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GUIDELINE

HOW TO CONFIG AND RUN WILDFLY ON YOUR INTELLIJ AND LOCAL MACHINE

Author: VAMOS Team Date: January 15, 2024

I. Clone project:

- Create a folder where you want to put the project
- Pull the project to folder

II. Config Wildfly:

1. Download the Wildfly version 26.1.3 and extract it (https://www.wildfly.org/downloads/)



- 2. Create a new Wildfly user:
 - 1. Go to "wildfly-26.1.3.Final/bin" and run "add-user.bat" file if your OS is Windows



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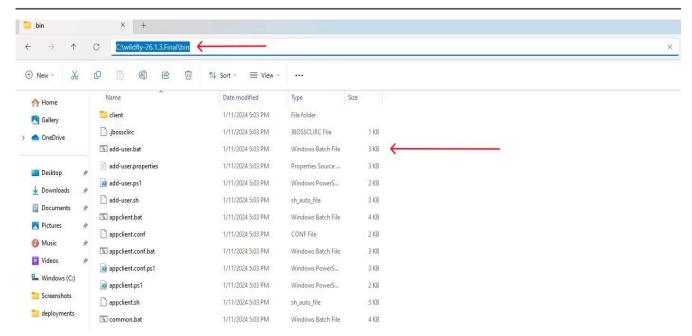
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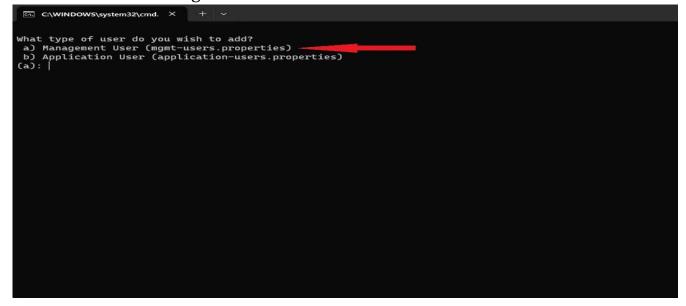
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2. After your run the file, the terminal will show up and you press "a" to add "Management USER".



3. After that, you should be able to create your username and password.



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```
What type of user do you wish to add?

a) Management User (mgmt-users.properties)
b) Application User (application-users.properties)
(a): a
Enter the details of the new user to add.
Using realm 'ManagementRealm' as discovered from the existing property files.
 Password recommendations are listed below. To modify these restrictions edit the add-user.properties configuration file. - The password should be
 different from the username
 - The password should not be one of the following restricted values {root, admin, administrator}
- The password should contain at least 8 characters, 1 alphabetic character(s), 1 digit(s), 1 non-alphanumeric symbol(s)
Password
What groups do you want this user to belong to? (Please enter a comma separated list, or leave blank for none)[ ]:
About to add user 'vdmhuan' for realm 'ManagementRealm'
About to add user 'vdmhuan' for realm 'ManagementRealm'
Is this correct yes/no? yes
Added user 'vdmhuan' to file 'C:\wildfly-26.1.3.Final\standalone\configuration\mgmt-users.properties'
Added user 'vdmhuan' to file 'C:\wildfly-26.1.3.Final\domain\configuration\mgmt-users.properties'
Added user 'vdmhuan' with groups to file 'C:\wildfly-26.1.3.Final\standalone\configuration\mgmt-groups.properties'
Added user 'vdmhuan' with groups to file 'C:\wildfly-26.1.3.Final\domain\configuration\mgmt-groups.properties'
Is this new user going to be used for one AS process to connect to another AS process?
e.g. for a slave host controller connecting to the master or for a Remoting connection for server to server Jakarta Enterprise Beans calls.
 yes/no? yes
 To represent the user add the following to the server-identities definition <secret value="TWluaGh1YW4xOTk5QA==" />
Press any key to continue .
```

- 3. Run Wildfly management console:
 - 1. Go to "wildfly-26.1.3.Final/bin" and run the "standalone.bat" file if your OS is Windows



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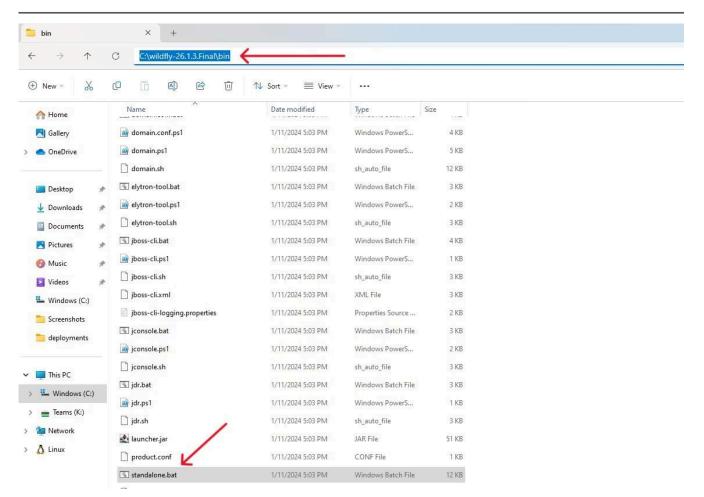
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2. If there aren't any errors, the terminal should be like this



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```
class org. N2. Driver (version 1.4)

11.12:55,107 INFO [org.]bbss.as.connector.deployers.jdbc] (MSC service thread 1-7) WFLYYAM0003: Started Driver service with driver-name = h2

11.12:55,107 INFO [org.]bbss.as.connector.deployers.jdbc] (MSC service thread 1-7) WFLYYAM0003: Starting Naming Service

11.12:55,107 INFO [org.]bbss.as.maxil.extension] (MSC service thread 1-2) WFLYYAM0003: Starting Naming Service

11.12:55,107 INFO [org.]bbss.as.maxil.extension] (MSC service thread 1-2) WFLYYAM0003: Starting Naming Service

11.12:55,107 INFO [org.]bbss.as.maxil.extension] (MSC service thread 1-2) WFLYELY00023: Bound maxil session [java:jbbss/maxil/Default]

11.12:55,107 WARN [org.sildfly.extension.elytron] (MSC service thread 1-5) JMSS Remoting version 5.0.25.Final

11.12:55,248 WARN [org.sildfly.extension.elytron] (MSC service thread 1-8) WFLYELY00023: KeyStore file 'C:\wildfly-26.1.3.Final\standalone\configuration\application.keystorer ont found, it will be auto generated on first use with a self-signed certificate for host localhost

11.12:55,248 INFO [org.sildfly.extension.undertom] (ServerService Thread Pool - 75) WFLYU100314: Creating file handler for path 'C:\wildfly-26.1

11.12:55,295 INFO [org.jbbss.as.ejb3] (MSC service thread 1-8) WFLYEL300481: Strict pool slsb-strict-max-pool is using a max instance size of 128 (per class), which is derived from the number of (PUS on this host.

11.12:55,344 INFO [org.jbbss.as.ejb3] (MSC service thread 1-4) WFLYEL300482: Strict pool mdb-strict-max-pool is using a max instance size of 32 (per class), which is derived from the number of (PUS on this host.

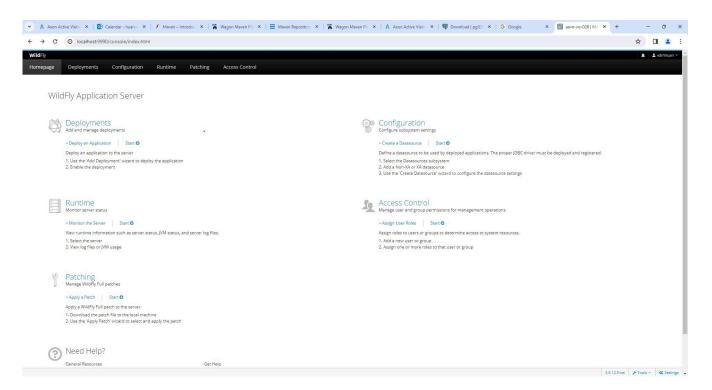
11.12:55,344 INFO [org.sildfly.extension.undertom] (MSC service thread 1-6) WFLYU100182: Started server default-server.

11.12:55,354 INFO [org.jbbss.as.ejb3] (MSC service thread 1-8) WFLYU100183: Host default-four wittp listener default istening on 127.0.0.1:844

11.12:55,354 INFO [org.jbbss.as.epb3] (MSC service thread 1-1) WFLYU100183: Host default place of fault listening on 127.0.0.1:844

11.12:55,733 INFO [org.jbbss
```

3. Go to URL "http://localhost:9990" and enter your username and password, you should see this page:





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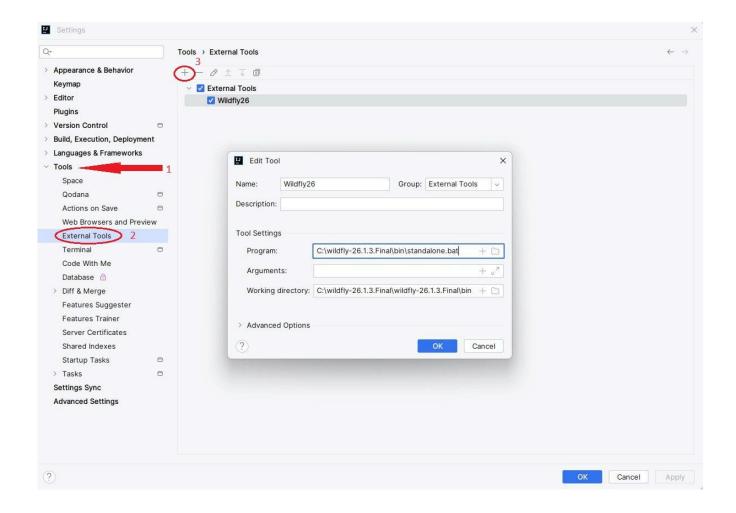
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III. Configuring Wildfly in IntelliJ (Community Edition):

- Open Java ee project in IntelliJ → Press "Ctrl + Alt + S" to open "Settings" Windows
- 2. In the "Settings" windows, choose "Tools" \rightarrow "External Tools" \rightarrow "+"
 - **2.1.** In the "**Edit Tool**" windows:
 - **2.1.1. Name bracket**: Type in the tool's name
 - **2.1.2. Program**: Set the path to the "**standalone.bat**" file in the Wildfly folder
 - **2.1.3. Working directory:** Set the path to Wildfy 's bin folder





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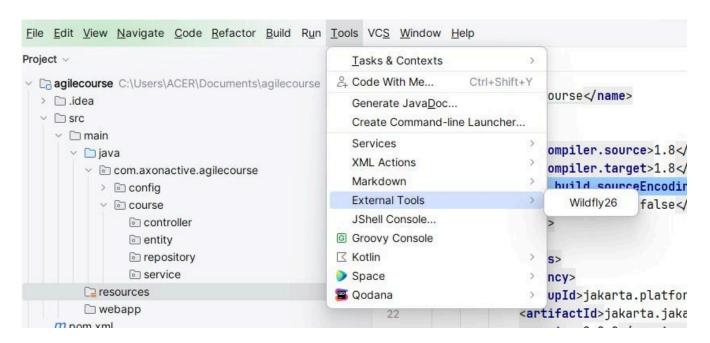
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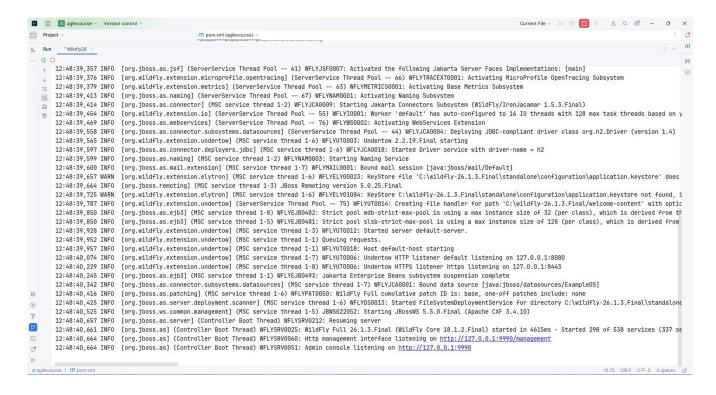
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- 3. Finally, press "**OK**". In the "**Setting**s" windows press "**Apply**"
- 4. After that, you should see this in your IDE:



5. Recheck if WildFly is Running





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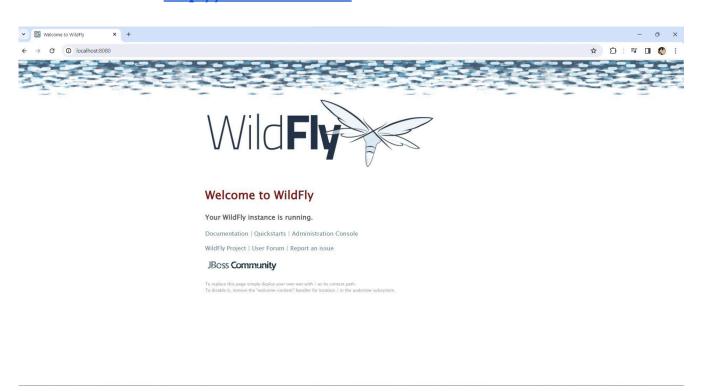
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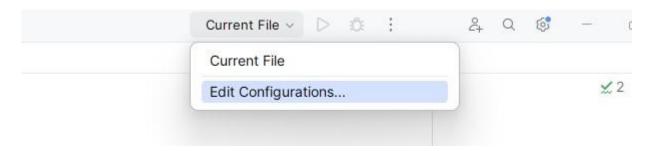
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6. Go to URL: "http://localhost:8080"



IV. Config IntelliJ to compile and deploy the AgileCourse project automatically:

1. On the top right of IntelliJ, you will see the "**Current File**" bracket. Press it then press "**Edit Configurations...**" like in picture



2. In "Run/Debug Configuration" " press the "+" icon then choose "Maven"



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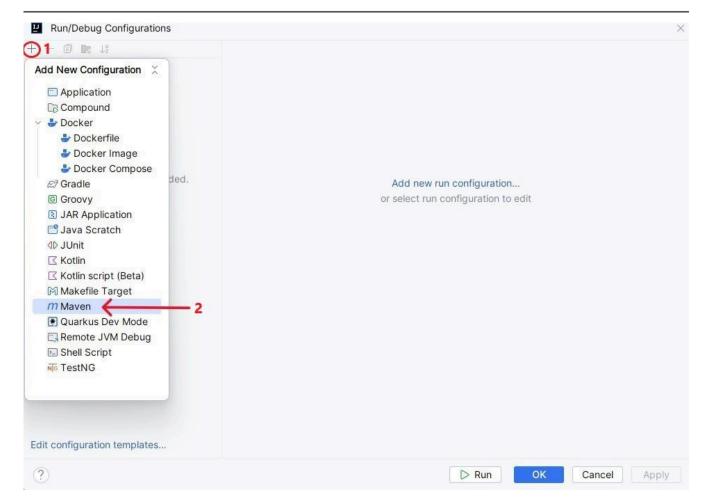
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- 3. Start config Maven:
 - Set the name for the run/debug 3.1.
 - In the "**Run**" bracket type in this command line: 3.2.

clean package

```
org.codehaus.mojo:wagon-maven-plugin:2.0.2:upload-single
-Dwagon.fromFile=target/agilecourse.war
-Dwagon.url=file://C:/wildfly-26.1.3.Final/standalone/deplo
yments
```

Turn off "inherit from settings" and select the Maven version on your 3.3. local machine



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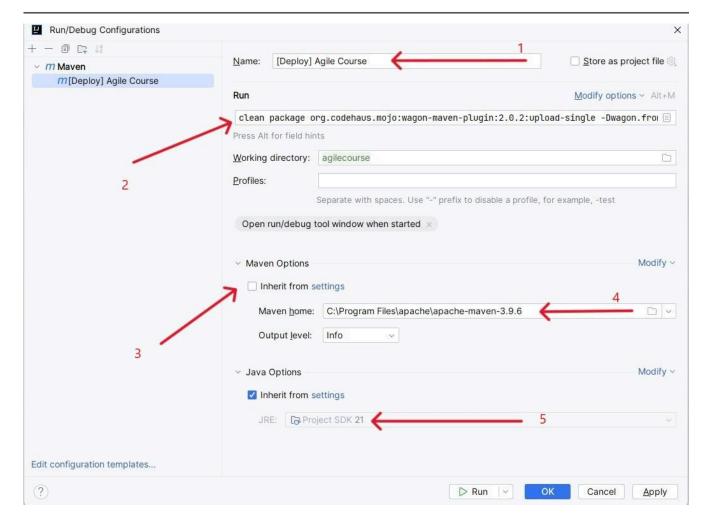
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*Note:

- "agilecourse.war": This is the name of this application war file.
- "C:/wildfly-26.1.3.Final/standalone/deployments": This is our WildFly deployments path. Please change it based on its location.
- Your JRE should display 17 if you are using JDK 17
 - When you are done with all steps, simply press "Apply" 3.4.
- Check if it's running correctly 4.



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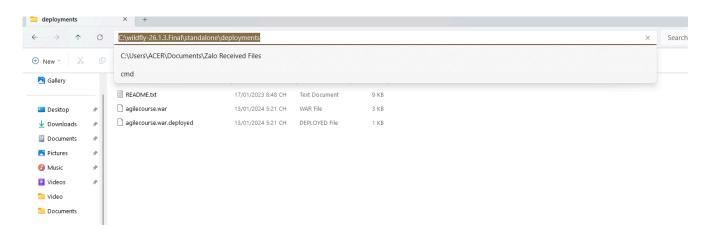
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- Check if the application is deployed: 5.
 - Go to "wildfly-26.1.3.Final/standalone/deployments" 5.1.



Go to URL: "http://localhost:9990" then go to "Deployments", you 5.2. should see your war file is deployed



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V. References:

- https://www.mojohaus.org/wagon-maven-plugin
- https://www.mojohaus.org/wagon-maven-plugin/upload-single-mojo.html

-