

Getting Started

Services Jenkinsfile based build
Nexus OSS Repository for npm, maven and docker repositories

Shared Library DSL for mvn, nexus and docker

URLs <https://cloudci.fadv.com/jenkins/>
<https://cloudci.fadv.com/nexus/>
<https://cloudci.fadv.com/jenkins/view/PA/>

Agents **any**
Use **any** by default. Other modes to be available soon.
E.g. pipeline { agent any ... }

Sample 1 - Maven Library Project

```
pipeline {
  agent any
  stages {
    stage('Build') {
      agent {
        docker {
          image mvn.jdk8()
          args mvn.OPTS()
          reuseNode true
        }
      }
      steps {
        mvn 'clean
install'
      }
    }
    stage('Publish') {
      steps {
        publish 'maven'
      }
    }
  }
}
```

Builds a Java 8 Project and Publishes the artifact to Nexus.

Sample 2 - Maven Service Project

```
pipeline {
  agent any
  stages {
    stage('Build') {
      agent {
        docker {
          image mvn.jdk8()
          args mvn.OPTS()
          reuseNode true
        }
      }
      steps {
        mvn 'clean
install'
      }
    }
    stage('Publish') {
      steps {
        publish 'maven'
      }
    }
  }
}
```

Builds a **Maven Java 8** Project and Publishes the artifact to **Nexus** and Generates a **docker** image and pushes it to FADV Image Repository.

Maven DSL

mvn <i>goals</i>	The default DSL for maven args and sub commands. E.g., mvn 'clean install'
.jdk8()	Returns the JDK8 Maven Docker image to use.
maven:3.6.0-jdk-8-alpine	To be used whenever you need the recommended JDK 8 maven container. Mostly in agent docker sections.
.jdk11()	Returns the JDK 11 Maven Docker image to use.
maven:3.6.0-jdk-11	

Maven DSL (cont)

.OPTS() Returns docker options to mount standard m2 repository and other defaults. Use this to significantly improve your build performance. But you can skip it to get "clean" builds.

Examples

```
docker {
  image mvn.jdk8()
  args mvn.OPTS()
  reuseNode true
}

steps {
  mvn 'package -Pdocker'
}

steps {
  mvn 'clean install -DskipTests'
}
```

Publish Artifacts

Publishing is supported for the following image formats

Maven or Jar

NPM components

docker containers

URL <https://cloudci.fadv.com/nexus>

Roles

Reader **fadvreposer**. The default readonly user for your application development. Provides read of all artifacts.

Write **fadvciuser**. The Nexus user with write permissions, mainly to be used by the CI system.

Publishing Maven Artifacts



By **Arun N Kumar** (gettoarun)
cheatography.com/gettoarun/
www.arunkumar.io

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Sample **settings.xml** entry

```
<server>
  <id>fadv-m2</id>
  <username>fadvrepouser</username>
  <password> contact admin </password>
</server>
```

Sample **pom.xml** entry

```
<repositories>
  <repository>
    <id>fadv-m2</id>
    <url>https://cloudci.fadv.com/nexus/rep-
ository/fadv-m2/</url>
  </repository>
</repositories>
```

Publishing NPM Artifacts

TBD

Publishing Docker Artifacts

TBD

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