Chapter 3

Lab 3.6 - Tagging Artifacts with Artifactory Pro

Introduction:

So far, we have looked at building and deploying individual projects with Jenkins and Artifactory. However, real-world applications can be much more complicated and may require several packages working together in production. This adds some complexity to managing releases - "How do you determine which versions will be deployed together?".

Prerequisites:

1. Running the Artifactory instance with port forwarding to 8081 (Chapter 3, Lab 3.4).
2. Running the Jenkins instance with port forwarding to 8080 (Chapter 2).
3. A Jenkins job that builds "spring-petclinic" and deploys to Artifactory (Chapter 3, Lab 3.5).
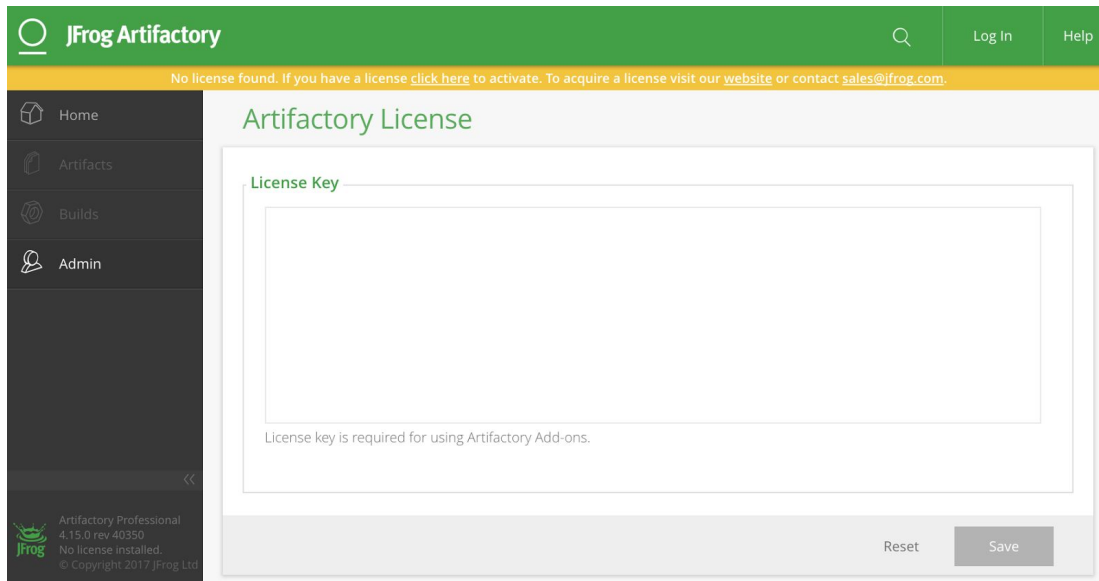
Upgrade to Artifactory Pro

1. Download and unzip the latest version of Artifactory Pro:

   ```
   $ wget -O jfrog-artifactory-pro.4.15.0.zip
   https://bintray.com/jfrog/artifactory-pro/download_file?file_path=org%2Fartif
   actory%2Fpro%2Fjfrog-artifactory-pro%2F4.15.0%2Fjfrog-artifactory-pro-4.15.0.
   zip
   $ unzip jfrog-artifactory-pro-4.15.0.zip
   ```

2. Replace the following folders and files from `/var/opt/jfrog/artifactory` with the corresponding files in the unzipped folder:

   - `webapps/artifactory.war`
   - `tomcat`
   - `bin`

   Tagging is a Pro feature of Artifactory, so a trial key must be obtained before continuing. Follow the directions at https://www.jfrog.com/artifactory/free-trial/, and copy the trial key that was emailed.

Use Case: Build Promotion

This is a problem that "Build Promotion" aims to solve. Suppose production requires three packages, A, B, and C, each with their own version release history. If A-1.2.3, B-1.3.2, and C-2.2.1 have been tested and approved to work together in production, then they are ready to be promoted. To accomplish this, you could give each of them a common tag in the artifact repository. This will make it much easier to deploy this artifact grouping when you are ready to deploy to production.