db Parent"? (org.apache.empire-db:empire-db-parent) empire-
db-parent-2.0.5: : apache-empire-db-2.0.5-rc3
What is the new development version for "Apache Empire-db Parent"? (org.apache.empire-db:empire-db-parent) 2.0.6-\SNAPSHOT: :
[INFO] Transforming 'Apache Empire-db Parent'...
[INFO] Updating empire-db to 2.0.5
...

INFO: If during this prepare you get some subversion related errors, try to do an "svn update" and calling "mvn release:prepare" again. This will then continue the release preparation from where it stopped. You might have to do this multiple times!

If anything goes wrong during the release you can do a rollback:

>mvn7 release:rollback

Also run a svn diff/revert to make sure your working copy is clean

Perform the release

This step will upload the artifacts the the staging repository

>mvn7 release:perform

Close the staging repository

1. Go to: https://repository.apache.org and
2. log in
3. Select "Staging repositories"
4. Find the newly created repository and select "Close"
Follow the steps as described on http://maven.apache.org/developers/release/releasing.html (Close the staging repository)

Create Distribution checksums

The distribution files are now located in target/checkout/empire-db-dist

In order to create the checksums use:

```
>cd target/checkout/empire-db-dist (we want to have the same artifacts in the dist as in the repo)
>./checksums.sh
...
All Done. Files available in ./target
```

OR (if the previous failed/is not possible any more)

```
svn checkout https://svn.apache.org/repos/asf/empire-db/tags/apache-empire-db-2.0.5-rc3 ...
>cd apache-empire-db-2.0.5-rc3/empire-db-dist/
>mvn7 clean install -Papache-release
>./checksums.sh
...
All Done. Files available in ./target
```

For Windows you might want to use the "File Checksum Integrity Verifier" (fciv).


like e.g:

```
fcsv -md5 -wp target\apache-empire-db-2.4.6-dist.zip > target\apache-empire-db-2.4.6-dist.zip.md5
fciv -sha -wp target\apache-empire-db-2.4.6-dist.zip > target\apache-empire-db-2.4.6-dist.zip.sha
```

Upload the Distribution

Finally upload the generated files + rat report to the distribution directory using svn.

https://dist.apache.org/repos/dist/dev/empire-db

as explained here: http://www.apache.org/dev/release#upload-ci

Initiate a vote

Docs here: http://www.apache.org/dev/release#approving-a-release
The vote mail should look like this:

To: dev@empire-db.apache.org
Subject: [VOTE] Release Apache Empire-db 2.0.5 (rc3)

Hi,

We have just prepared a 2.0.5 release and we are now looking for approval of the PMC to publish the release.
More info on release requirements can be found here: http://www.apache.org/dev/release#approving-a-release

These are the major changes from our previous 2.0.4 release:

- xxx
- xxx

Changelog: https://git-wip-us.apache.org/repos/asf?p=empire-db.git;a=blob_plain;f=CHANGELOG.txt;hb=83c8fb2f7ed658aa788ccb49b3d4484c107a99

Git tag: https://git-wip-us.apache.org/repos/asf?p=empire-db.git;a=tag;h=6dbaa5a7a70655805385508548f2a3b6744b70e

Maven staging repository: https://repository.apache.org/content/repositories/org.apache.empire-db-044/

Distribution files are located here http://people.apache.org/~francisd/db/empire-db/

Rat report for the tag is available here: http://people.apache.org/~francisd/db/empire-db/rat.txt

Vote open for 72 hours.

[ ] +1
[ ] +0
[ ] -1

Make sure you provide the correct paths!
Now wait for the vote to succeed.

Unsuccessful vote: roll back changes on trunk

- Drop the staging repository in nexus
- Update the local code
- Use the maven versions plugin to roll back the version update

> mvn versions:set -DnewVersion=2.0.7-SNAPSHOT -Papache-release -DgenerateBackupPoms=false

- Commit the project
- Go to the create new RC step

Successful vote: Promoting the RC as release

Copy RC tag to release tag

Just use your preferred subversion tool to copy the rc tag to the final release tag
apache-empire-db-2.4.4-rc1 -> apache-empire-db-2.4.4

```
git show apache-empire-db-2.4.4-rc1
# copy the commit checksum, in this case 83c8fb2f7ed658aa788ccb49b3d4484c107a99

git tag -a apache-empire-db-2.4.4 83c8fb2f7ed658aa788ccb49b3d4484c107a99 -m "copy apache-empire-db-2.4.4-rc1 -> apache-empire-db-2.4.4"
```

Promote the nexus staging files

Log in to nexus as described above,
Go to: https://repository.apache.org and log in
Follow the steps as described on http://maven.apache.org/developers/release/releasing.html
(go to the staging section, right click on the staged release and select release)

Set up new release in JIRA / close old one

- Go to https://issues.apache.org/jira/browse/EMPIREDB
- Click on Administer Project / Administration
- Click on Manage versions
- Release current version
- Create new / edit versions if needed

Move the release files to the dist location

Docs here: http://www.apache.org/dev/release#upload-ci

2. Create a subdirectory with the version number (i.e. 2.0.5)
3. Copy all distribution files from your apache home directory to that directory (.zip, .tar.gz, .asc, .md5, .sha)
   scp francisdb@people.apache.org:~/public_html/empire-db/apprise-emire-db-* .
4. remove old releases:
   www.apache.org/dist should contain only the latest release
   http://www.apache.org/dev/release.html#when-to-archive
5. commit to the subversion repo
6. Wait before files become available on the mirrors

Update the Empire-db website

this part needs an update as we are out of the incubator/snvpubsub

1. Check out or update the Empire-db website source files from
   svn checkout https://svn.apache.org/repos/asf/empire-db/site
2. Update the doap_Empire-db.rdf file, add new version
3. Edit Pages with html editor (I am using Microsoft Expression Web)
4. Open page downloads/latest.htm and copy section with previous release files to downloads/previous.htm.
5. Make sure the links to previous versions point to the archive
6. In downloads/latest.htm replace all references to the old version number with new version number.
7. Update news.html
8. do a svn delete on javadocs/empire-db
9. commit
10. recreate the empire-db folder
11. fetch the new javadoc jar from http://repo1.maven.org/maven2/org/apache/empire-db/empire-db/x.x.x/empire-db-x.x.x-javadoc.jar
12. extract into the javadocs/empire-db folder
13. svn add the empire-db folder
14. Commit all changes to svn repo.
15. Wait some time for changes to become available on the mirrors.

Announce release

Send an E-Mail to announce@apache.org

Important: The e-mail must be sent from an apache e-mail account. It is sufficient if the from address contains an apache mail account. Put dev@empire-db.apache.org and user@empire-db.apache.org mailing lists in cc.

Start the mail as follows:

Subject: [ANNOUNCE] Apache Empire-db xxx released

The Apache Empire-db team is pleased to announce the release of Apache Empire-db version xxx.
Apache Empire-db is a lightweight data access and persistence component for relational databases based on JDBC. http://empire-db.apache.org/

Main improvements listed below:

[add description and list of changes]

Changelog: https://git-wip-us.apache.org/repos/asf?p=empire-db.git;a=blow_plain,f=CHANGELLOG.txt;hb=83c8b277ed658aa788c9b3d3d4494c107a999


Thank you for your interest in Apache Empire-db!

The Apache Empire-db Team.
Maybe send the release to some other sites as well (dzone) / do a blog post about it...