

\$ WILDFLY_PATH -> Local do Servidor
ex.: C:\dev\Servers\wildfly-9.0.2.Final

\$ DOWNLOAD_POSTGRES_DRIVER -> Local do download do Driver de conexão

\$ DRIVER_FILE_NAME -> Nome do arquivo baixado

\$ IP_MAQUINA_IVAN -> 10.25.12.107

0 – Postgres

- Abrir o **pgAdmin III**, criar um **Database** chamado:
 - hackathon2

1 – Wildfly

- Download Wildfly 9:
 - <http://wildfly.org/downloads/>
 - Na lista de versões, procurar a versão **9.0.2 Final**

9.0.2.Final	2015-10-26	Java EE7 Full & Web Distribution	LGPL	130 MB	ZIP
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- Abrir .zip baixado
- Extrair a pasta **wildfly-9.0.2.Final** para o diretório **C:\dev\Servers**

OBS.: Caso o download não seja efetivo, o .zip está em uma past "Compartilhada" na rede, no host \$IP_MAQUINA_IVAN;

- Download driver de conexão com banco Postgres:
 - <https://jdbc.postgresql.org/download.html>
 - Procurar por JDBC4 Postgresql Driver, Version 9.4-1208

Current Version

This is the current version of the driver. Unless you have unusual requirements (running old applications or JVMs), this is the driver you should be using. It supports Postgresql 7.2 or newer and requires a 1.6 or newer JVM. It contains support for SSL and the javax.sql package. If you are using the 1.6 then you should use the JDBC4 version. If you are using 1.7 then you should use the JDBC41 version. If you are using 1.8 then you should use the JDBC42 version. If you are using a java version older than 1.6 then you will need to use a JDBC3 version of the driver, which will by necessity not be current



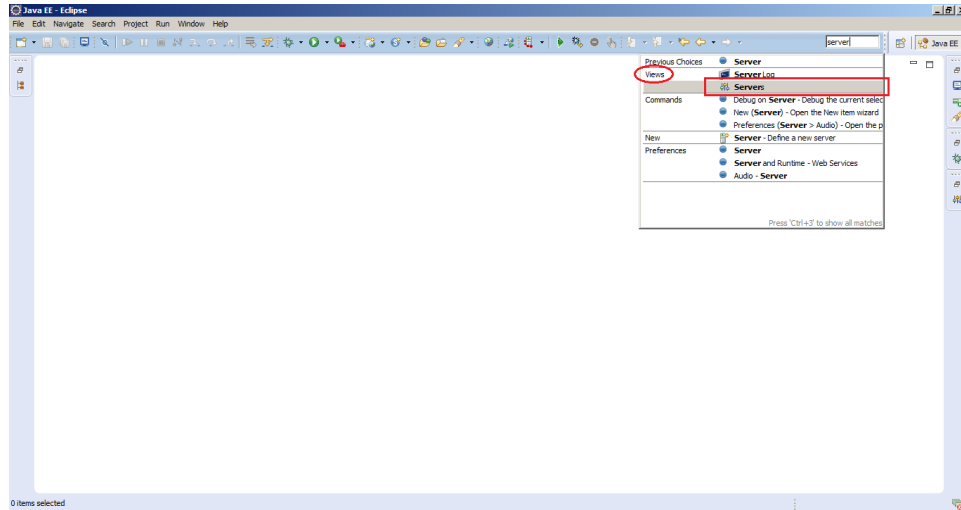
[JDBC4 Postgresql Driver, Version 9.4-1208](#)

[JDBC41 Postgresql Driver, Version 9.4-1208](#)

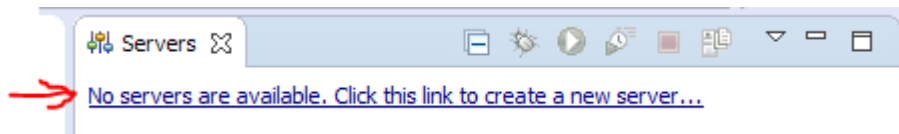
[JDBC42 Postgresql Driver, Version 9.4-1208](#)

[JDBC3 Postgresql Driver, Version 9.3-1103](#)

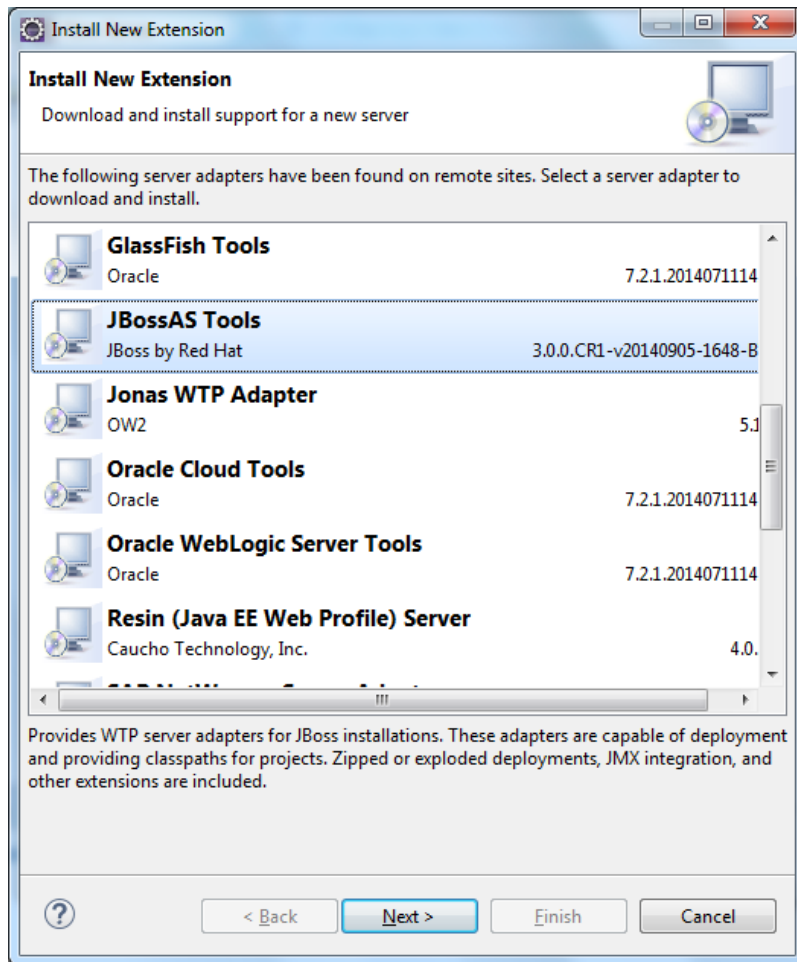
- Adicionar Servidor no Eclipse
 - Abrir a **view** de **Servers**
 - CTRL+3 e digitar: *server*



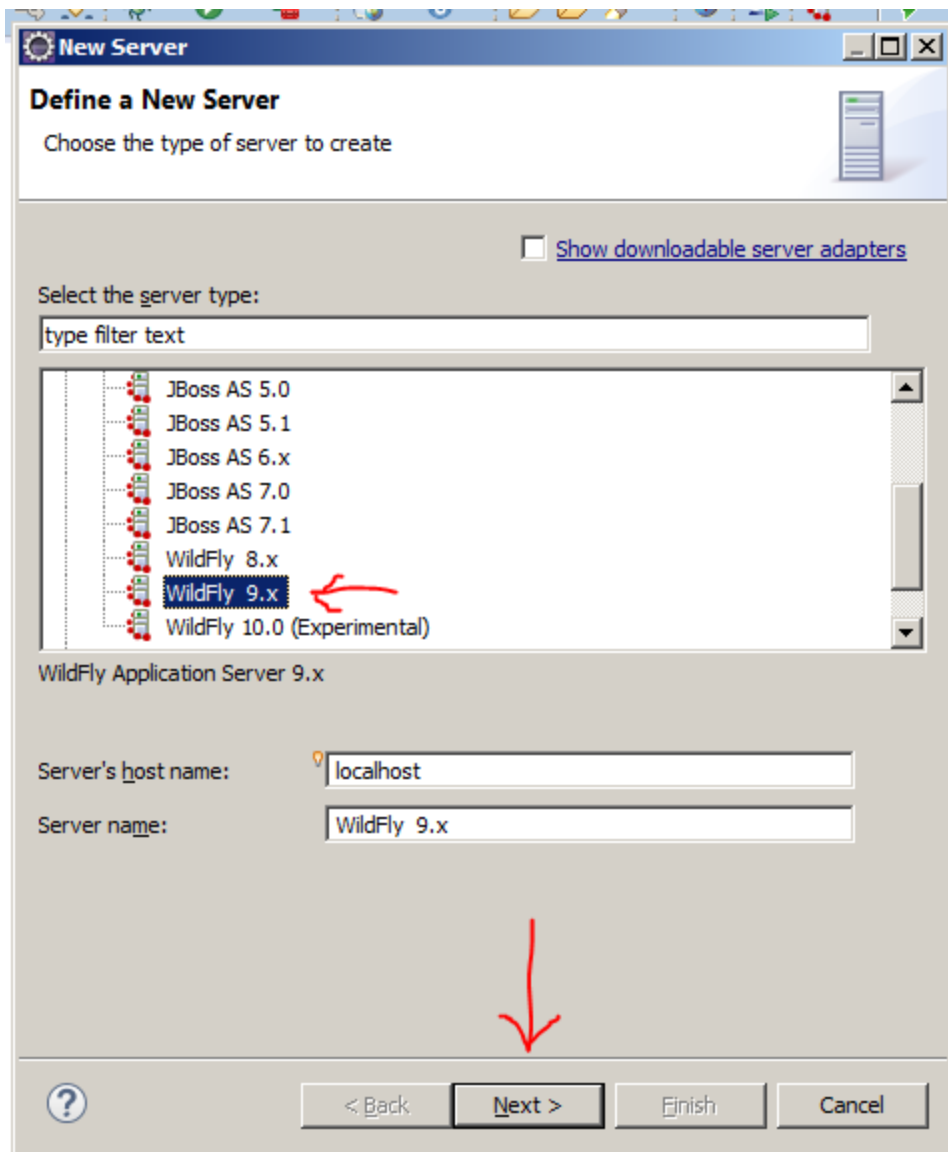
- Com a view ser *Servers* aberta, clicar em:



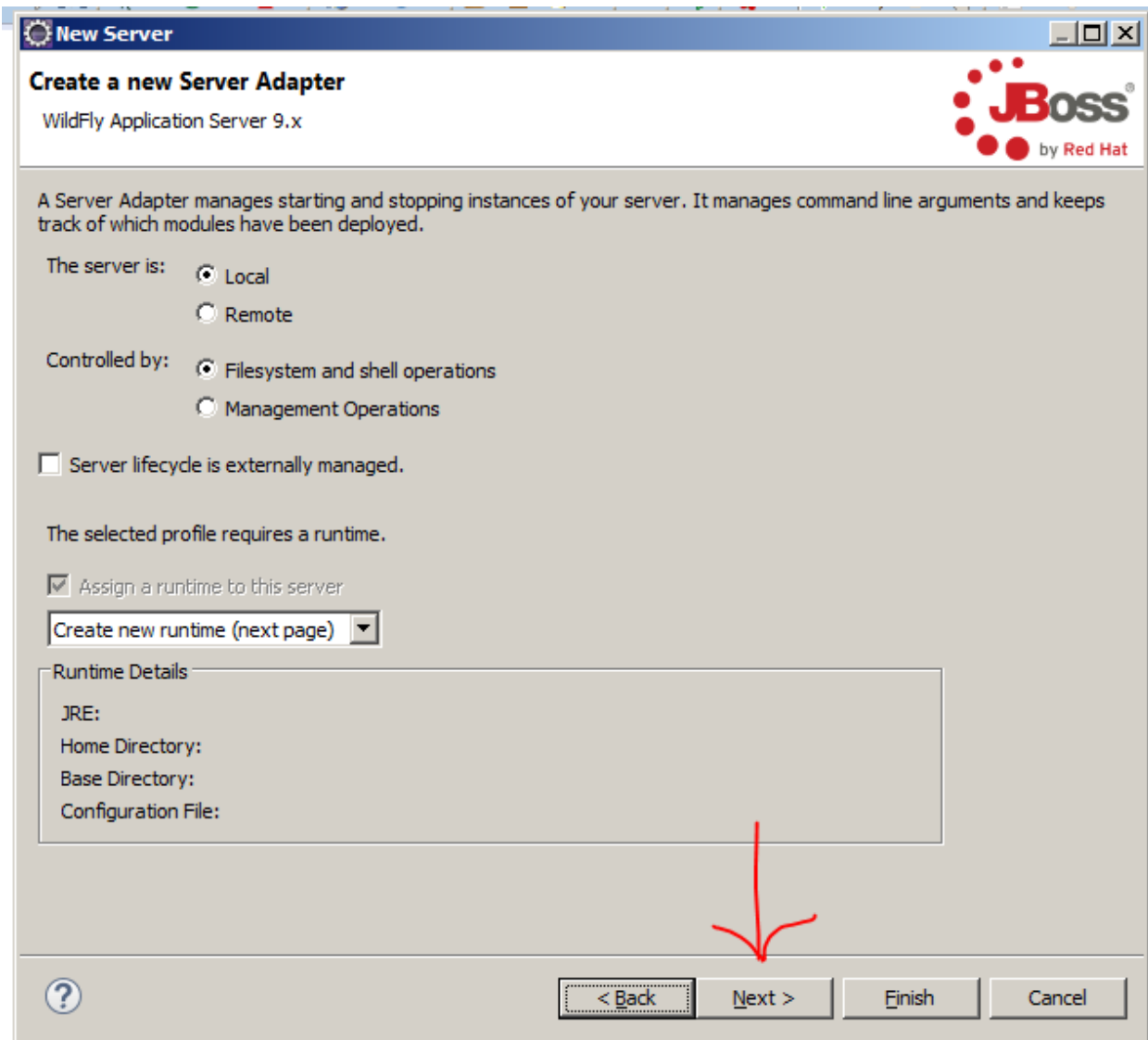
- Na nova janela que irá aparecer, clicar na opção **Download additional server adapters**. Em seguida, devemos procurar por **JBossAS Tools** e logo após prosseguir com a instalação e aceitar os termos da licença.



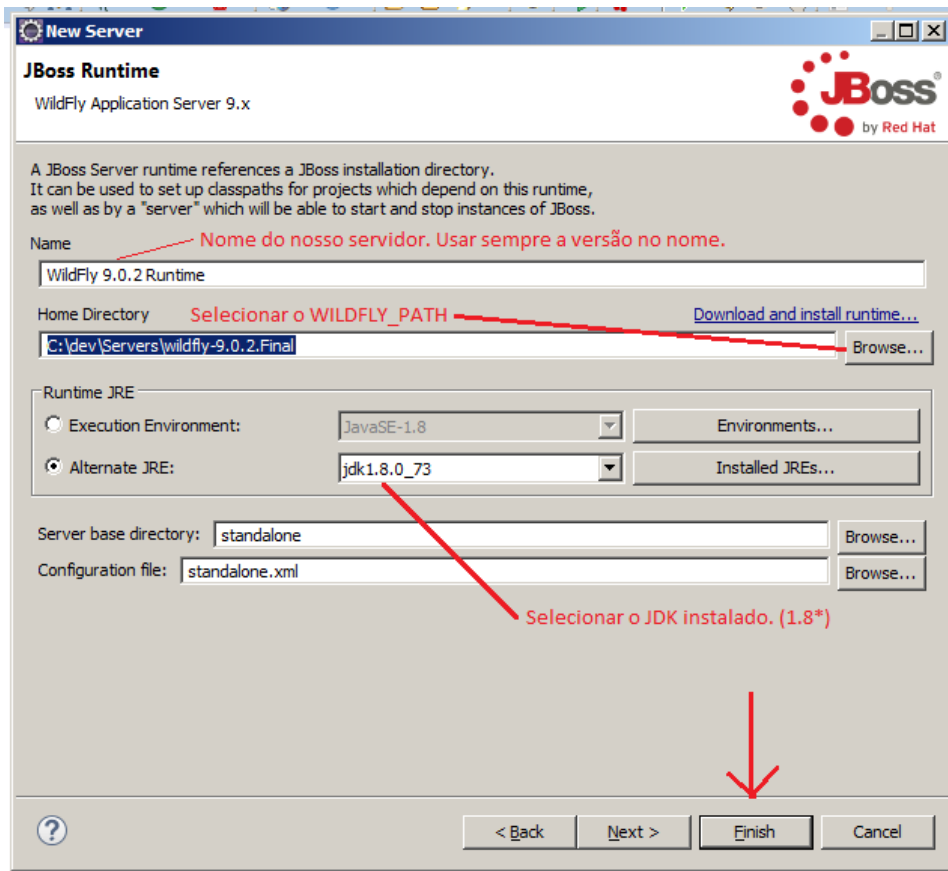
- Após a instalação do **JBossAS Tools** conseguiremos adicionar o **WildFly** no Eclipse clicando com o botão direito em qualquer lugar vazio na view **Servers** e, no menu suspenso que se abre, apontar o mouse sobre a opção **New** e clicar em **Server**.
- A versão do servidor que vamos usar é a 9.0.1 (vide etapa 1).



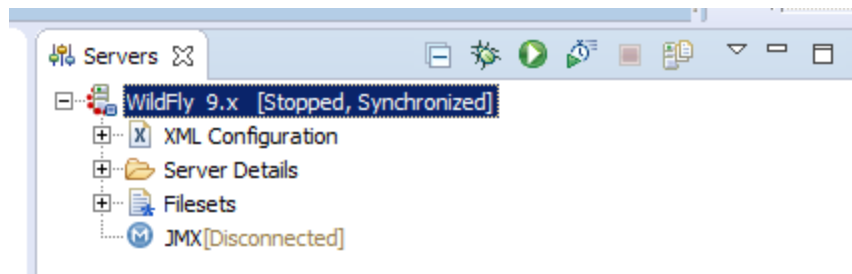
- **IMPORTANTE:** o **Server name** deve ser "**WildFly 9.2 Final Runtime**"
- Na próxima etapa do Wizard, apenas **Next**



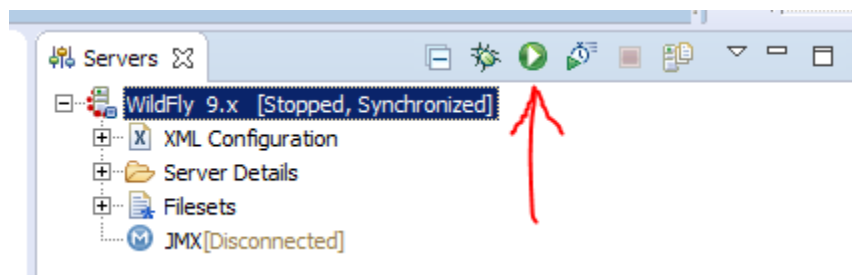
- Na próxima etapa, configuramos o "nome" do servidor, local e versão do Java
- Feito isto, basta finalizar (*Finish*)
- **IMPORTANTE:** O nome do Servidor deve ser: "**WildFly 9.2 Final Runtime**"



- Resultado esperado:



- Iniciar o servidor para garantir que a instalação foi bem sucedida
- Para iniciar, basta selecionar o Servidor e clicar no "play"



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- The screenshot shows the Java IDE's console window with the following content:
- ```

Java SE - Eclipse
File Edit Windows Search Project Run Window Help

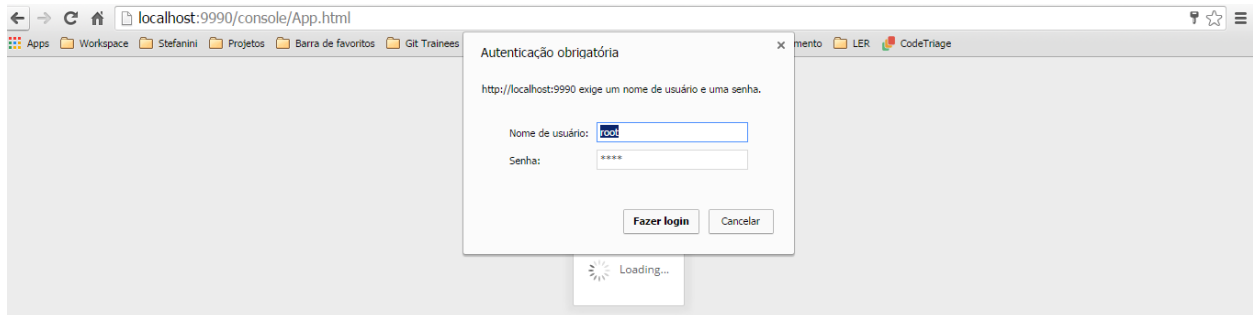
WildFly 9.0.2.Final (JBoss Application Server Standalone Configuration) C:\Program Files\Java\jdk1.8.0_73bin\java.exe (7 de abr de 2016 07:34:32)

[org.jboss.modules] (main) JBoss Modules version 1.4.3.Final
[org.jboss.modules] (main) JBoss PNC version 1.2.6.Final
[org.jboss.as] (main) JBoss AS version 7.1.0.Final
[org.jboss.as] (main) JBoss AS version 7.1.0.Final
[org.jboss.as.controller.management-deprecated] (ServerService Thread Pool -- 21) WFLVCTL0082: Attribute 'job-repository-type' in the resource at address '/subsystem=management:deployment=main' is deprecated. This resource is deprecated.
[org.jboss.as.server] (Controller Boot Thread) WFLVRSW0039: Creating http management using socket-binding (management-http)
[org.xnio] (NSC service thread 1-7) XNIO version 3.3.1.Final
[org.xnio.nio] (NSC service thread 1-7) XNIO NIO Implementation Version 3.3.1.Final
[org.jboss.as.clustering.infinispan] (ServerService Thread Pool -- 38) WFLVCLINF0001: Activating Infinispan subsystem.
[org.jboss.as.naming] (ServerService Thread Pool -- 46) WFLVNAW0001: Activating Naming Subsystem
[org.jboss.as.txn] (ServerService Thread Pool -- 54) WFLVXTN0001: Module Identifier property is set to the default value. Please make sure it is unique.
[org.jboss.as.webservices] (ServerService Thread Pool -- 56) WFLVWS0002: Activating WebServices Extension
[org.jboss.as.jsf] (ServerService Thread Pool -- 44) WFLVJSF0007: Activating the following JSF Implementations: [main]
[org.jboss.as.controller.management-deprecated] (ServerService Thread Pool -- 21) WFLVCTL0082: Attribute 'job-repository-type' in the resource at address '/subsystem=management:deployment=main' is deprecated. This resource is deprecated.
[org.jboss.as.naming] (NSC service thread 1-4) WFLVNAW0003: Starting Naming Service
[org.wildfly.extension.io] (ServerService Thread Pool -- 37) WFLVIO0001: Worker 'default' has auto-configured to 8 core threads with 64 task threads based on your system properties.
[org.jboss.as.connector.subsystems.datasources] (ServerService Thread Pool -- 33) WFLVCD0004: Deploying Tomcat driver class org.h2.Driver (version 1.3)
[org.jboss.as.connector.deployers.jdbc] (NSC service thread 1-2) WFLVJCD0018: Started driver service with driver-name = h2
[org.jboss.as.security] (NSC service thread 1-2) WFLVSEC0009: Starting JCA Subsystem (IronJacamar 1.2.5.Final)
[org.jboss.as.connector.extension] (NSC service thread 1-3) WFLVCON0011: Started module session [java:boss/mal/default]
[org.wildfly.extension Undertow] (NSC service thread 1-2) WFLVUT0003: Undertow 1.2.9.Final starting
[org.wildfly.extension Undertow] (ServerService Thread Pool -- 35) WFLVUT0001: undertow 1.2.9.Final starting
[org.jboss.remoting] (NSC service thread 1-7) WFLVREM0018: Remote host: default
[org.wildfly.extension Undertow] (ServerService Thread Pool -- 35) WFLVUT0001: Creating file handler for path C:\dev\Servers\wildfly-9.0.2.Final\welcome-content
[org.wildfly.extension Undertow] (NSC service thread 1-7) WFLVUT0003: Started server default-server
[org.wildfly.extension Undertow] (NSC service thread 1-3) WFLVUT0018: Host default-host: default
[org.wildfly.extension Undertow] (NSC service thread 1-8) WFLVUT0006: Undertow HTTP listener default-listening on localhost/127.0.0.1:8080
[org.jboss.as.connector.subsystems.datasources] (NSC service thread 1-7) WFLVCD0004: Deploying Tomcat driver class org.h2.Driver (version 1.3)
[org.jboss.wsp.com.management] (NSC service thread 1-7) WFLVWSP0025: Starting JBoss web services - Start Cxf Server 5.0.0.Final
[org.jboss.as.connector.subsystems.datasources] (NSC service thread 1-2) WFLVCD0001: Bound data source [java:boss/datasources/examples]
[org.jboss.as.connector.subsystems.datasources] (NSC service thread 1-2) WFLVCD0001: Bound data source [java:boss/datasources/examples]
[org.jboss.as] (Controller Boot Thread) WFLVRSW0039: Admin console listening on http://127.0.0.1:9999/management
[org.jboss.as] (Controller Boot Thread) WFLVRSW0039: Admin console listening on http://127.0.0.1:9999/management
[org.jboss.as] (Controller Boot Thread) WFLVRSW0039: WildFly Full 9.0.2.Final (WildFly Core 1.0.2.Final) started in 3962ms
[org.jboss.as] (Controller Boot Thread) WFLVRSW0039: Started 268 of 379 services (218 ser

```
- Indica que o servidor está rodando

- Adicionar um módulo - Conexão com Postgres (**Servidor deve estar Iniciado/Rodando**)
  - Navegar até o diretório `WILDFLY_PATH` pelo explorer do Windows
  - Entrar na pasta ***bin***
  - Executar o ***jboss-cli.bat***
  - To terminarl que irá abrir, digite ***connect*** e pressione ***Enter***
  - Digite o seguinte comando e pressione ***Enter***
    - *module add --name=org.postgres --resources=DOWNLOAD\_POSTGRES\_DRIVER/DRIVER\_FILE\_NAME --dependencies=javax.api,javax.transaction.api*
  - Em seguida, digite o próximo comando, e pressione ***Enter***
    - */subsystem=datasources/jdbc-driver=postgres:add(driver-name="postgres",driver-module-name="org.postgres",driver-class-name=org.postgresql.Driver)*
  - Resultado esperado:
    - ***{"outcome" => "success"}***
- Adicionar um usuário gerenciador do Servidor:
  - Navegar até o ***WILDFLY\_PATH***
  - Entrar na pasta ***bin***

- Executar o ***add-user.bat***
- No terminal que irá abrir (a cada etapa, pressionar Enter):
  - Digitar ***a***, (Management User)
  - ***Username: root***
  - ***y***
  - ***Password: root***
  - ***y***
  - ***Re-enter Password: root***
  - ***enter***
  - ***y***
  - ***y***
  - Pressione qualquer tecla para que o prompt seja fechado
- Criar um Data Source Postgres
  - Acessar a url: <http://localhost:9990/console>



- Informar o usuário e senha de gerenciamento
  - Root/root
- Na página que irá abrir, navegar por:
  - Menu: ***Configuration***
    - ***Subsystems > Datasources > Non-XA >***
  - Clicar no botão ***Add***



Home Deployments **Configuration** Runtime Access Control Patching

| Configuration     | Subsystem (28)    | Type   | Datasource |            |
|-------------------|-------------------|--------|------------|------------|
| Subsystems        | JCA               | Non-XA | ExampleDS  | <b>Add</b> |
| Interfaces        | Datasources       | XA     |            |            |
| Socket Binding    | Resource Adapters |        |            |            |
| Paths             | Mail              |        |            |            |
| System Properties | Transactions      |        |            |            |

### Non-XA Datasources

Manage Non-XA datasources, which are used for applications which do not use transactions, or applications which use transactions with a single database.

### Create Datasource

#### Choose Datasource

- ☐ Custom
- ☒ PostgreSQL Datasource
- ☐ MySQL Datasource
- ☐ Oracle Datasource
- ☐ Microsoft SQLServer Datasource
- ☐ IBM DB2 Datasource
- ☐ Sybase Datasource

Create Datasource

Step 1/3: Datasource Attributes

[Need Help?](#)

Name: HackathonDS

JNDI Name: java:/jdbc/HackathonDS

Cancel Next »

- No **Step 2/3: JDBC Driver:**
  - Click on **Detected Driver**, seleccionar **postgres**

Create Datasource

Step 2/3: JDBC Driver

Select one of the installed JDBC driver. Don't see your driver? Please make sure it's deployed as a module and properly registered.

Specify Driver

Detected Driver

| Name     |
|----------|
| postgres |
| h2       |

<<

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1-2 of 2

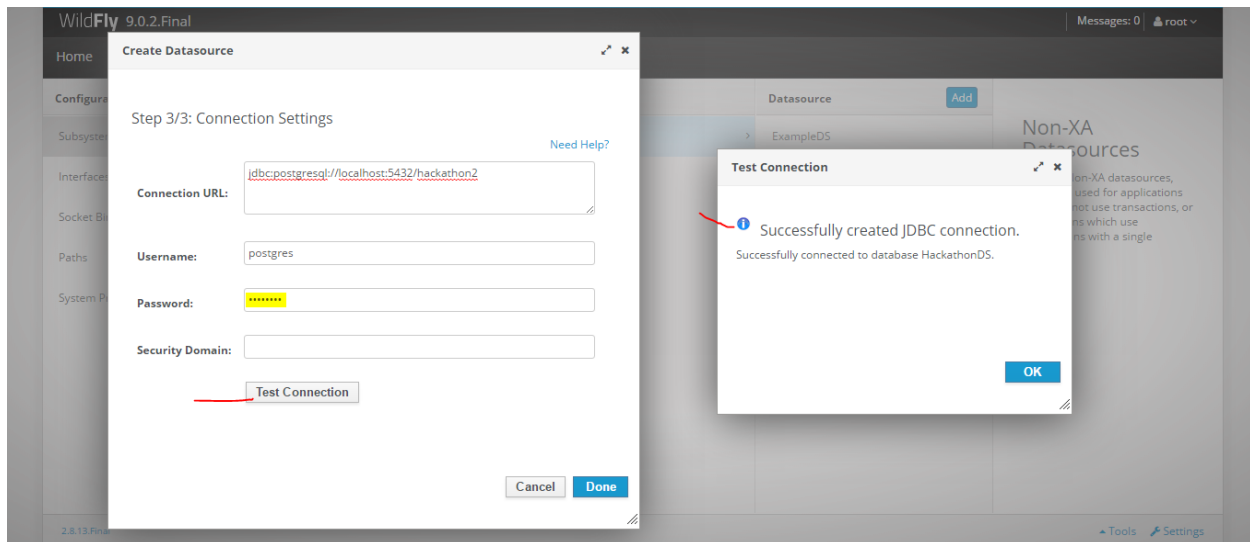
>

>>

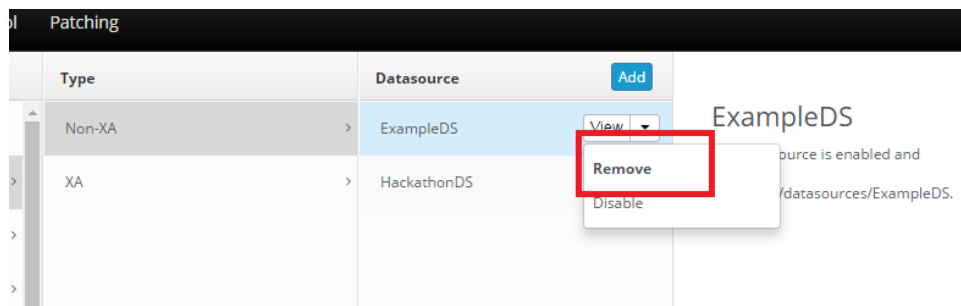
Cancel

Next »

- Password de conexão com Postgres: postgres



- Para testar se a conexão está certa, clicar em **Test Connection**
  - Resultado esperado: (Janela da direita)
- Clicar em **Done**
- Excluir o **ExampleDS**

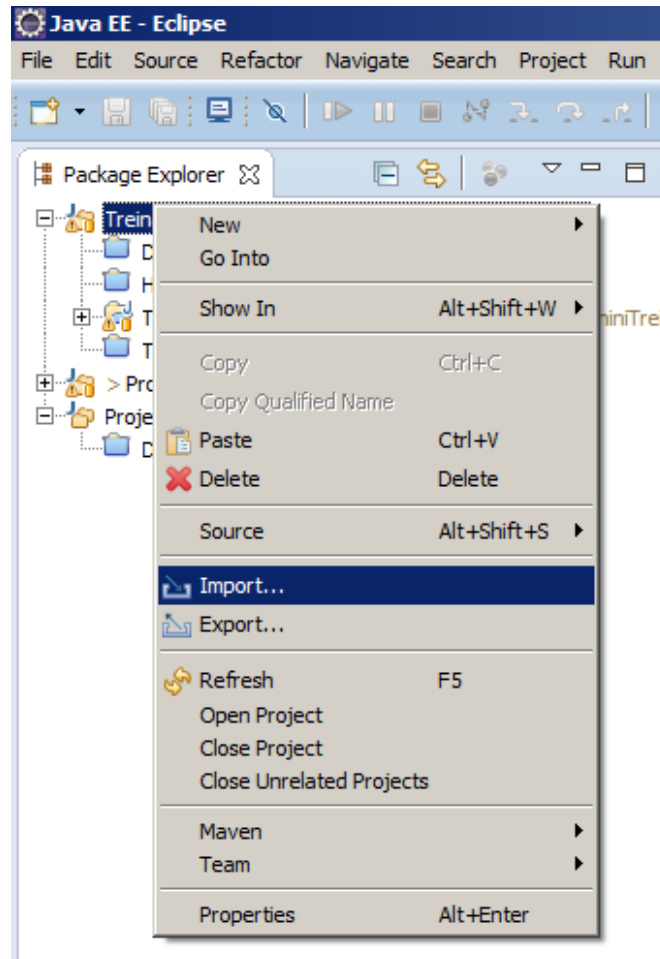


### IMPORTANTE:

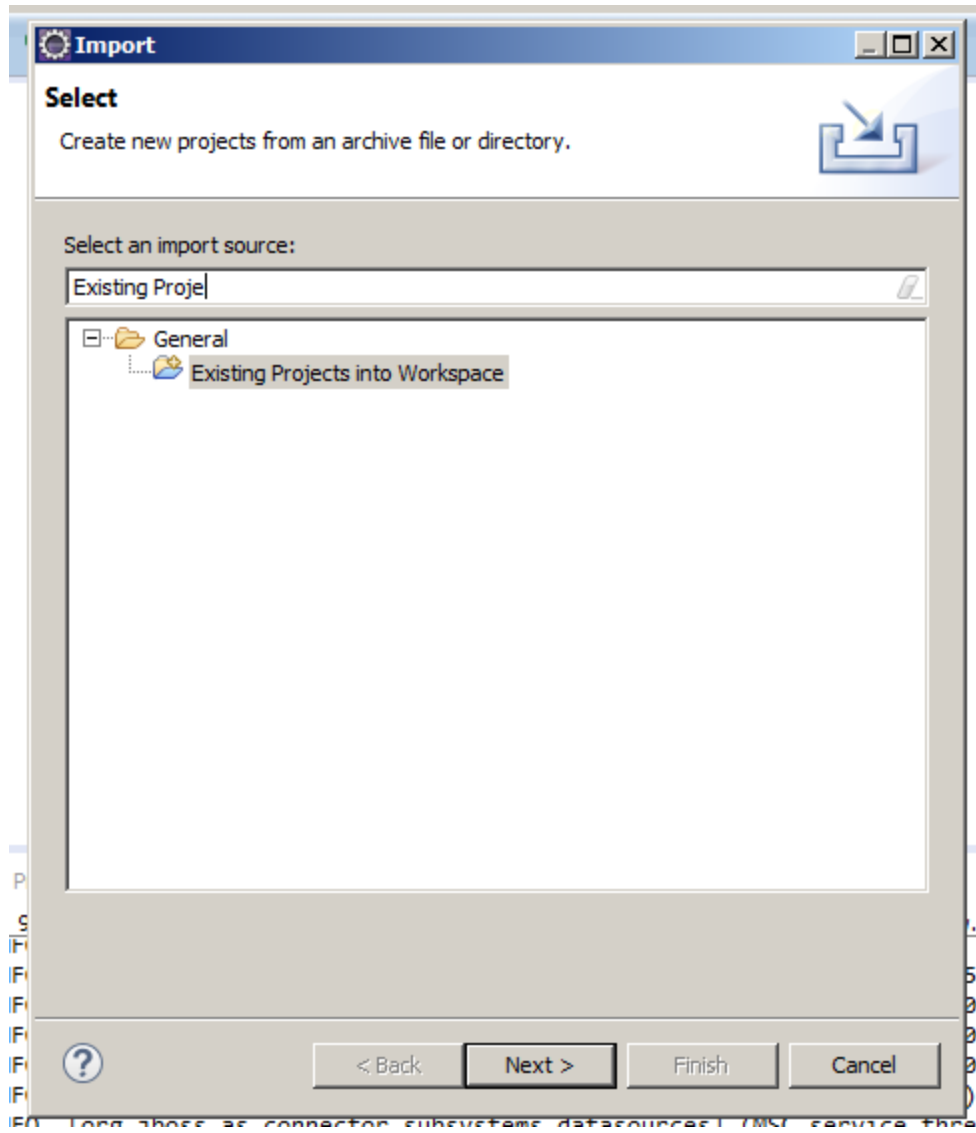
Navegar até:

- WILDFLY\_PATH/standalone/configuration
- Editar com o **Notepad++** o arquivo **standalone.xml**
- Editar na linha 188, o atributo **datasource**
- Substituir:
  - De -> java:jboss/datasources/ExampleDS
  - Por -> java:/jdbc/HackathonDS

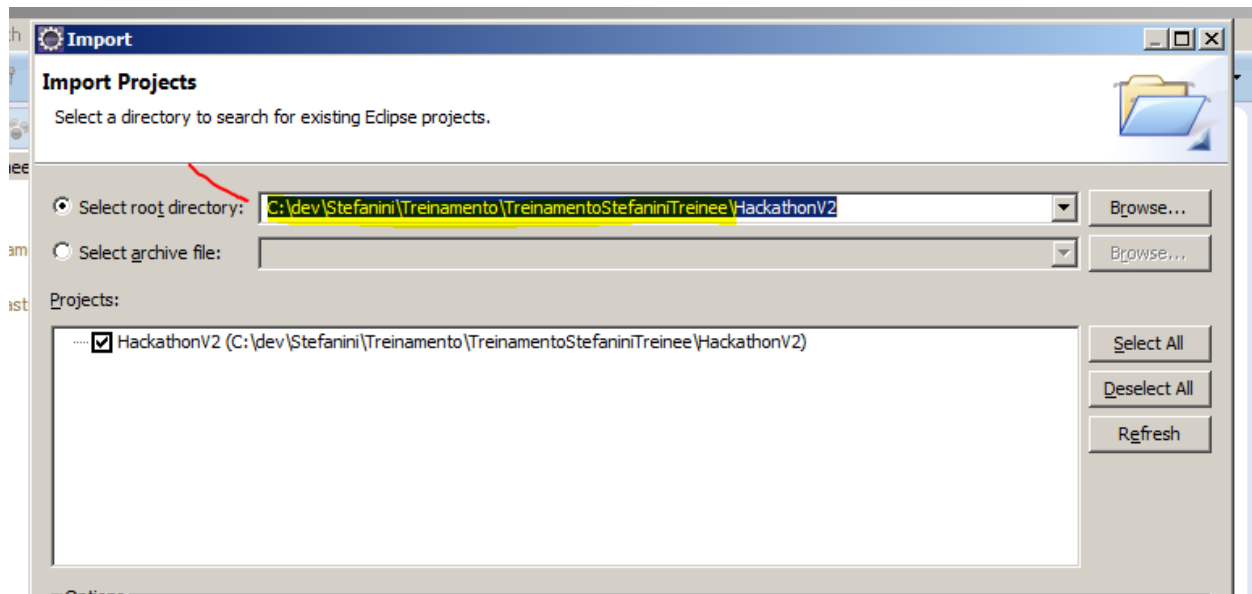
- Fazer um **pull** no repositório de Treinamentos (Git do Ivan)
  - Um novo projeto aparecerá: **HackathonV2**
- Importar o projeto Web
  - Na view **Package Explorer**
  - Clicar com o direito -> Import...



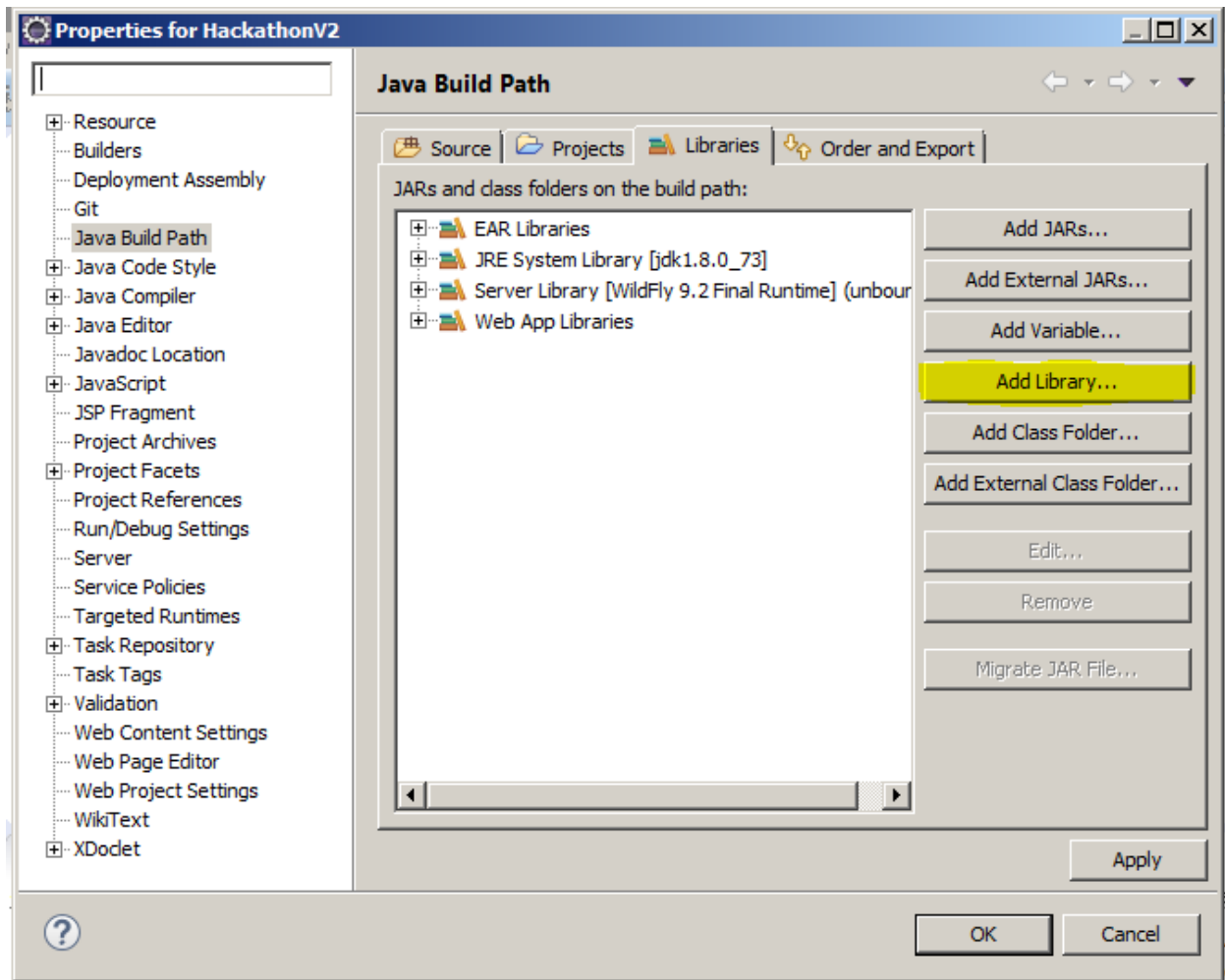
- Na Janela que irá abrir, digitar: "**Existing Proje**"



- Selecionar e **Next**
- Na próxima janela
  - No campo **Select root directory**, selecionar a pasta **HackathonV2**, que estará dentro da pasta de TreinamentoStefaniniTreinee
    - Obs.: O caminho completo pode divergir do meu (Ivan), sem problemas.
  - Ao selecionar, clicar em **Finish**

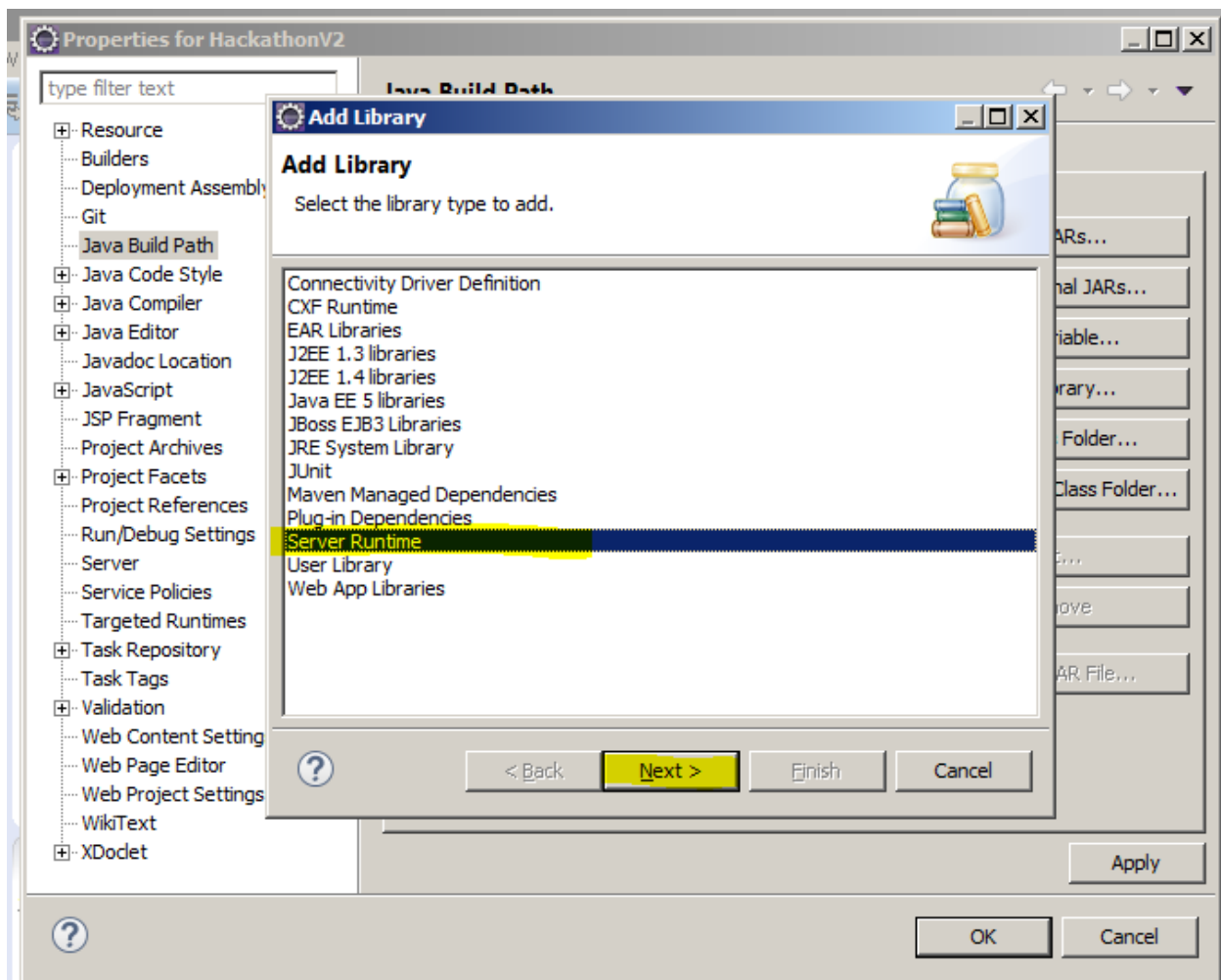


- Ao importar o projeto no Eclipse, será necessário adicionar o Servidor nas dependências do Projeto, para que o projeto tenha acesso à algumas bibliotecas necessárias. Estas serão fornecidas pelo próprio servidor de aplicação (Wildfly)
  - Clicar com o direito sobre o projeto
    - **Build Path > Configure Build Path...**
    - Na janela que irá abrir, clicar em **Add Library...**

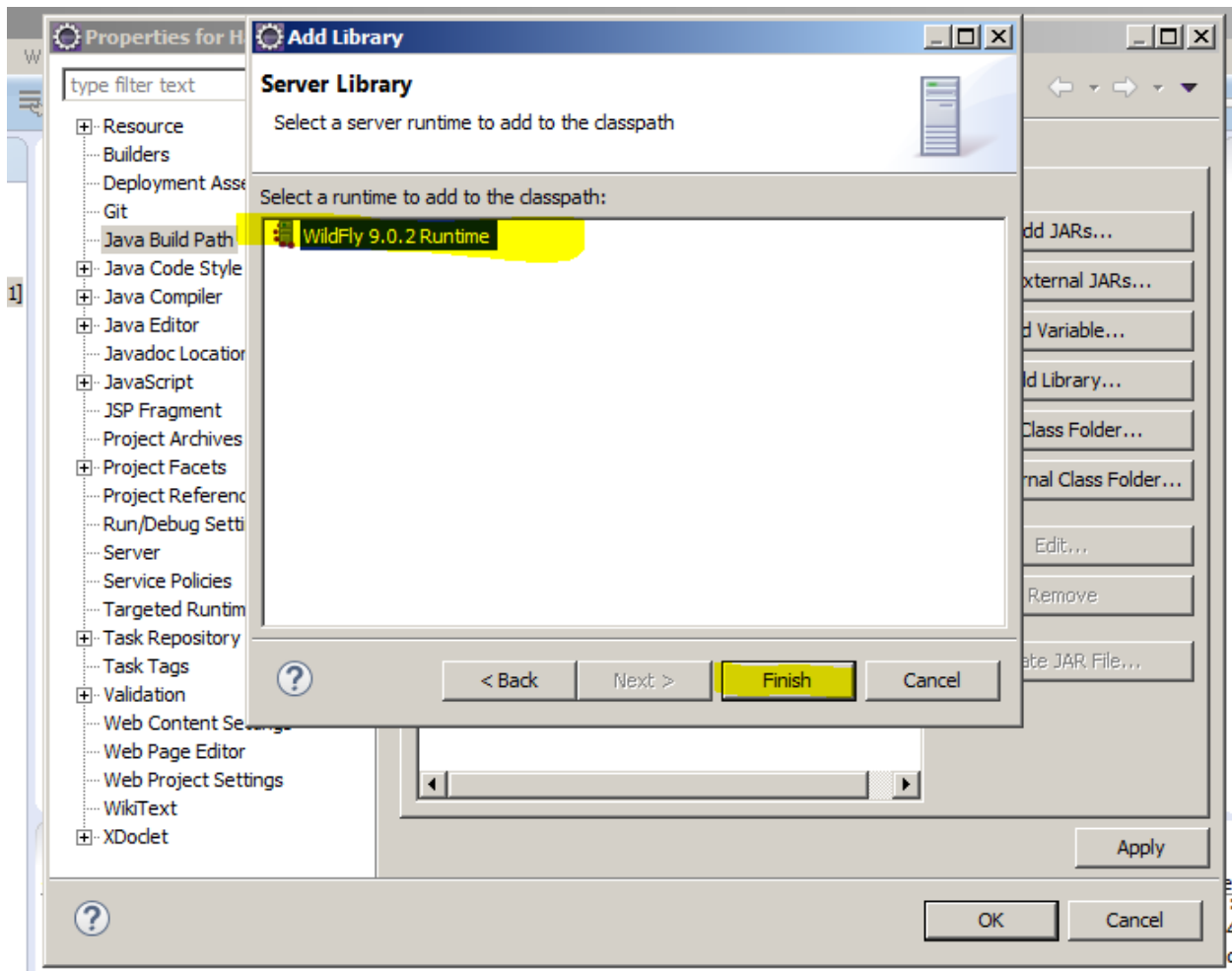


- Selecionar **Server Runtime**, clicar em **Next**

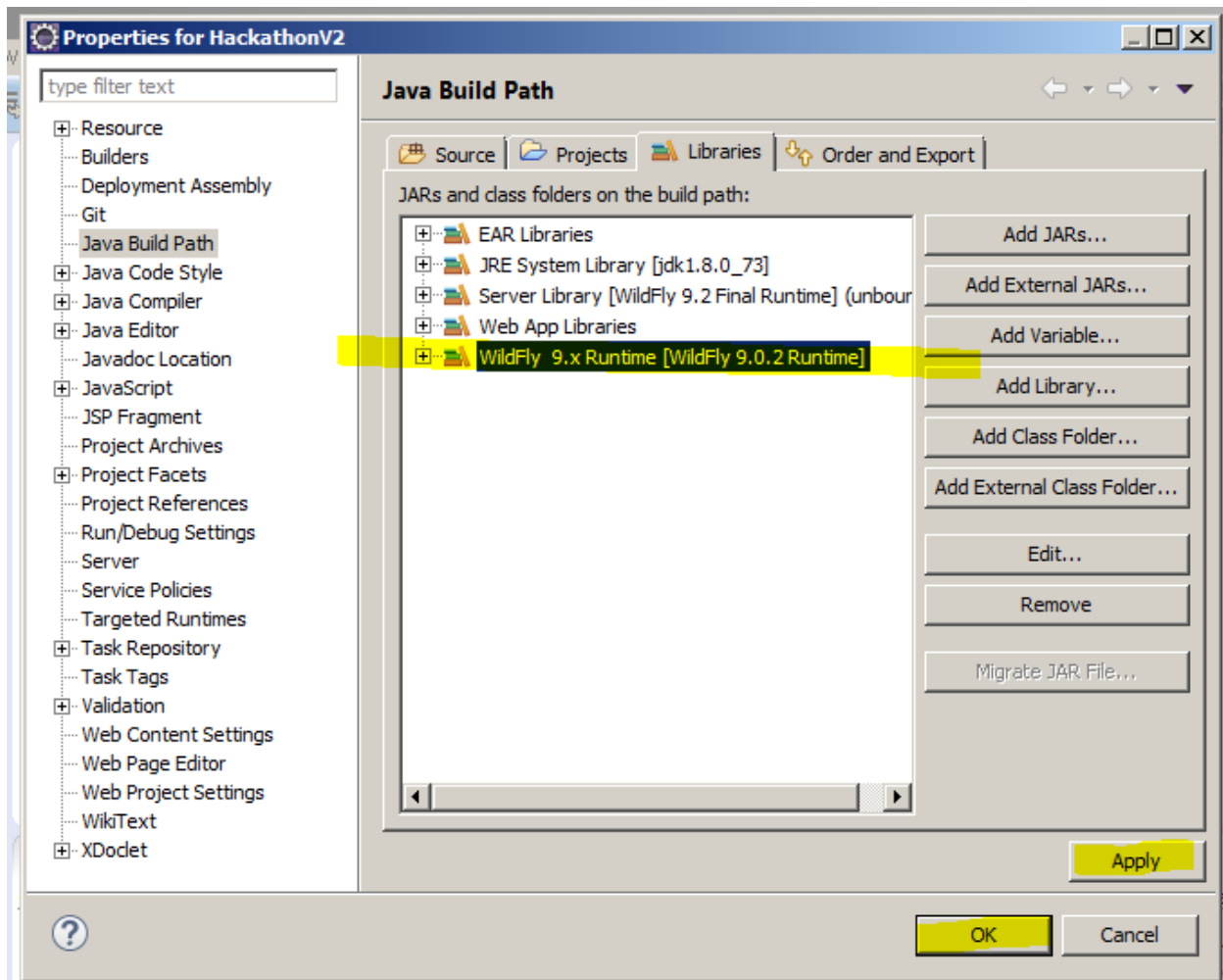




- Selecionar o Servidor criado etapas antes, clicar em **Finish**



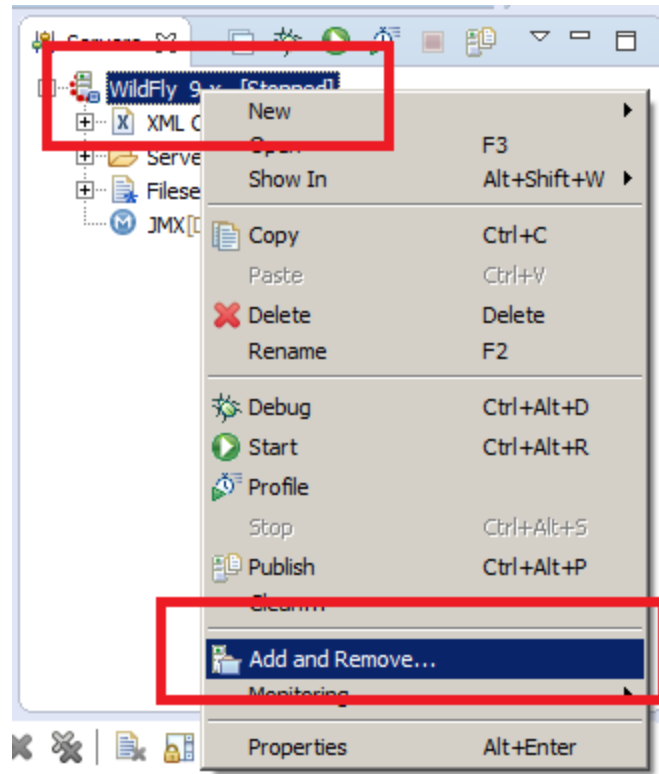
- O Servidor adicionado, deverá aparecer na lista de dependências.
- Clicar em **Apply** e em **OK**



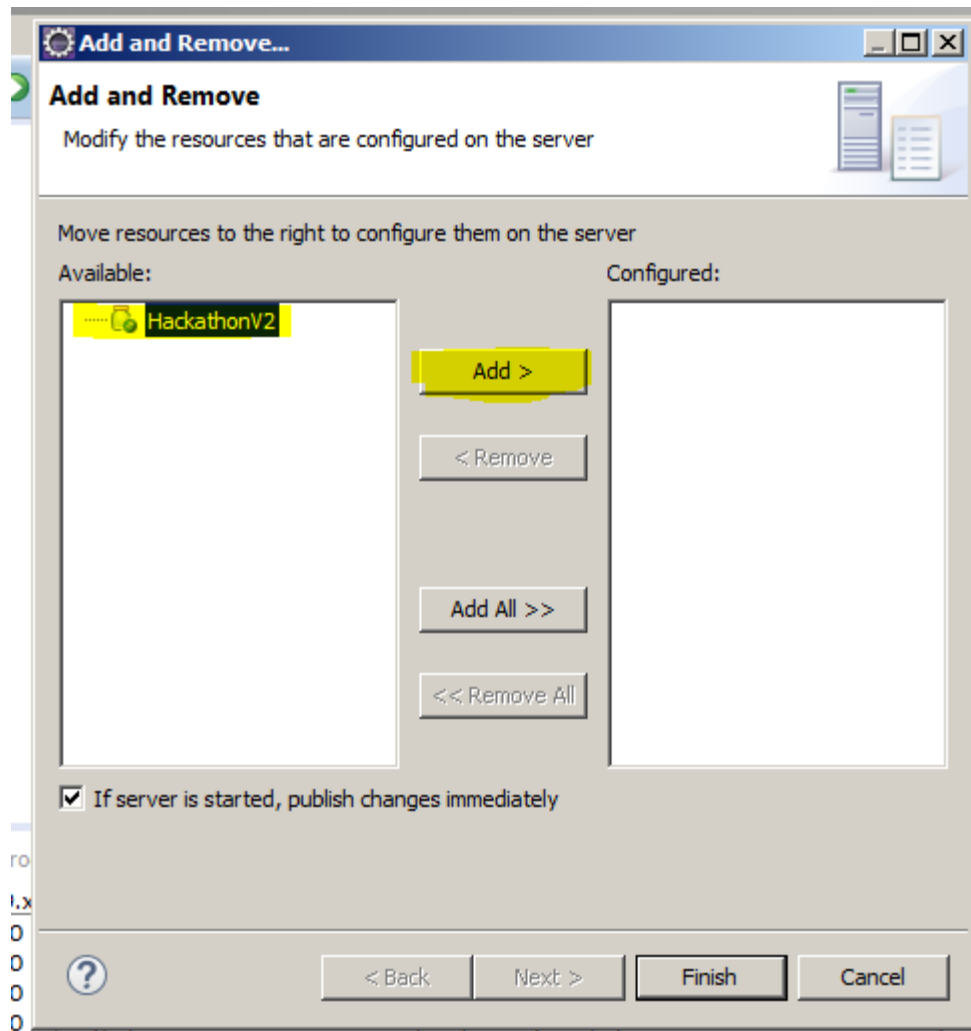
- Resultado esperado:
  - Projeto não deve mais apresentar **Erros**

### 3 – Adicionar projeto no Servidor para **Deploy**

- Clicar com direito no Servidor, na view **Servers**
- Clicar em **Add and Remove...**

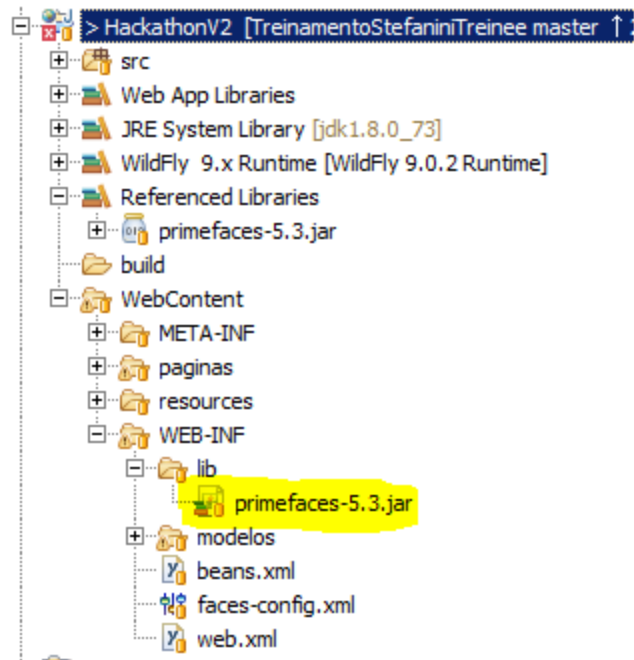


- Na janela que irá abrir, selecionar o Projeto e clicar em **Add**
- Clicar em **Finish**

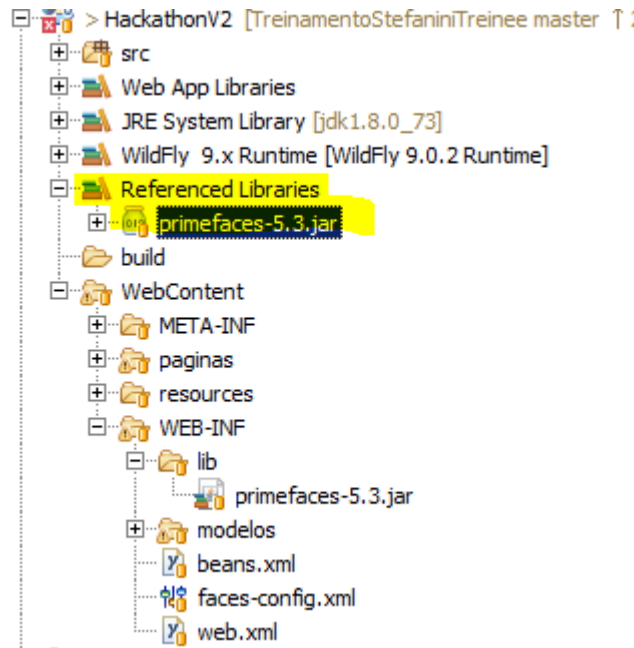


#### 4 – Primefaces

- Expandir as pastas do Projeto **HackathonV2**
  - **WebContent > WEB-INF > lib**



- Clicar com o direito sobre o **.jar**
- Navegar em **Build Path > Add to Build Path...**
- Resultado esperado:



5 – Rodar a aplicação:

- Clicar sobre o servidor na view, e clicar no ícone "**play**" (Start the server)
- Resultado esperado:

```

) [org.hibernate.Version] (ServerService Thread Pool -- 58) HHH000412: Hibernate Core {4.3.10.Final}
) [org.hibernate.cfg.Environment] (ServerService Thread Pool -- 58) HHH000206: hibernate.properties not found
) [org.hibernate.cfg.Environment] (ServerService Thread Pool -- 58) HHH000021: Bytecode provider name : javassist
) [org.jboss.weld.deployer] (MSC service thread 1-5) WFLYWELD0003: Processing weld deployment HackathonV2.war
) [org.hibernate.validator.internal.util.Version] (MSC service thread 1-5) HV000001: Hibernate Validator 5.1.3.Final
) [org.jboss.weld.deployer] (MSC service thread 1-5) WFLYWELD0006: Starting Services for CDI deployment: HackathonV2.war
) [org.jboss.weld.Version] (MSC service thread 1-5) WELD-000900: 2.2.16 (SP1)
) [org.jboss.weld.deployer] (MSC service thread 1-3) WFLYWELD0009: Starting weld service for deployment HackathonV2.war
) [org.jboss.as.jpa] (ServerService Thread Pool -- 58) WFLYJPA0010: Starting Persistence Unit (phase 2 of 2) Service 'HackathonV2.war#Hackathon2Unit'
) [org.hibernate.annotations.common.Version] (ServerService Thread Pool -- 58) HCANN000001: Hibernate Commons Annotations {4.0.5.Final}
) [org.hibernate.dialect.Dialect] (ServerService Thread Pool -- 58) HHH000400: Using dialect: org.hibernate.dialect.PostgreSQLDialect
) [org.hibernate.engine.jdbc.internal.LobCreatorBuilder] (ServerService Thread Pool -- 58) HHH000424: Disabling contextual LOB creation as createClob() method threw
) [org.hibernate.hql.internal.ast.ASTQueryTranslatorFactory] (ServerService Thread Pool -- 58) HHH000397: Using ASTQueryTranslatorFactory
) [org.hibernate.tool.hbm2ddl.SchemaExport] (ServerService Thread Pool -- 58) HHH000227: Running hbm2ddl schema export
) [stdout] (ServerService Thread Pool -- 58) Hibernate: drop table if exists Livro cascade

) [stdout] (ServerService Thread Pool -- 58) Hibernate: create table Livro (id serial not null, autor varchar(255) not null, nome varchar(255) not null, paginas int

) [org.hibernate.tool.hbm2ddl.SchemaExport] (ServerService Thread Pool -- 58) HHH000230: Schema export complete
) [org.hibernate.internal.SessionFactoryImpl] (ServerService Thread Pool -- 58) HHH000008: JTA SessionContext being used with JDBC TransactionFactory; auto-flush will
) [javax.enterprise.resource.webcontainer.jsf.config] (ServerService Thread Pool -- 60) Inicializando Mojarra 2.2.12-jbossorg-2 20150729-1131 para o contexto '/Hacka
) [org.primefaces.webapp.PostConstructApplicationEventListener] (ServerService Thread Pool -- 60) Running on PrimeFaces 5.3
) [org.wildfly.extension.undertow] (ServerService Thread Pool -- 60) WFLYUT0021: Registered web context: /HackathonV2
) [org.jboss.as.server] (ServerService Thread Pool -- 34) WFLYSRV0010: Deployed "HackathonV2.war" (runtime-name : "HackathonV2.war")
) [org.jboss.as] (Controller Boot Thread) WFLYSRV0060: Http management interface listening on http://127.0.0.1:9990/management
) [org.jboss.as] (Controller Boot Thread) WFLYSRV0051: Admin console listening on http://127.0.0.1:9990
) [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: WildFly Full 9.0.2.Final (WildFly Core 1.0.2.Final) started in 10889ms - Started 308 of 488 services (221 serv

```

- Acessar no navegador a URL:

- <http://localhost:8080/HackathonV2/>

