Jfrog-Day-2

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- ► **UC1: How to integrate Jfrog Artifactory with maven**
  - ○ **Pre-requisites**
    - ▪ Source code: https://github.com/yankils/hello-world.git
    - ▪ Tools:
      - □ Git
      - □ Maven
      - □ Jfrog

  - ○ **Integration maven with Jfrog steps**
    In order to publish the **Artifact into the jfrog online-bookstore-local repository**

    - ▪ Go to Jfrog **online-bookstore-local** repository & setup ==> Deploy

    - ▪ Copy the <distribution Management> XML code paste into pom.xml

    - ▪ Run mvn deploy {Will tries to deploy Artifact into **online-bookstore-local** repository}

    - ▪ Deploy failed due to authorization issue

    - ▪ Change the user-name & password for in ~/.m2/settings.xml(The user must have admin/write privileges)

    - ▪ mvn deploy
      The jar file along with pom.xml into Jfrog **online-bookstore-local** repository

    - ▪ ==Why snapshot pushed to libs-snapshot-local?==
      ==due to version tag contains 1.0-SNAPSHOT==

==b. Publish the Artifact into jfrog release repository==
  ==A. Remove -SNAPSHOT in pom.xml & run mvn deploy==
  ==B. Copy the <distribution Management> XML code of libs-release-local into pom.xml==
  ==C. Artifact will be pushed into libs-release repo==

- ► **UC2: Pull the dependencies from Jfrog artifactory rather than maven central repo**
  - ○ Rename the ~/.m2/setting.xml
    mv ~/.m2/setting.xml ~/.m2/setting_bkp.xml

  - ○ Go setup of "jcenter" repository in Jfrog & generate settings.xml file, next create ~/.m2/settings.xml file with generated content
  - ○
    ```
    <repositories>
      <repository>
        <snapshots>
          <enabled>false</enabled>
        </snapshots>
        <id>central</id>
        <name>libs-release</name>
        <url>http://54.172.2.32:8081/artifactory/libs-release</url>
      </repository>
      <repository>
        <snapshots />
        <id>snapshots</id>
        <name>libs-snapshot</name>
        <url>http://54.172.2.32:8081/artifactory/libs-snapshot</url>
      </repository>
    </repositories>
    ```

  - ○ mvn clean install
    Artifacts will be downloaded from jfrog remote repo

  - ○ Rename the ~/.m2/setting_bkp.xml to settings.xml
    mv ~/.m2/setting_bkp.xml ~/.m2/setting.xml

  - ○ mvn clean install
    Now artifacts will be downloaded from central maven repository present in internet.

► **UC3: How to integrate Jfrog Artifactory with Jenkins Maven project** - **Try this scenario once**

- o Install "Artifactory" plug-in
    - ▪ Manage Jenkins -> Jenkins Plugins -> available -> artifactory
    - ▪ Configure Artifactory server credentials

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    - o Manage Jenkins -> Configure System -> Artifactory
      Artifactory Servers
      Server ID : Artifactory-Server
      URL : Artifactory Server URL
      Username : jenkins
      Password : jenkins@123

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    - o Create a Maven Project
        - ▪ **Job Name** : artifactory-project
        - ▪ Source code management
            - ▫ Git URL : https://github.com/chaitanyaredd/hello-world.git
        - ▪ Build Environment

          Resolve artifacts from Artifactory : <provide Artifactory server and repository details>
          Build - Goals: clean install
          Post-build Actions
          Deploy Artifacts to Artifactory : <provide Artifactory server and repository details>
          Execute job

► **UC4: How to download Jfrog Artifact with Jenkins Freestyle project-Try this scenario once**

► **Webhook**