

# Artifactory 설치 가이드

이 문서는 Artifactory 설치 가이드를 공유한다.

- 설치 환경
- Artifactory Install
  - Artifactory를 위한 Database & DBuser 생성
  - Artifactory 다운로드
  - Artifactory port 변경
  - Artifactory 시작
  - Artifactory web 접속
- Artifactory Database 변경
  - Artifactory를 중단
  - Artifactory Database 설정 변경
  - Postgresql Jdbc driver 다운로드
  - Artifactory 시작
  - Artifactory web 접속

## 설치 환경

OS : CentOS 7

Java : jdk1.8

Database : Postgresql 9.3

## Artifactory Install

### Artifactory를 위한 Database & DBuser 생성

```
$ su - postgres
-bash$ psql
postgres=# CREATE USER artifactory with PASSWORD 'artifactory';
postgres=# CREATE DATABASE artifactory WITH OWNER=artifactory ENCODING='UTF8';
postgres=# GRANT ALL PRIVILEGES ON DATABASE artifactory TO artifactory;
postgres=# \q
-bash$ exit
$
```

## Artifactory 다운로드

Artifactory를 다운로드 받는다.(<https://bintray.com/jfrog/artifactory/jfrog-artifactory-oss-zip/view>)

압축을 해제 한 후 /opt/artifactory로 이동 시킨다.

```
$ ls /opt/artifactory
artifactory-oss-5.1.1.0.zip
```

## Artifactory port 변경

기본 포트는 8081이다. 충돌이 날 경우 다른 포트로 변경 한다.

```

$ vi /opt/artifactory/tomcat/conf/server.xml
$ cat /opt/artifactory/tomcat/conf/server.xml
<Server port="8015" shutdown="SHUTDOWN">
  <Service name="Catalina">
    <Connector port="8081"/>
    <!-- This is the optional AJP connector -->
    <Connector port="8019" protocol="AJP/1.3"/>
    <Engine name="Catalina" defaultHost="localhost">
      <Host name="localhost" appBase="webapps"/>
    </Engine>
  </Service>
</Server>

```

## Artifactory 시작

/opt/artifactory/bin/artifactory.sh start 명령어로 실행

```

[root@localhost artifactory]# cd bin
[root@localhost bin]# ls
artifactory.bat  artifactory.default  artifactory.sh  installService.bat  uninstallService.bat
artifactoryctl  artifactory-service.exe  configure.mysql.sh  installService.sh  uninstallService.sh
[root@localhost bin]# ./artifactory.sh start
Found java executable in JAVA_HOME (/usr/local/java)
Using CATALINA_BASE:   /opt/artifactory/tomcat
Using CATALINA_HOME:   /opt/artifactory/tomcat
Using CATALINA_TMPDIR: /opt/artifactory/tomcat/temp
Using JRE_HOME:        /usr/local/java
Using CLASSPATH:       /opt/artifactory/tomcat/bin/bootstrap.jar:/opt/artifactory/tomcat/bin/tomcat-juli.jar
Using CATALINA_PID:    /opt/artifactory/run/artifactory.pid
Tomcat started.
[root@localhost bin]# █

```

## Artifactory web 접속

<http://ipaddress:8081> 접속 한다. 기본 port는 8081이다. Next 버튼을 클릭 한다.

**Welcome to JFrog Artifactory!**

This wizard will get your Artifactory set up in just a few short leaps.  
You can change any settings later - so let's begin!

Next

패스워드 입력 후 Next 버튼을 클릭 한다.

JFrog Artifactory

Log In Help

## Set Admin Password

This new password is for the default admin user.  
Want to skip? Find the default admin credentials in the [JFrog Artifactory User Guide](#).

.....

.....

Password Strength

Back Skip **Next**

Configure a Proxy Server Skip 버튼을 클릭한다.

JFrog Artifactory

Configure a Proxy Server

This lets you access resources remotely.

Proxy Key \*  System Default ?

Host \*

Port \*

More Options

Skip Next

Create Repositories 필자는 일단 skip을 하였다.

**Jfrog Artifactory** Welcome, admin Help

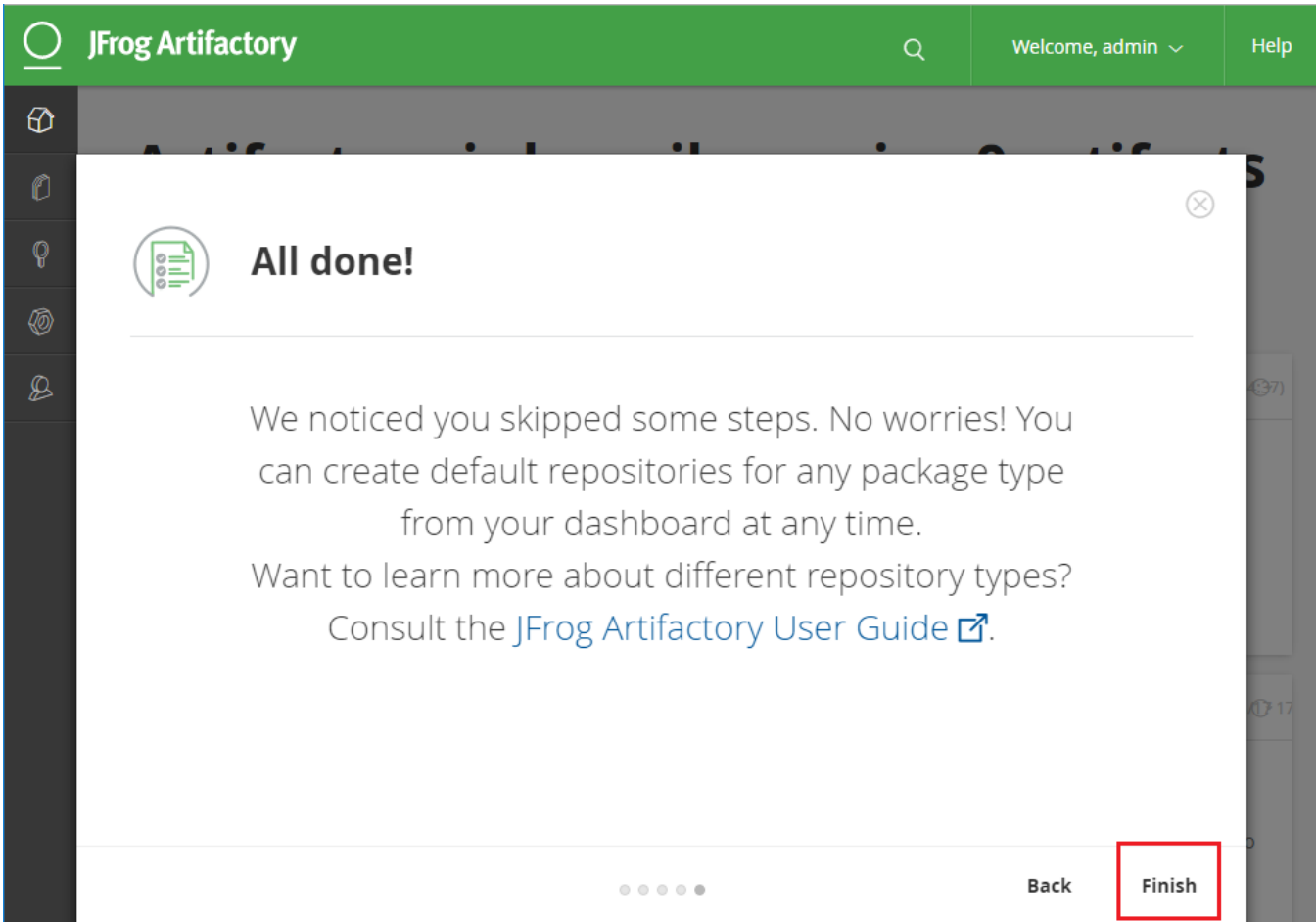
### Create Repositories

Select the package type(s) you want - we'll create the default repositories for you!  
Need to skip? No worries, create and manage repositories anytime.

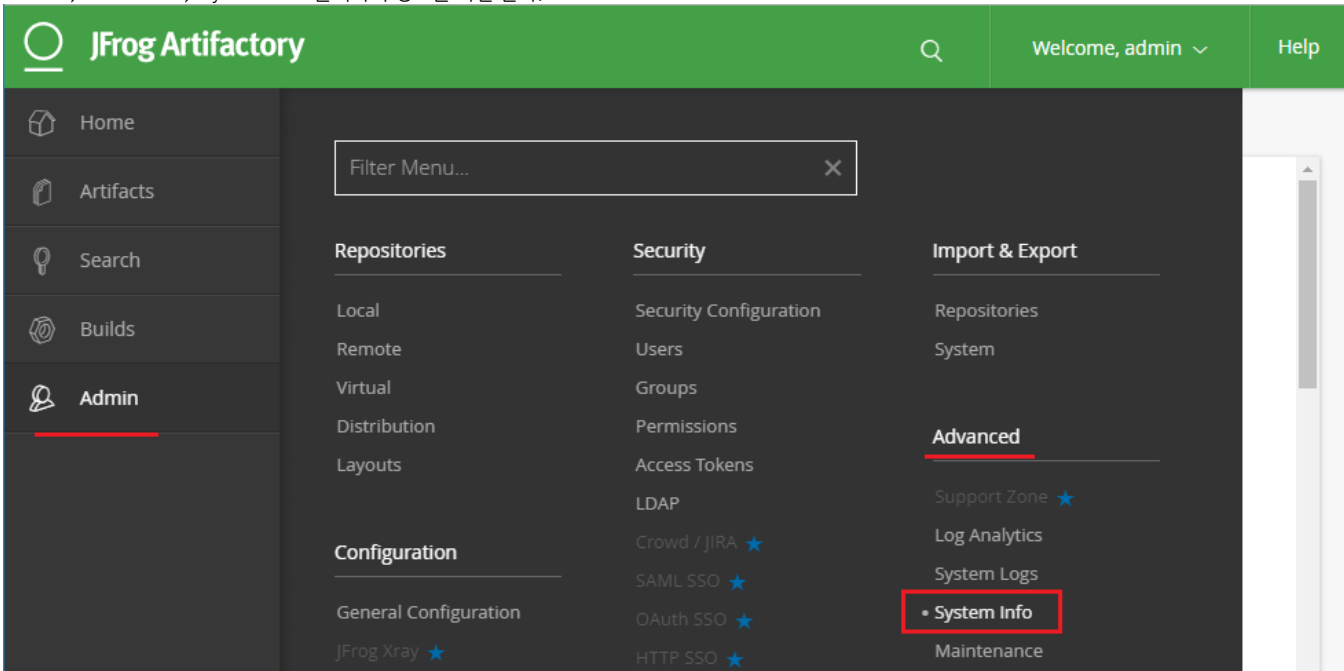
Generic	Gradle	Ivy	maven	SBT	Bower	Chef
CocoaPods	Conan	debian	docker	Gems	Git LFS	npm
NuGet	Opkg	Composer	Puppet	PyPI	rpm	VALGRANT

Back **Skip** Create

Finish 버튼을 클릭 하여 마친다.



Admin > Advanced > System Info 클릭하여 정보를 확인 한다.



Database가 derby 로 설치가 완료 되었다.

The screenshot shows the JFrog Artifactory web interface. The top navigation bar is green with the JFrog logo, a search icon, and user information 'Welcome, admin' and 'Help'. The main content area is titled 'System Info' and contains a 'Storage Info' section highlighted with a red box. The 'Storage Info' section lists the following details:

- Database Type: derby
- Connection Url: jdbc:derby:/opt/artifactory/data/derby;create=true
- Storage Type: file-system

Below the 'Storage Info' section, the 'System Properties' section is partially visible.

## Artifactory Database 변경

### Artifactory를 중단

artifactory database를 변경 하기위해 artifactory를 중단 한다.

```
[root@localhost bin]# ./artifactory.sh stop
Found java executable in JAVA_HOME (/usr/local/java)
finding
Using the default catalina management port (8015) to test shutdown
Stopping Artifactory Tomcat...
Using CATALINA_BASE:   /opt/artifactory/tomcat
Using CATALINA_HOME:   /opt/artifactory/tomcat
Using CATALINA_TMPDIR: /opt/artifactory/tomcat/temp
Using JRE_HOME:        /usr/local/java
Using CLASSPATH:       /opt/artifactory/tomcat/bin/bootstrap.jar:/opt/artifactory/tomcat/bin/tomcat-juli.jar
Using CATALINA_PID:    /opt/artifactory/run/artifactory.pid
Tomcat stopped.
Artifactory Tomcat stopped
[root@localhost bin]#
```

### Artifactory Database 설정 변경

기존 db.properties를 파일을 old로 이름을 변경하고 postgresql.properties를 복사하여 db.properties으로 변경 한다.  
vi 편집기로 db.properties를 정보를 Database Postgresql 설정에 맞게 변경 하고 저장 한다.



```
[root@localhost bin]# mv /opt/artifactory/etc/db.properties /opt/artifactory/etc/db.properties.old
[root@localhost bin]# cp /opt/artifactory/misc/db/postgresql.properties /opt/artifactory/etc/db.properties
[root@localhost bin]# vi /opt/artifactory/etc/db.properties
[root@localhost bin]# cat /opt/artifactory/etc/db.properties
```

```
#
#
# Artifactory is a binaries repository manager.
# Copyright (C) 2016 JFrog Ltd.
#
# Artifactory is free software: you can redistribute it and/or modify
# it under the terms of the GNU Affero General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# Artifactory is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU Affero General Public License for more details.
#
# You should have received a copy of the GNU Affero General Public License
# along with Artifactory. If not, see <http://www.gnu.org/licenses/>.
#
#
```

```
type=postgresql
driver=org.postgresql.Driver
url=jdbc:postgresql://localhost:5432/artifactory
username=artifactory
password=artifactory
```

## Postgresql Jdbc driver 다운로드

Artifactory 실행시 postgresql jdbc driver가 없어 Error가 발생한다. 따라서 postgresql jdbc driver를 다운 받는다.

cd /opt/artifactory/tomcat/lib

wget <https://jdbc.postgresql.org/download/postgresql-9.3-1104.jdbc41.jar>

```
[root@localhost artifactory]# cd tomcat/lib
[root@localhost lib]# ls
annotations-api.jar  el-api.jar          tomcat-api.jar      tomcat-jni.jar      tomcat-util-scan.jar
catalina.jar         servlet-api.jar     tomcat-coyote.jar   tomcat-util.jar
[root@localhost lib]# wget https://jdbc.postgresql.org/download/postgresql-9.3-1104.jdbc41.jar
--2017-03-14 07:00:48-- https://jdbc.postgresql.org/download/postgresql-9.3-1104.jdbc41.jar
Resolving jdbc.postgresql.org (jdbc.postgresql.org)... 174.143.35.228, 2001:4800:1501:1::228
Connecting to jdbc.postgresql.org (jdbc.postgresql.org)|174.143.35.228|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 594994 (581K) [application/java-archive]
Saving to: 'postgresql-9.3-1104.jdbc41.jar'

100%[=====>] 594,994      368KB/s   in 1.6s

2017-03-14 07:00:51 (368 KB/s) - 'postgresql-9.3-1104.jdbc41.jar' saved [594994/594994]

[root@localhost lib]# ls
annotations-api.jar  el-api.jar          servlet-api.jar     tomcat-coyote.jar   tomcat-util.jar
catalina.jar        postgresql-9.3-1104.jdbc41.jar  tomcat-api.jar      tomcat-jni.jar      tomcat-util-scan.jar
[root@localhost lib]# █
```

## Artifactory 시작

Artifactory web 접속을 하기 위해 실행 명령어를 실행한다.

```
[root@localhost bin]# ./artifactory.sh start
Found java executable in JAVA_HOME (/usr/local/java)
Using CATALINA_BASE:   /opt/artifactory/tomcat
Using CATALINA_HOME:   /opt/artifactory/tomcat
Using CATALINA_TMPDIR: /opt/artifactory/tomcat/temp
Using JRE_HOME:        /usr/local/java
Using CLASSPATH:       /opt/artifactory/tomcat/bin/bootstrap.jar:/opt/artifactory/tomcat/bin/tomcat-juli.jar
Using CATALINA_PID:    /opt/artifactory/run/artifactory.pid
Tomcat started.
[root@localhost bin]# █
```

## Artifactory web 접속

<http://ipaddress:8081> 접속 한다. 기본 port는 8081이다. Next 버튼을 클릭 한다.

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JFrog Artifactory

Welcome, admin

Help

### Configure a Proxy Server

This lets you access resources remotely.

Proxy Key \*  System Default ?

Host \*

Port \*

More Options

Skip Next

Create Repositories 필자는 일단 skip을 하였다.

**Jfrog Artifactory** Welcome, admin Help

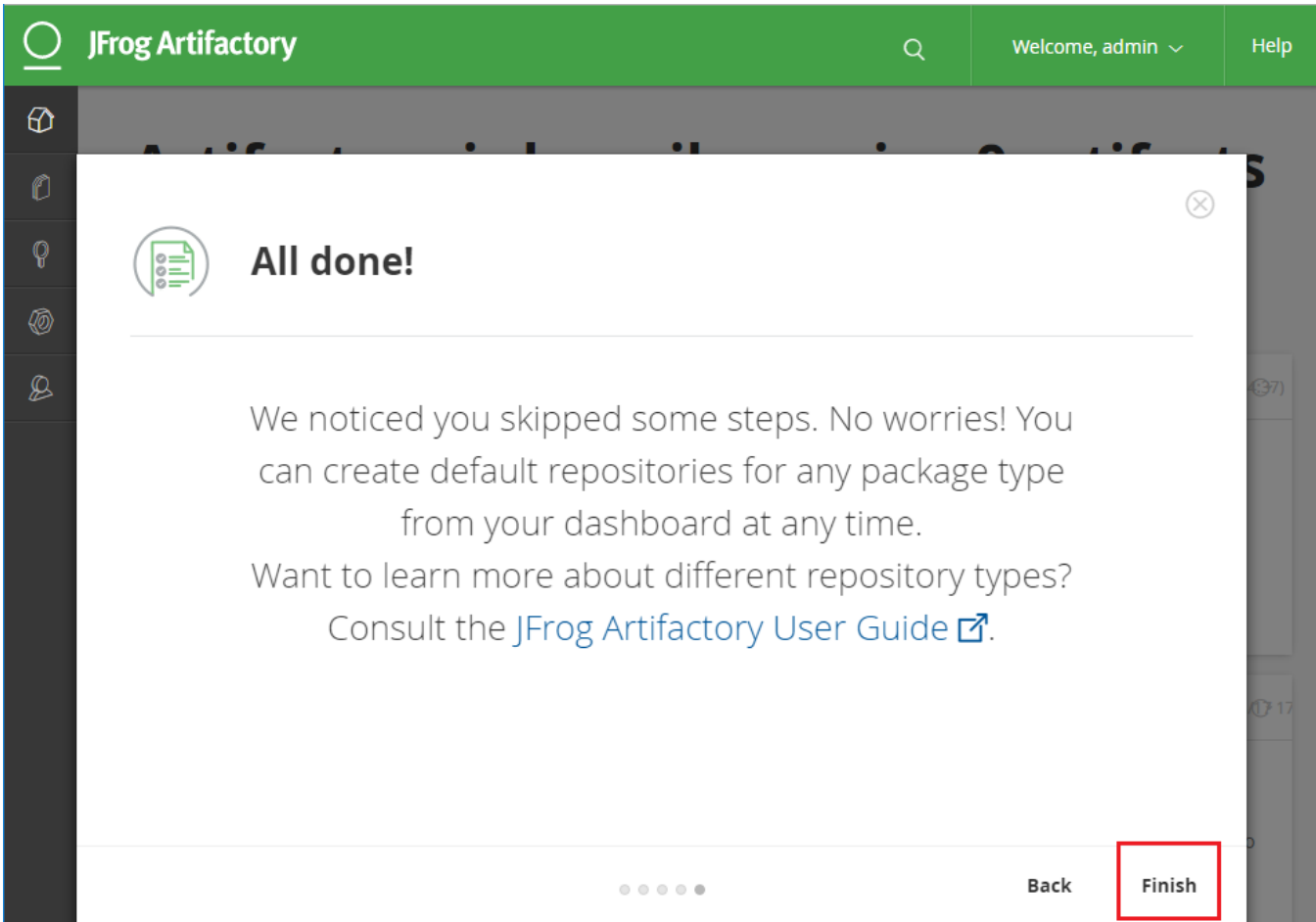
### Create Repositories

Select the package type(s) you want - we'll create the default repositories for you!  
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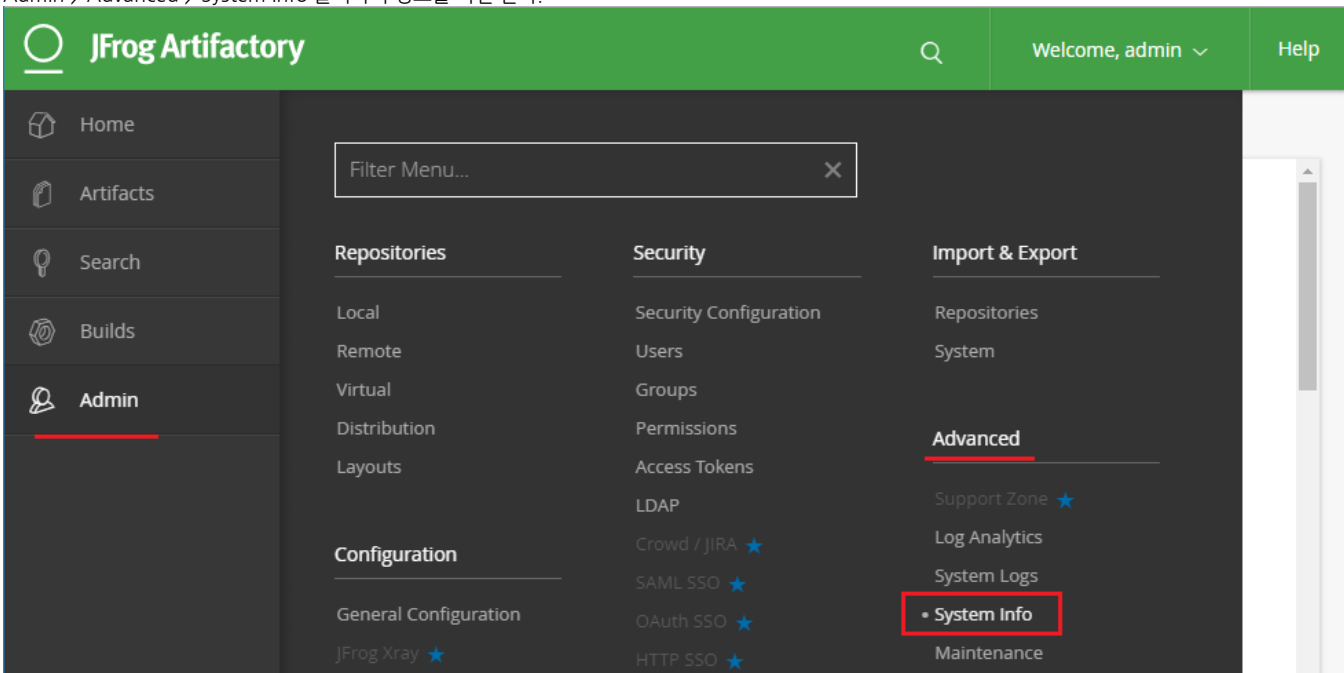
Generic	Gradle	Ivy	Maven	SBT	Bower	Chef
CocoaPods	Conan	debian	docker	Gems	Git LFS	npm
NuGet	Opkg	Composer	Puppet	PyPI	rpm	VALRANT

Back **Skip** Create

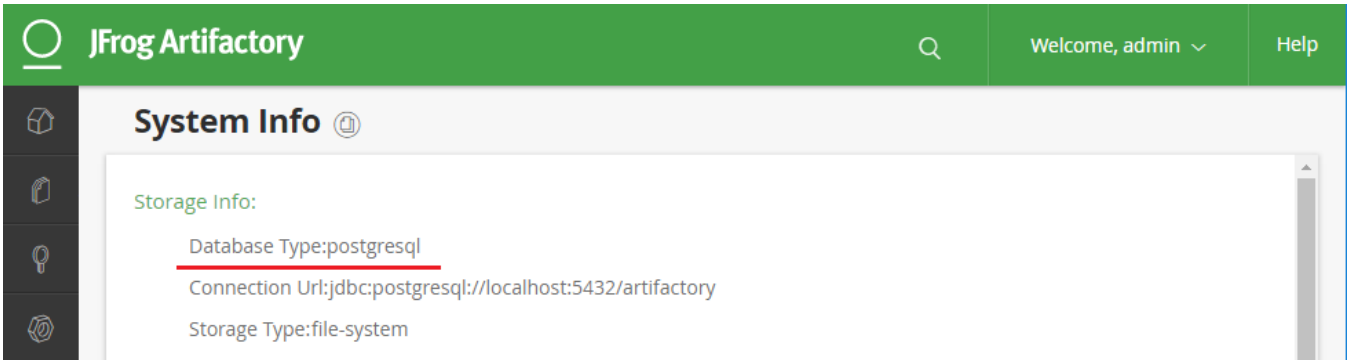
Finish 버튼을 클릭 하여 마친다.



Admin > Advanced > System Info 클릭하여 정보를 확인 한다.



Database가 Postgresql으로 변경 되었음을 확인 할 수 있다.



The screenshot shows the JFrog Artifactory web interface. At the top is a green navigation bar with the JFrog logo, the text 'JFrog Artifactory', a search icon, a user profile 'Welcome, admin', and a 'Help' link. Below the navigation bar is a dark sidebar with icons for home, storage, keys, and settings. The main content area is titled 'System Info' and contains the following text:

Storage Info:

- Database Type: postgresql
- Connection Url: jdbc:postgresql://localhost:5432/artifactory
- Storage Type: file-system