

# Ein erstes Projekt

IDE: IntelliJ  
Build-Tool: Maven



2 Maven

Project SDK: 1.8 (java version "1.8.0\_102")

Create from archetype

Add Archetype...

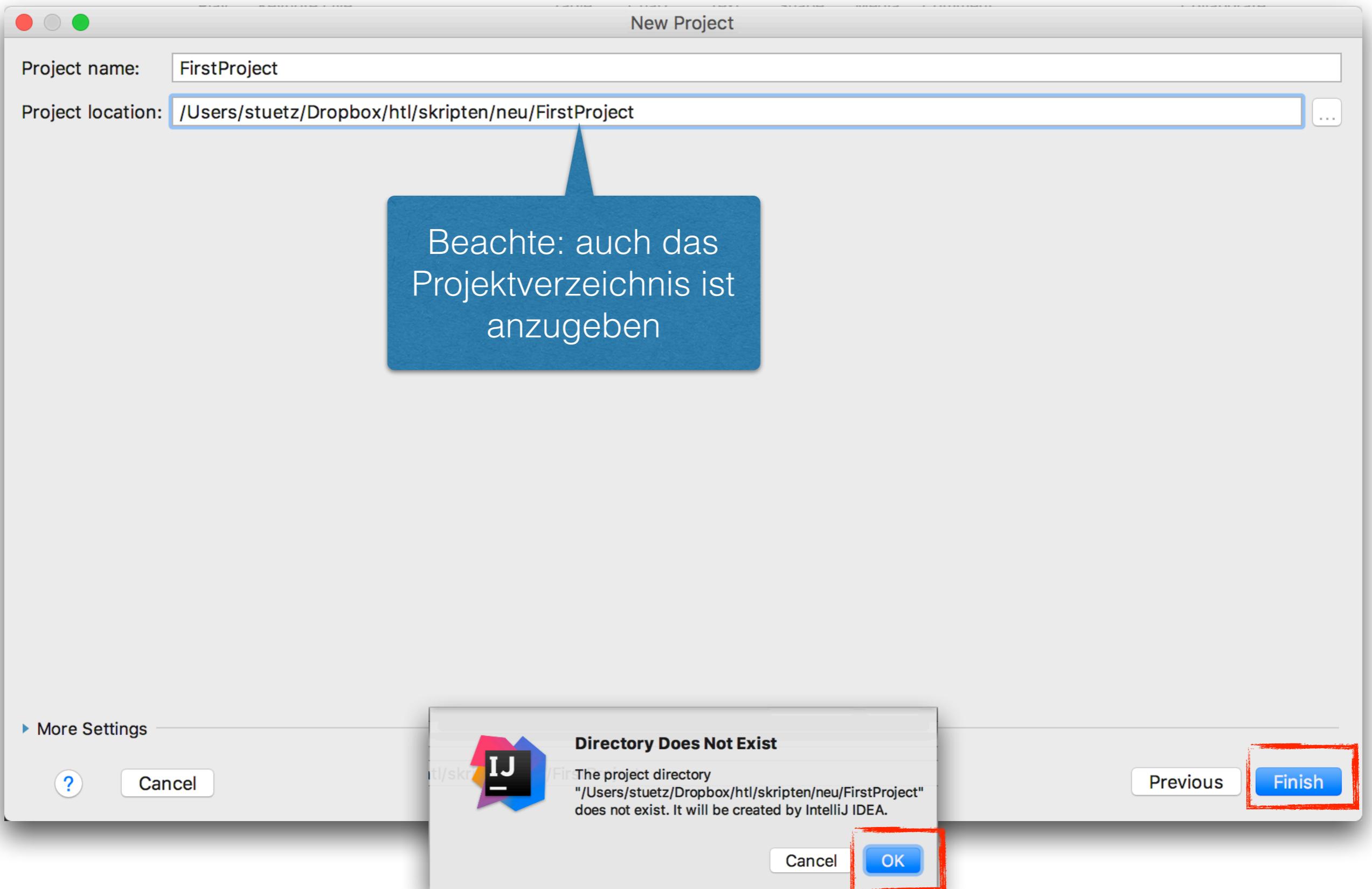
- com.atlassian.maven.archetypes:bamboo-plugin-archetype
- com.atlassian.maven.archetypes:confluence-plugin-archetype
- com.atlassian.maven.archetypes:jira-plugin-archetype
- com.rfc.maven.archetypes:jpa-maven-archetype
- de.akquinet.jbosscc:jbosscc-seam-archetype
- net.databinder:data-app
- net.liftweb:lift-archetype-basic
- net.liftweb:lift-archetype-blank
- net.sf.maven-har:maven-archetype-har
- net.sf.maven-sar:maven-archetype-sar
- org.apache.camel.archetypes:camel-archetype-activemq
- org.apache.camel.archetypes:camel-archetype-component
- org.apache.camel.archetypes:camel-archetype-java
- org.apache.camel.archetypes:camel-archetype-scala
- org.apache.camel.archetypes:camel-archetype-spring
- org.apache.camel.archetypes:camel-archetype-war
- org.apache.cocoon:cocoon-22-archetype-block
- org.apache.cocoon:cocoon-22-archetype-block-plain
- org.apache.cocoon:cocoon-22-archetype-webapp
- org.apache.maven.archetypes:maven-archetype-j2ee-simple
- org.apache.maven.archetypes:maven-archetype-marmalade-mojo
- org.apache.maven.archetypes:maven-archetype-mojo

3 Next

New Project

GroupId	at.hzl. <del>firstproject</del>	<input checked="" type="checkbox"/> Inherit
ArtifactId	firstproject	
Version	1.0-SNAPSHOT	<input checked="" type="checkbox"/> Inherit

[?](#) Cancel Previous [Next](#)



firstproject - FirstProject - [~/Dropbox/htl/skripten/neu/FirstProject] - IntelliJ IDEA 2016.3 EAP

Project External Libraries

1: Project 2: Structure 3: Favorites

firstproject

FirstProject ~/Dropbox/htl/skripten/neu/FirstProject

External Libraries

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/mav
1           <groupId>at.htl.firstproject</groupId>
2           <artifactId>firstproject</artifactId>
3           <version>1.0-SNAPSHOT</version>
4
5       </project>
```

Maven projects need to be imported  
[Import Changes](#) [Enable Auto-Import](#)

Terminal 6: TODO Event Log

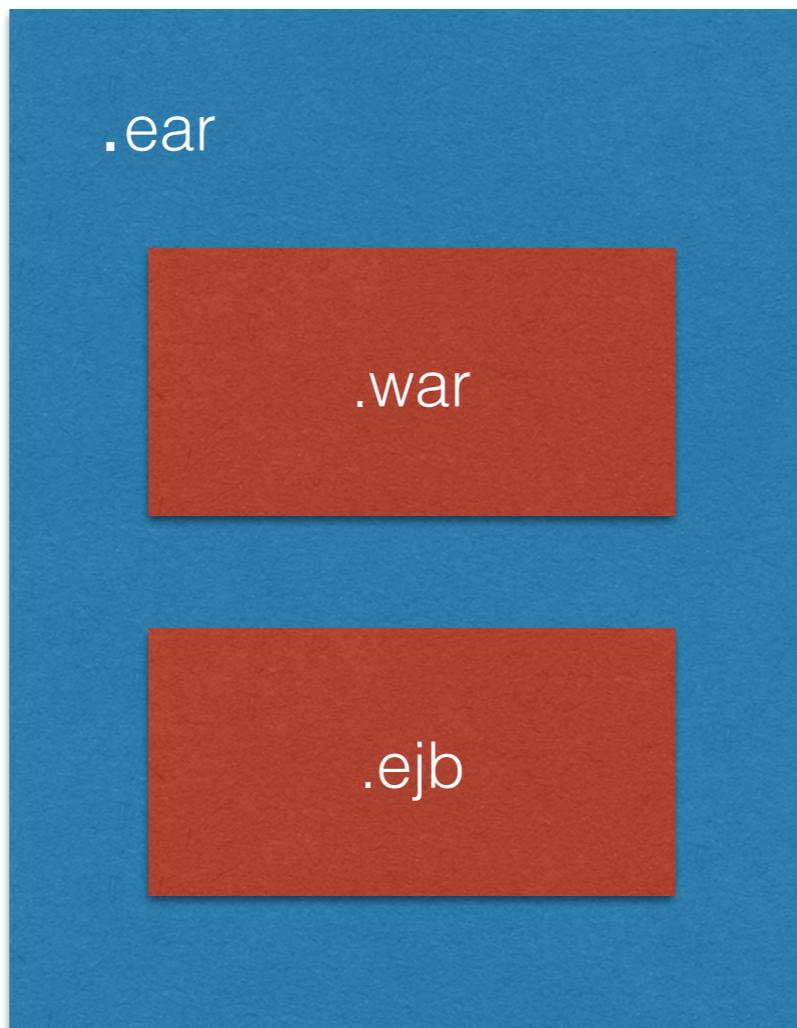
Maven projects need to be imported: Import Changes Enable Auto-Import (moments ago) 5

# Packaging Applications



für JavaSE

java archive



für JavaEE

enterprise archive  
enterprise java beans  
web archive

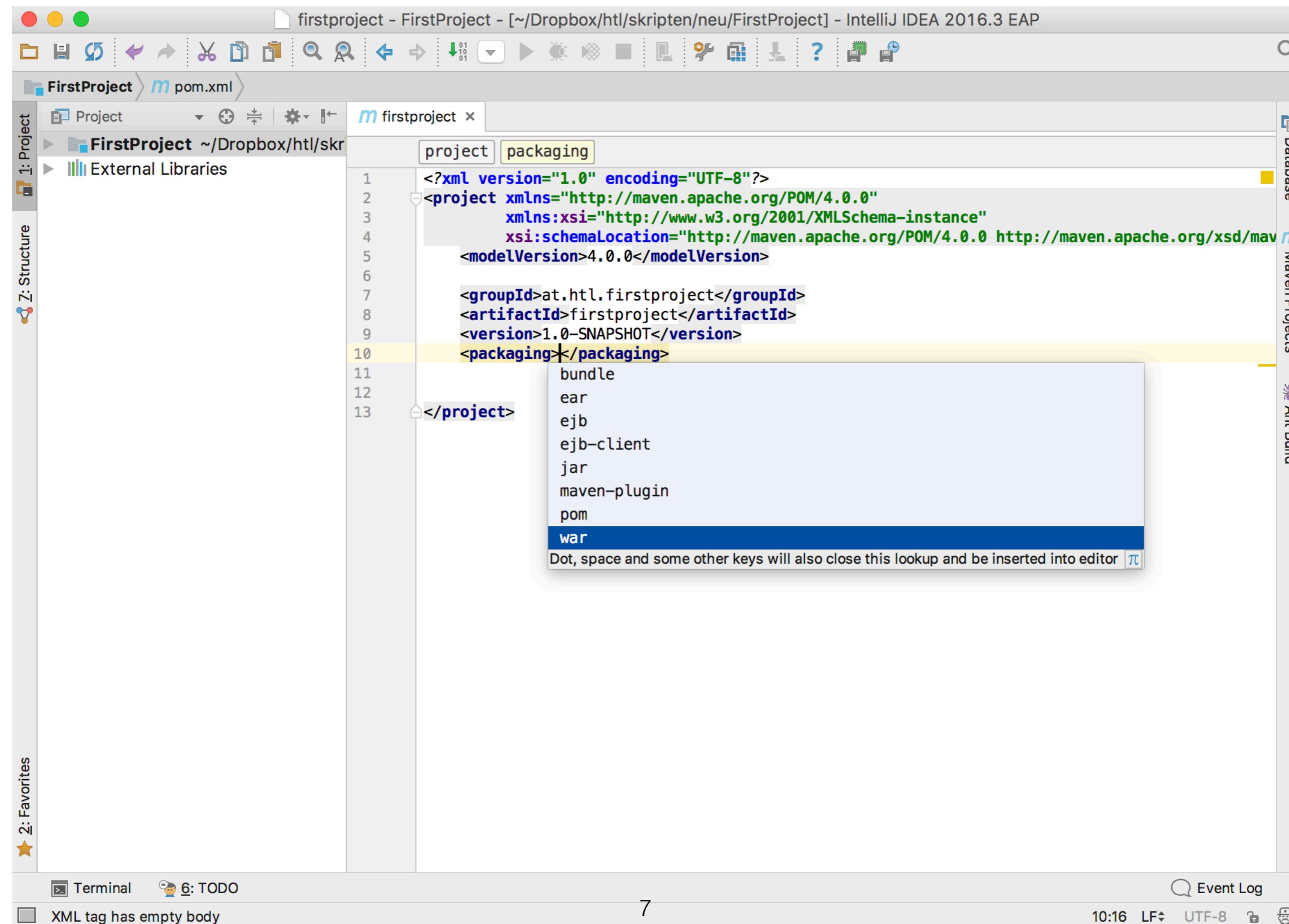


für JavaEE

web archive



wir verwenden  
nur .war



firstproject - FirstProject - [~/Dropbox/htl/skripten/neu/FirstProject] - IntelliJ IDEA 2016.3 EAP

Project FirstProject pom.xml

1: Project FirstProject ~/Dropbox/htl/skr External Libraries

2: Structure

3: pom.xml firstproject

project dependencies dependency artifactId

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/mav...
<modelVersion>4.0.0</modelVersion>

<groupId>at.htl.firstproject</groupId>
<artifactId>firstproject</artifactId>
<version>1.0-SNAPSHOT</version>
<packaging>war</packaging>

<dependencies>
    <dependency>
        <groupId></groupId>
        <artifactId>javaee</artifactId>
    </dependency>
</dependencies>
</project>
```

15 javaee  
javaee-web-api  
javaee-api  
javaee-api-libs  
javaee-api-main  
javaee-api-parent  
javaee-bce-archetype  
javaee-builder-support  
javaee-descriptors  
javaee-descriptors-api  
javaee\_descriptors\_parent

Dot, space and some other keys will also close this lookup and be inserted into editor

```
<dependency>
    <groupId>jakarta.platform</groupId>
    <artifactId>jakarta.jakartae-api</artifactId>
    <version>8.0.0</version>
    <scope>provided</scope>
</dependency>
```

Event Log 15:31 LF UTF-8

Maven gibt die Verzeichnisstruktur vor. Auch werden die benötigten Libraries automatisch heruntergeladen. Die JDK Version wird vorgegeben. Und vieles mehr...

<https://maven.apache.org/guides/introduction/introduction-to-the-standard-directory-layout.html>

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven_4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>at.htl.firstproject</groupId>
    <artifactId>firstproject</artifactId>
    <version>1.0-SNAPSHOT</version>
    <packaging>war</packaging>

    <dependencies>
        <dependency>
            <groupId>javax</groupId>
            <artifactId>javaee-web-api</artifactId>
            <version>7.0</version>
            <scope>*
```

```

<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://i
<modelVersion>4.0.0</modelVersion>

<groupId>at.htl</groupId>
<artifactId>firstproject</artifactId>
<version>1.0-SNAPSHOT</version>
<packaging>war</packaging>

<dependencies>
    <dependency>
        <groupId>jakarta.platform</groupId>
        <artifactId>jakarta.jakartaee-api</artifactId>
        <version>8.0.0</version>
        <scope>provided</scope>
    </dependency>
</dependencies>

<properties>
    <maven.compiler.source>11</maven.compiler.source>
    <maven.compiler.target>11</maven.compiler.target>
</properties>
</project>

```

Dies ist eine minimale pom.xml  
für Webapplikationen

# Eine erste Java-Klasse

- Zunächst wird ein Singleton erstellt, welches nach dem Deployment ausgeführt wird (@Startup)

```
import javax.annotation.PostConstruct;
import javax.ejb.Singleton;
import javax.ejb.Startup;

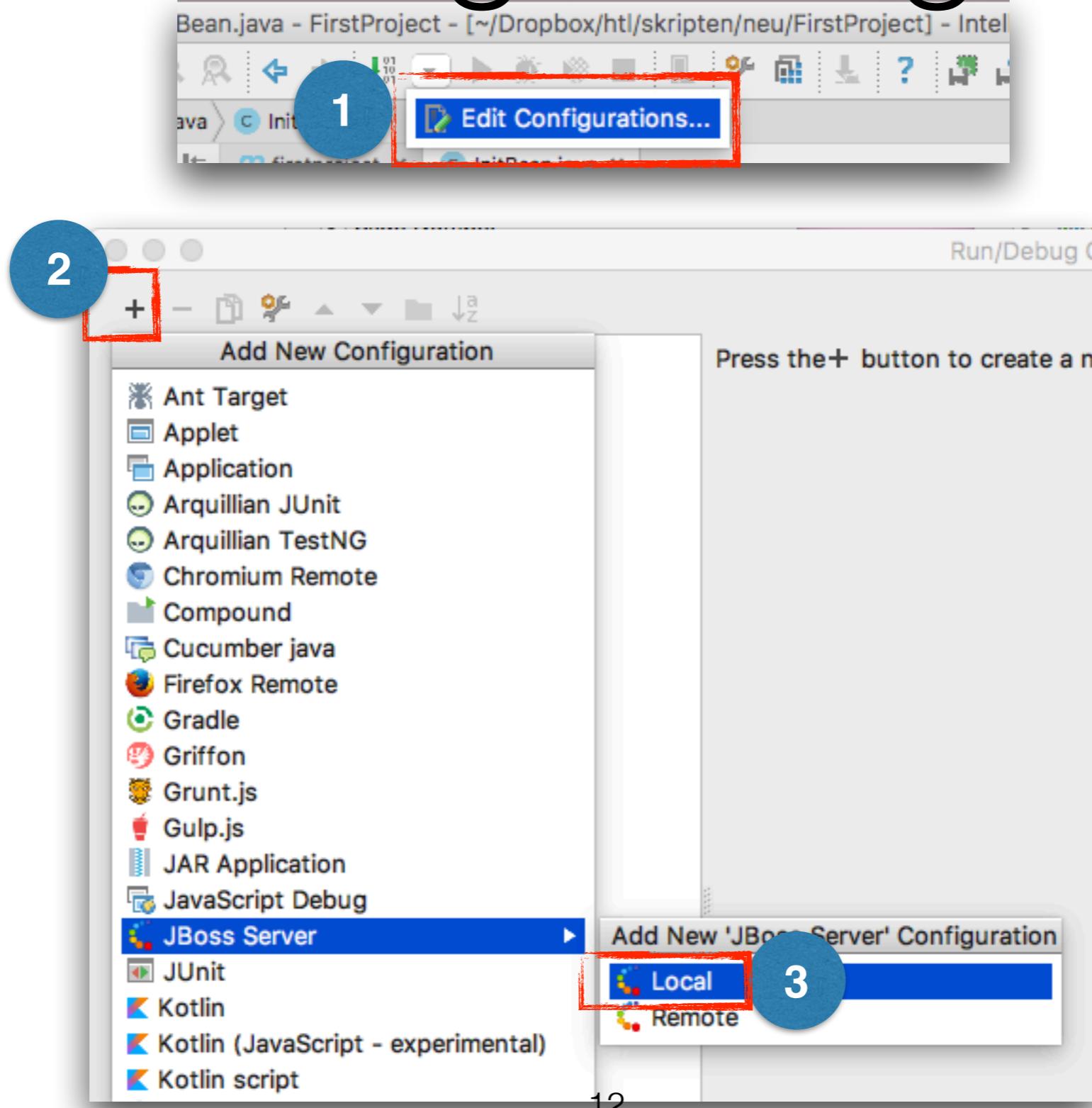
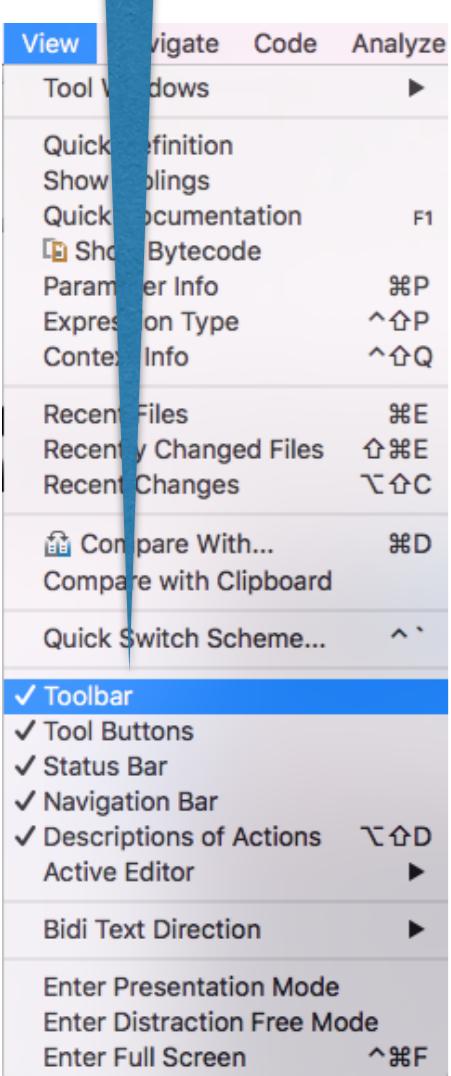
@Singleton
@Startup
public class InitBean {

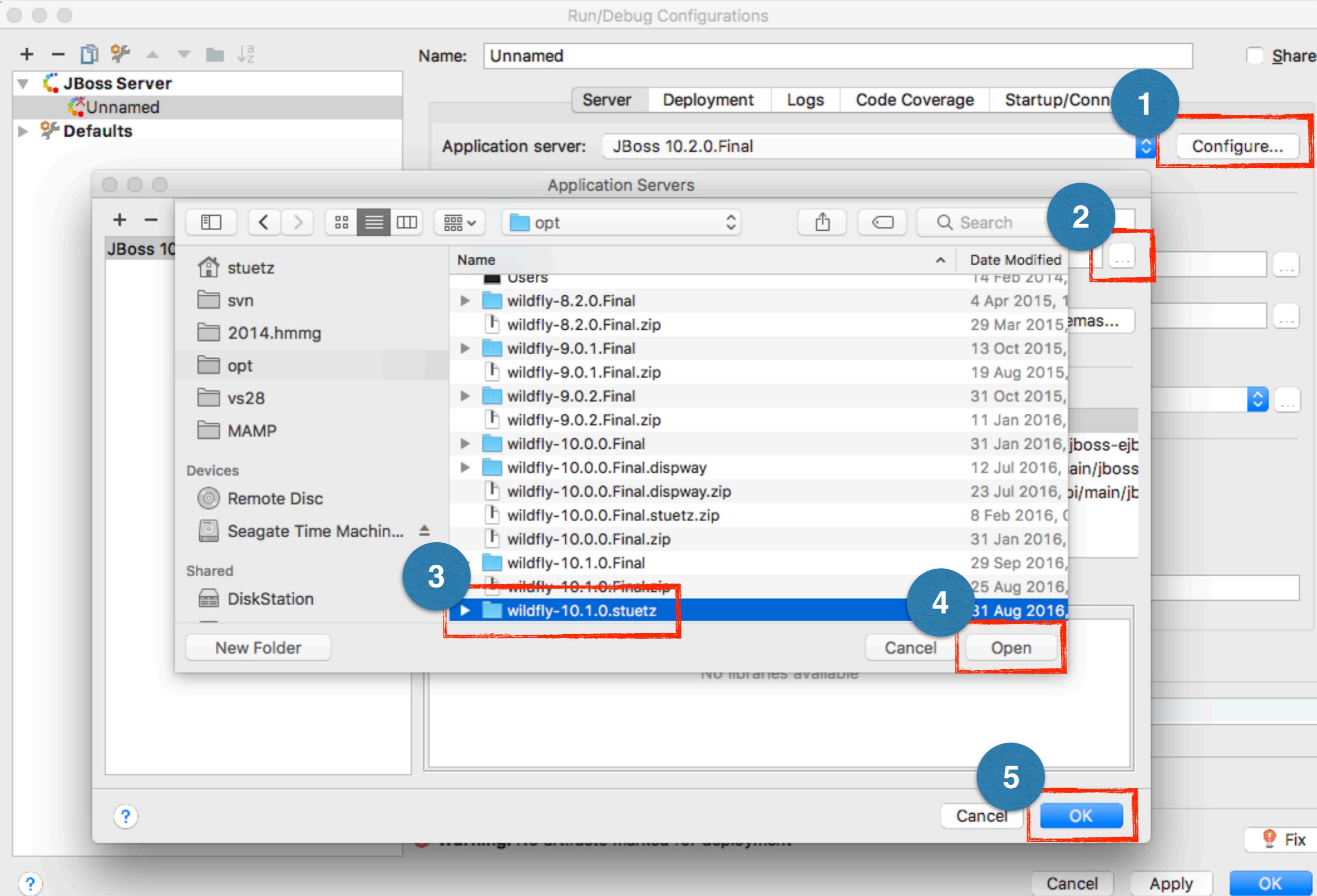
    @PostConstruct
    private void init(){
        System.out.println("*** it works ***");
    }

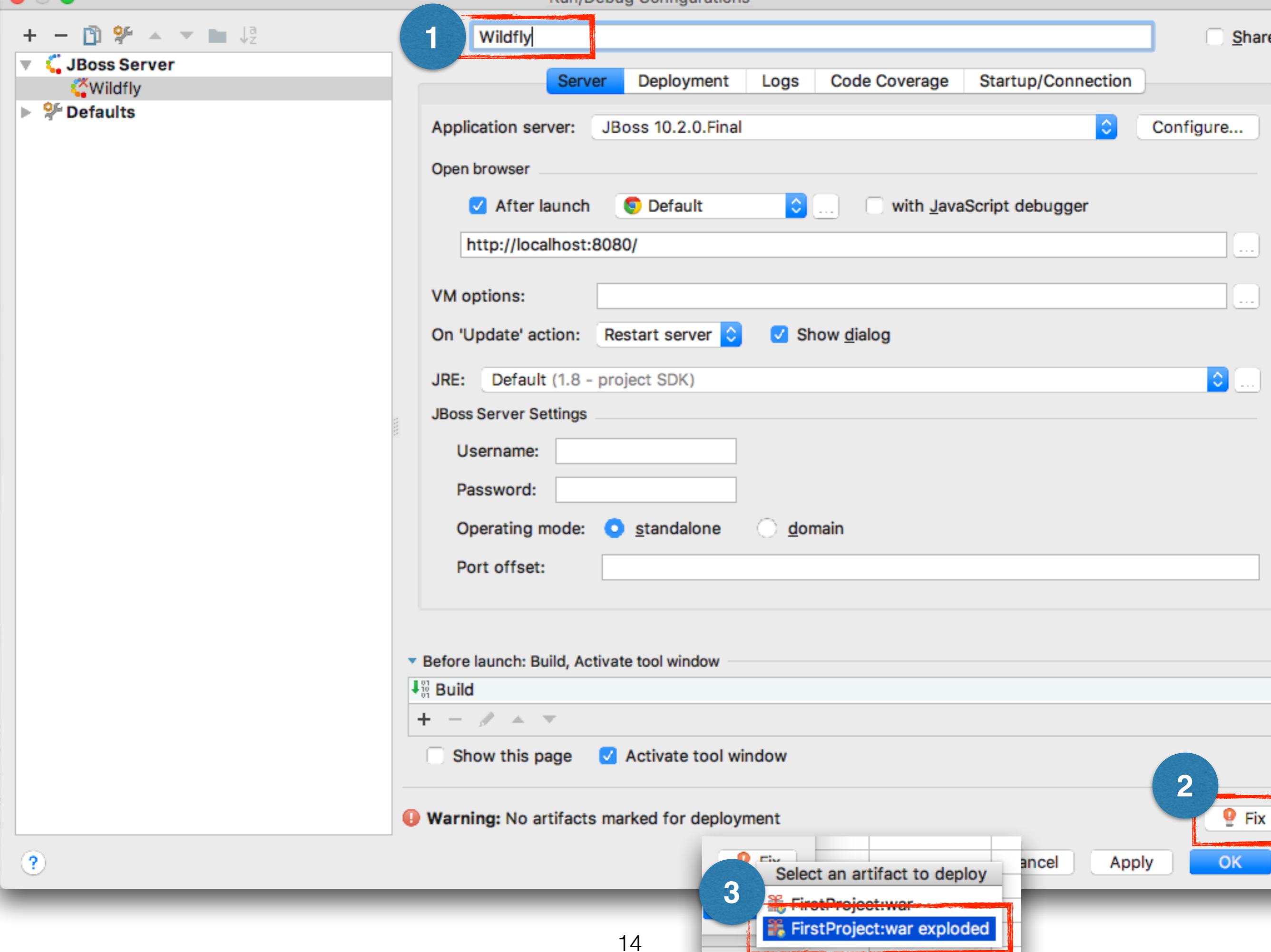
}
```

# Run/Debug Konfiguration

Aktivieren  
der  
Toolbar







## Run/Debug Configurations

Name: Wildfly

Share

JBoss Server

Wildfly

Defaults

Server Deployment Logs Code Coverage Startup/Connection

Deploy at the server startup

FirstProject:war exploded

+ - ▲ ▼ ↗

▼ Before launch: Build, Build Artifacts, Activate tool window

Build

+ - ↗ ↘ ▲ ▼

Show this page  Activate tool window

Cancel Apply OK

+ - ⌂ ⌂ ⌂ ⌂ ⌂ ⌂

► GlassFish Server  
▼ JBoss Server  
Wildfly  
► Defaults

Name: Wildfly

Server Deployment Logs Code Coverage Startup/Connection

Application server: JBoss 10.2.0.Final Configure...

Open browser:  After launch Default  with JavaScript debugger

http://localhost:8080/first/

VM options:

On 'Update' action:   Show dialog

On frame deactivation:

1

JRE: Default (1.8 - pro)

JBoss Server Settings

Username:

Password:

Operating mode:  standalone  domain

Port offset:

► Before launch: Build, Build Artifacts, Activate tool window

2

Cancel Apply OK

