# Java Servlets 3.0

Lesson 02: Working with WildFly 8.x



#### **Lesson Objectives**

Configuring the Server with Eclipse Luna (4.4.x) Understanding the Directory Structure Deploying the Web Application on Wildfly



## 2.1: Configuring the Server with Eclipse Luna (4.4.x) Steps for installing WildFly



#### Steps for installing WildFly

- Require JDK 7 or Higher
- Set the JAVA\_HOME environment variable to the location of JDK 7 or higher or this could be done by setting the path variable.

Identify the drive/location on the system for installing WildFly

## 2.1: Configuring the Server with Eclipse Luna (4.4.x) WildFly installable



#### Download WildFly

- Latest version can be downloaded from <a href="http://wildfly.org/downloads">http://wildfly.org/downloads</a>
- The zip version can be downloaded from here

Basic installation: Extracting the contents of the archive to an appropriate location identified

#### Follow below steps for Wildfly Eclipse Plugin:

- Select "Help->Eclipse Marketplace..." from the Eclipse menu bar. Choose "Eclipse Marketplace" if prompted for a marketplace catalog.
- Search for "JBoss Tools" and install JBoss Tools (Luna), version 4.2.x.
- Wait until "Calculating requirements..." has finished and make sure that all features are checked, then confirm.
- Accept the license agreements and click "Finish".

## 2.2: Understanding the Directory Structure WildFly Directory Structure

#### WildFly server directory structure

| Name                | Date modified     | Туре                | Size   |
|---------------------|-------------------|---------------------|--------|
| 📗 .installation     | 5/30/2014 9:54 PM | File folder         |        |
| 📗 appclient         | 2/24/2015 4:26 PM | File folder         |        |
| 📗 bin               | 2/24/2015 4:26 PM | File folder         |        |
| 📗 docs              | 2/24/2015 4:26 PM | File folder         |        |
| 📗 domain            | 2/24/2015 4:26 PM | File folder         |        |
| 🗼 modules           | 2/24/2015 4:26 PM | File folder         |        |
| 🖟 standalone        | 2/24/2015 4:28 PM | File folder         |        |
| welcome-content     | 2/24/2015 4:26 PM | File folder         |        |
| copyright.txt       | 5/30/2014 9:54 PM | TXT File            | 3 KB   |
| 📕 jboss-modules.jar | 5/30/2014 9:54 PM | Executable Jar File | 347 KB |
| LICENSE.txt         | 5/30/2014 9:54 PM | TXT File            | 26 KB  |
| README.txt          | 5/30/2014 9:54 PM | TXT File            | 3 KB   |

## 2.2: Understanding the Directory Structure WildFly Directory Structure



Standalone Directory Structure

In "standalone" mode each WildFly 8 server instance is an independent process. The configuration files, deployment content and writable areas used by the single standalone server run from a WildFly installation.

## 2.2: Understanding the Directory Structure WildFly Configurations



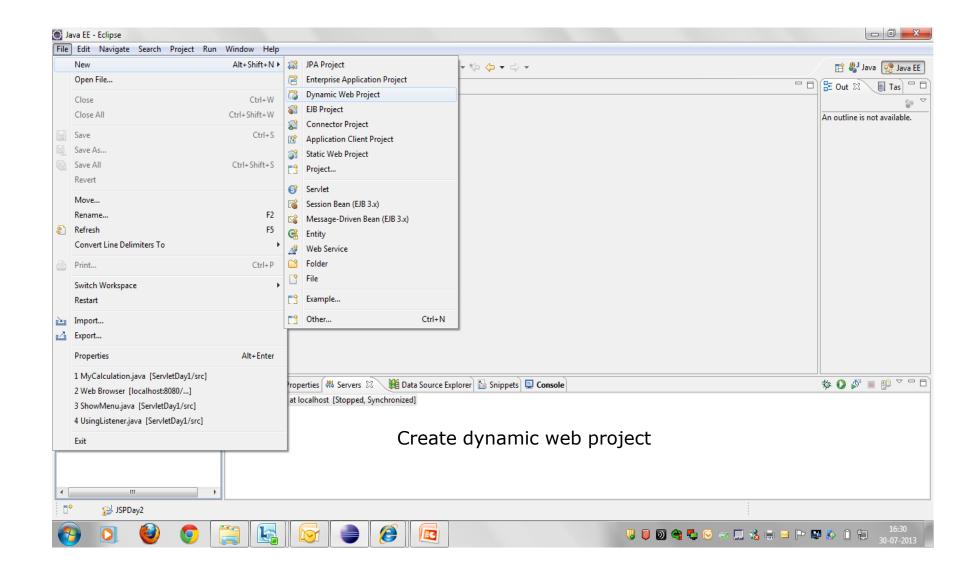
#### Standalone Server Configurations

- standalone.xml (default)
  - Java Enterprise Edition 7 web profile certified configuration with the required technologies
- standalone-ha.xml
  - Java Enterprise Edition 7 web profile certified configuration with high availability
- standalone-full.xml
  - Java Enterprise Edition 7 full profile certified configuration including all the required EE 7 technologies
- standalone-full-ha.xml
  - Java Enterprise Edition 7 full profile certified configuration with high availability

### 2.3: Deploying the Web Application on Wildfly



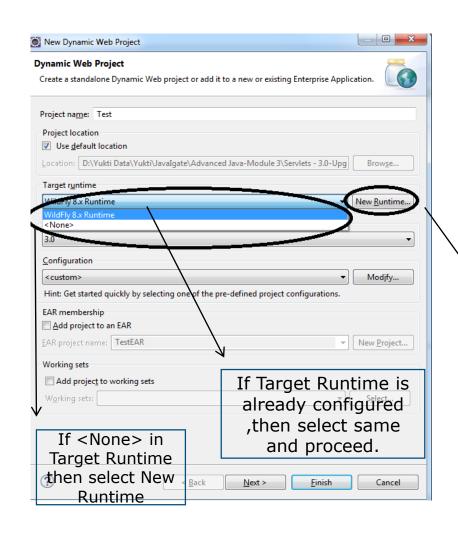
## Using WildFly in Eclipse environment

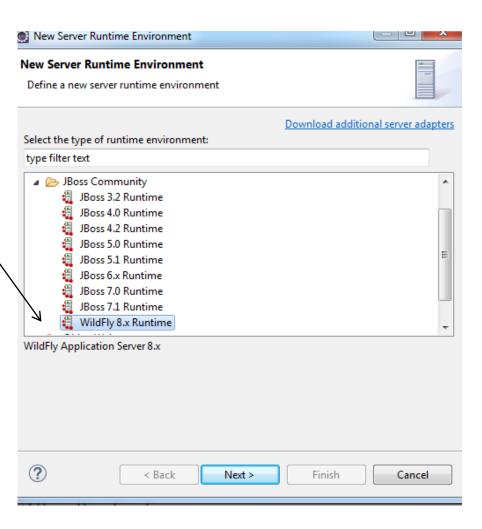


#### 2.3: Deploying the Web Application on Wildfly

## Using WildFly in Eclipse environment

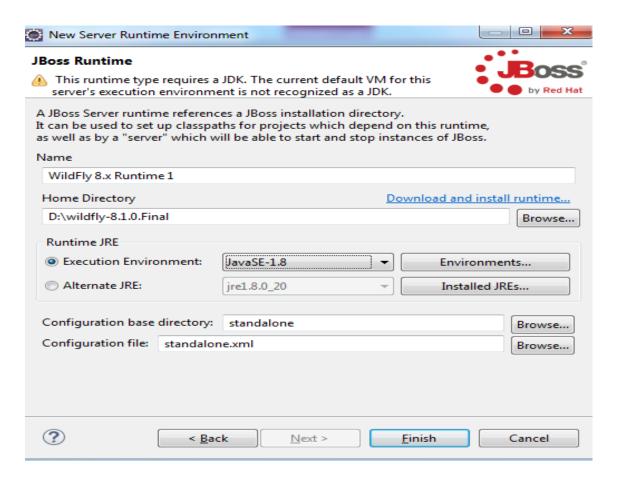






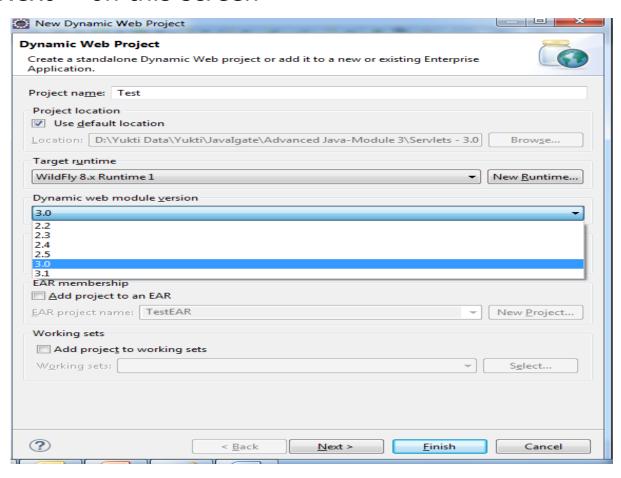


#### Select WildFly folder

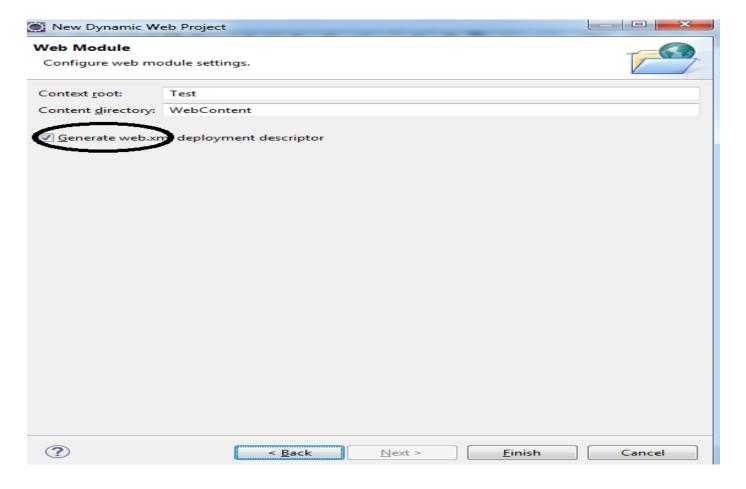




#### Click Next > Next > on this screen



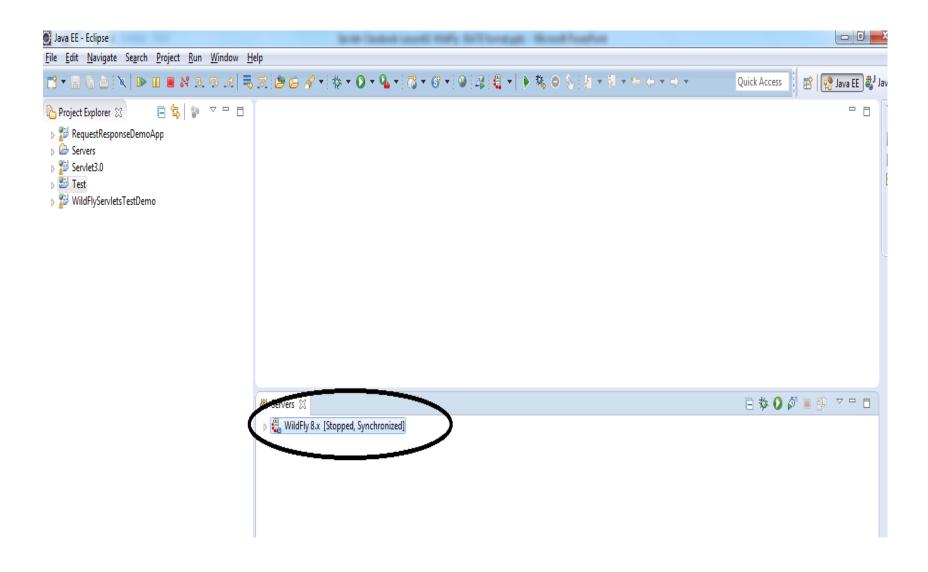
#### Click on check box for web.xml and then on Finish



#### 2.3: Deploying the Web Application on Wildfly

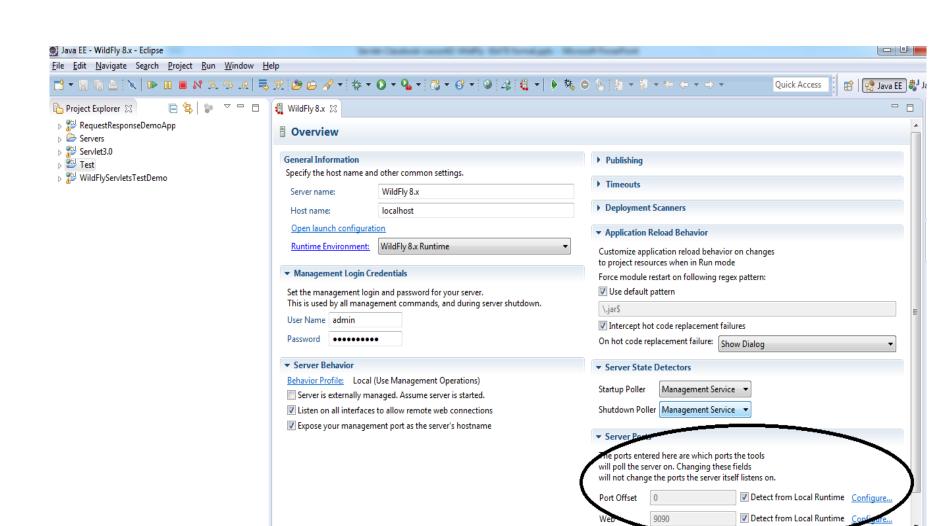
#### Using WildFly in Eclipse environment





Overview Deployment





## 2.3: Deploying the Web Application on Wildfly WildFly - Home Page

Start the WildFly server

The home page of WildFly can be accessed by specifying the URL <a href="http://localhost:9090">http://localhost:9090</a>.

The home page can be seen



#### Summary



Installing WildFly Accessing the WildFly Homepage



#### **Review Questions**



Question 1: If an independent instance of WildFly required then which mode should be selected

- Option 1: Basic
- Option 2: Domain
- Option 3: Standalone
- Option 4: None of the above



- Option 1: data
- Option 2: configuration
- Option 3: log
- Option 4: conf

