

# Cheatography

## First Advantage Jenkins Cheat Sheet

by Arun N Kumar (gettoarun) via cheatography.com/26194/cs/19433/

### 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  
                }  
            }  
            mvn 'clean install'  
        }  
        stage('Publish') {  
            steps {  
                publish 'maven'  
            }  
        }  
    }  
}
```

```
stage('Publish') {  
    steps {  
        publish 'maven'  
    }  
}
```

Builds a Java 8 Project and Publishes the

### Sample 2 - Maven Service Project

```
pipeline {  
    agent any  
    stages {  
        stage('Build') {  
            agent {  
                docker {  
                    image mvn.jdk8()  
                    args mvn.OPTS()  
                    reuseNode true  
                }  
            }  
            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

### 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** **fadvrepouser**. 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

artifact to Nexus.

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

Sample **settings.xml** entry

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

Sample **pom.xml** entry

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

## Publishing NPM Artifacts

TBD

## Publishing Docker Artifacts

TBD



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

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