$ 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

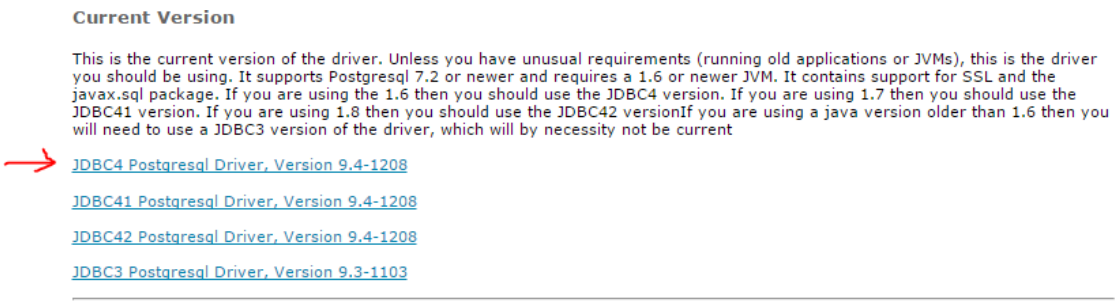
- Download Wildfly 9:
  - http://wildfly.org/downloads/
  - Na lista de versões, procurar a vesão **9.0.2 Final**

9.0.2.Final	2015-10-26	Java EE7 Full & Web Distribution	LGPL	130 MB	ZIP

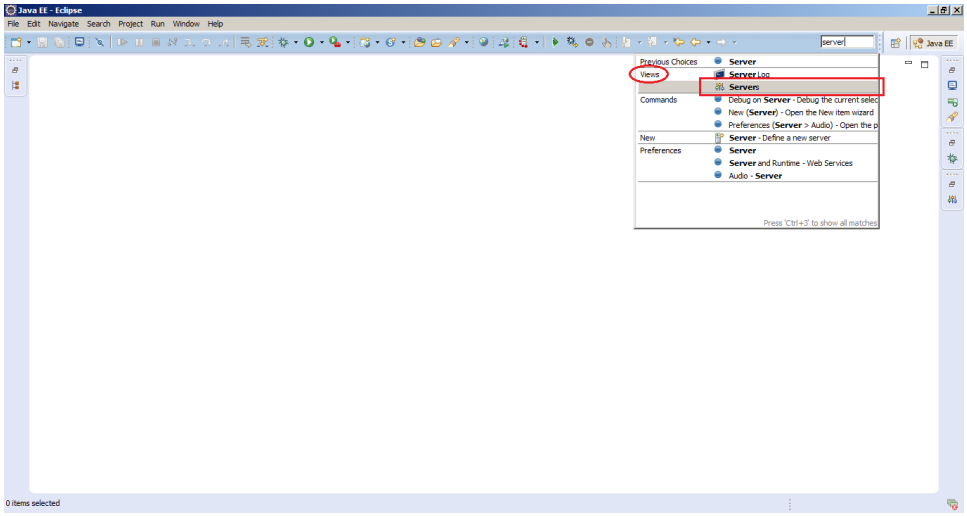
  - Abrir .zip baixado
  - Extrair a pasta ***wildfly-9.0.2.Final*** para o diretório ***C:\dev\Servers***

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

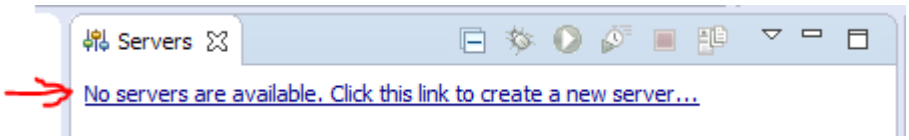
- Download driver de conexão com banco Postgres:
  - https://jdbc.postgresql.org/download.html
  - Procurar por JDBC4 Postgresql Driver, Version 9.4-1208



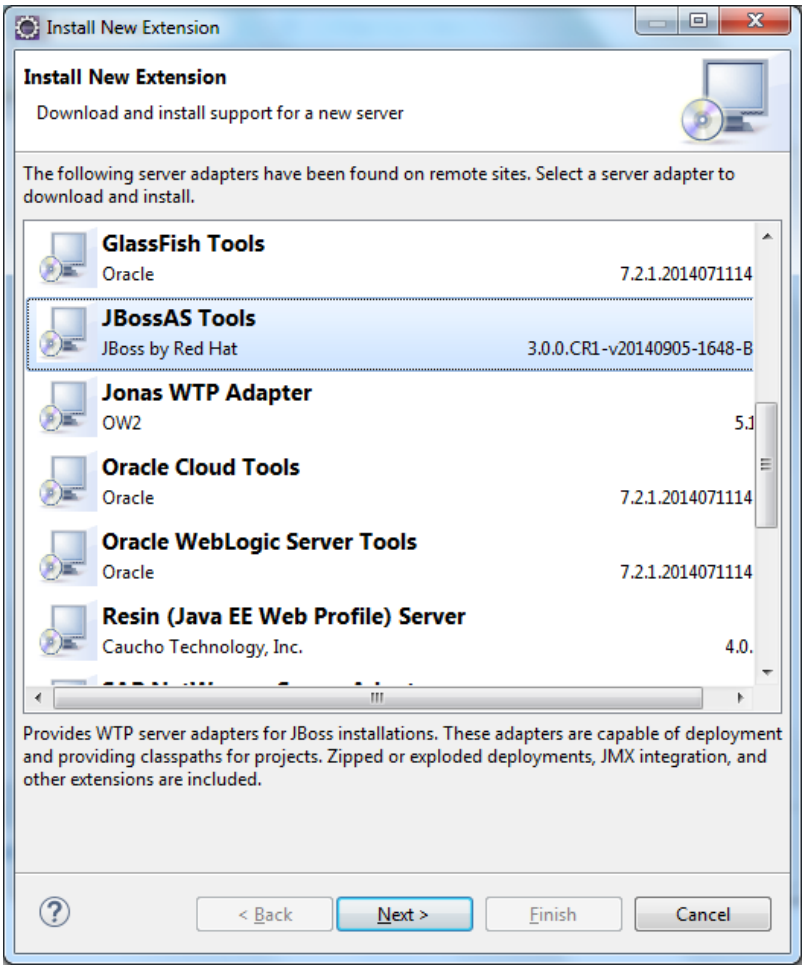
- Adicionar Servidor no Eclipe
  - Abrir a *view* de **Servers**
    - CTRL+3 e digitar: *server*



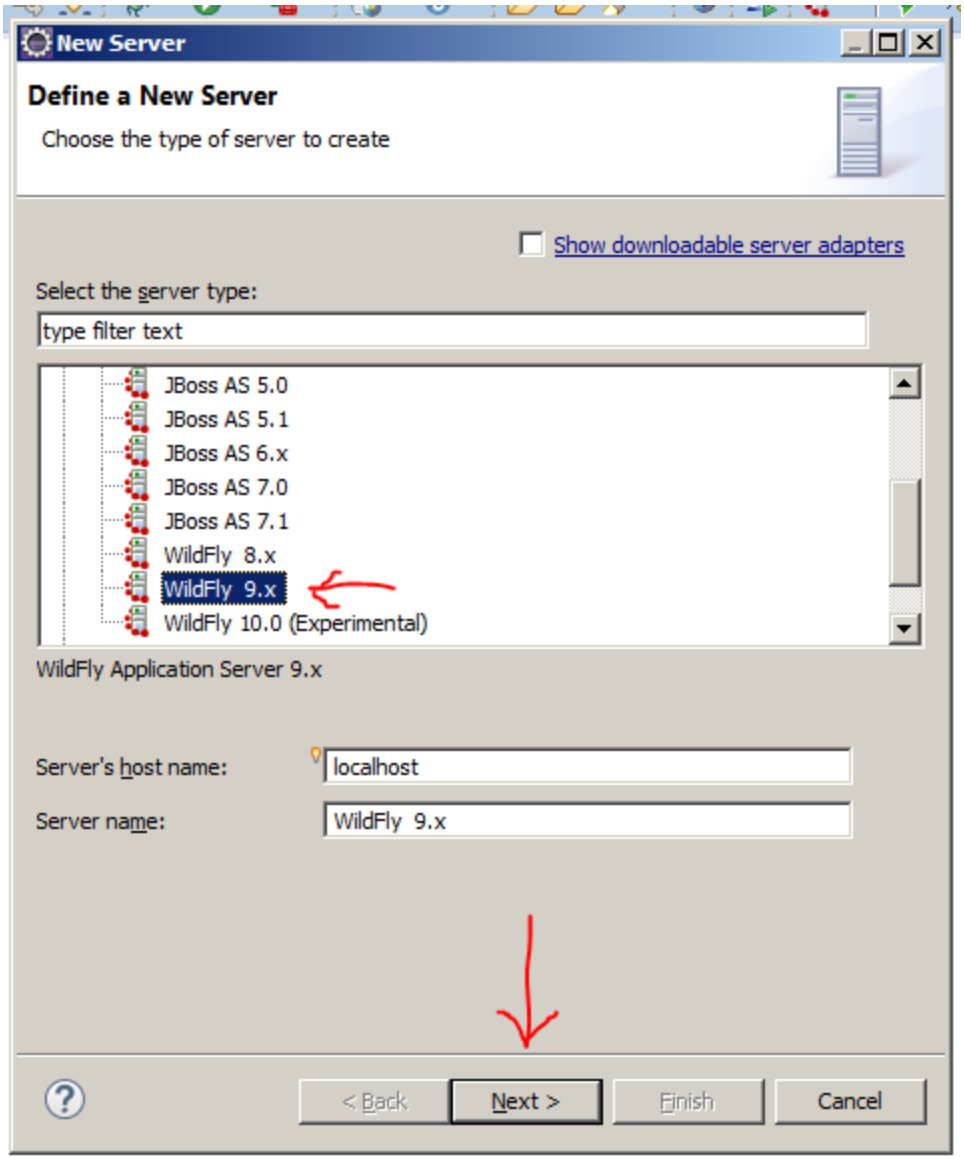
  - Com a view ser *Servers* aberta, clicar em:



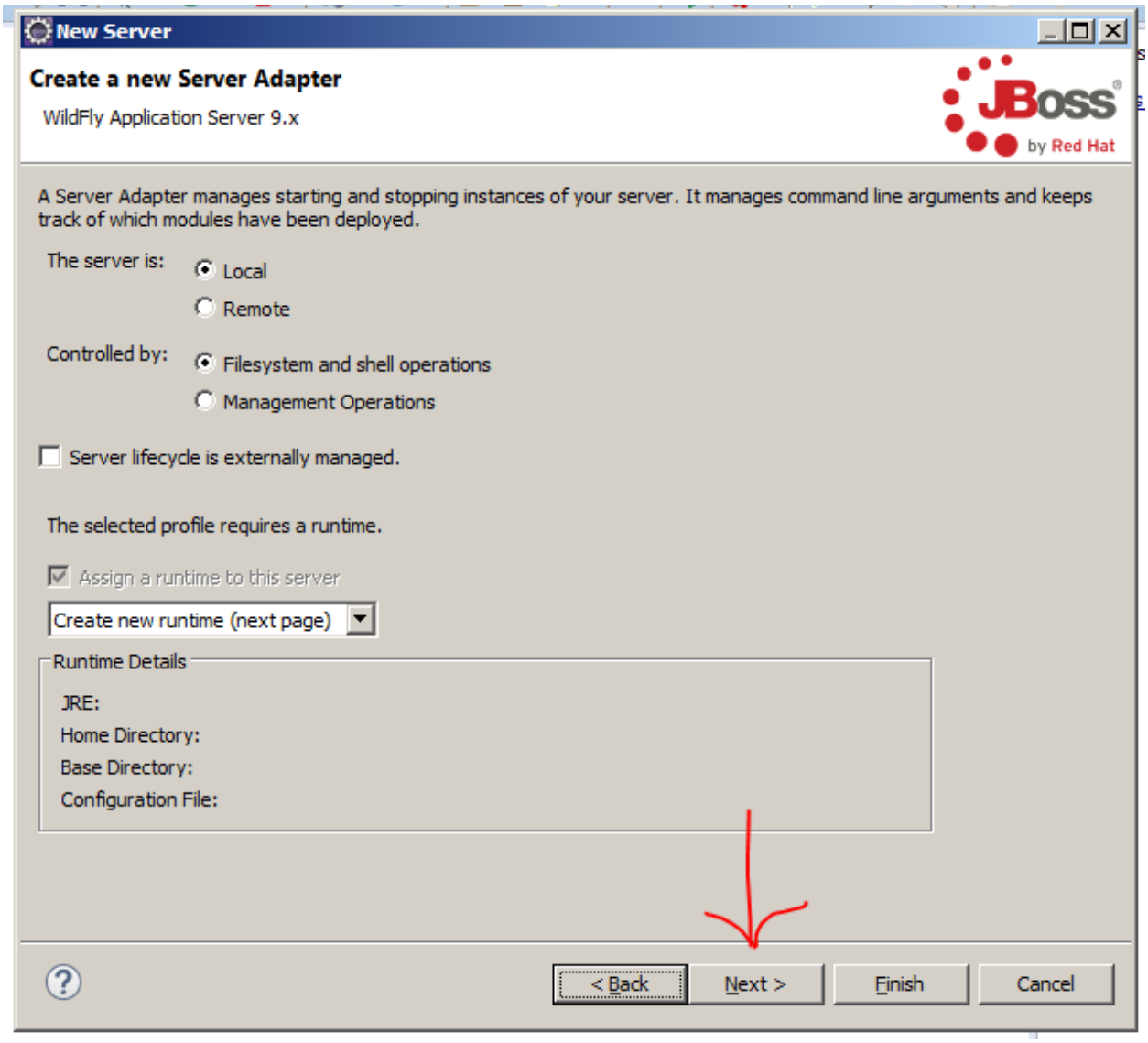
  - Na nova janela que irá aparecer, clicar na opção ***Download additional server adapters***. Em seguida, devemos procurar por ***JBossAS Tools*** e logo após prosseguir com a instalação e aceitar os termos da licença.



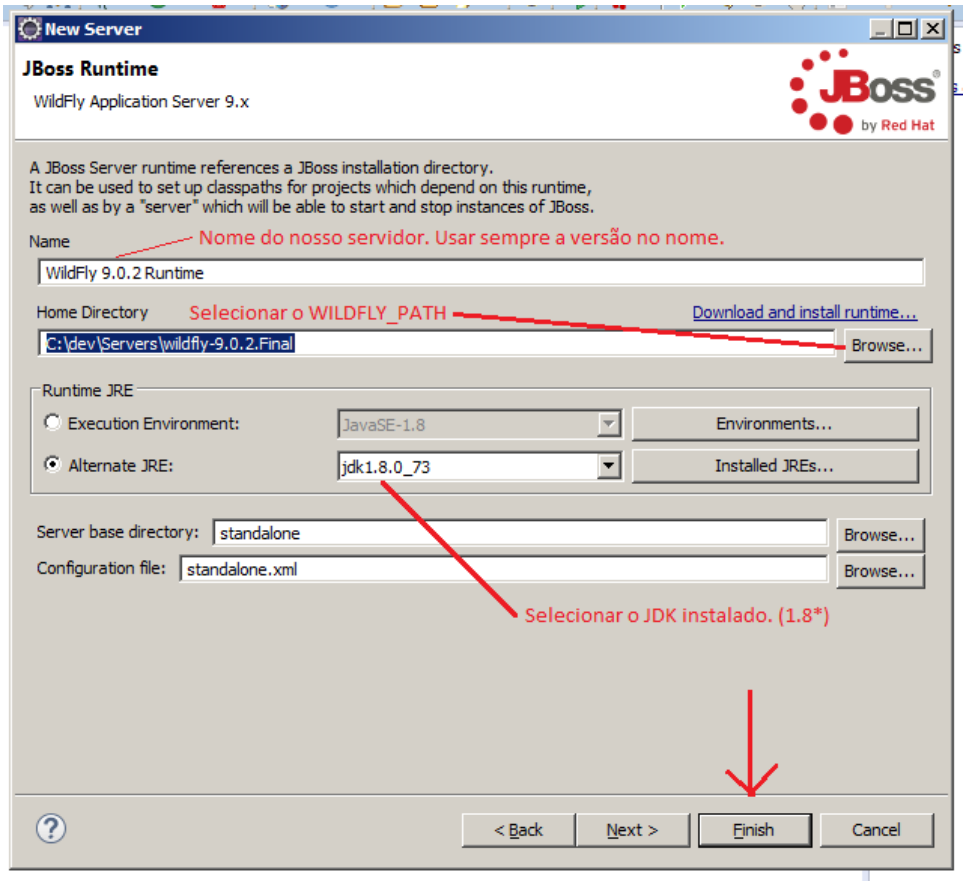
- Após a instalação do ***JBossAS Tools*** conseguiremos adicionar o ***WildFly*** no Eclipse clicando com o botão direito em qualquer lugar vazio na view ***Servers*** e, no menu suspenso que se abre, apontar o mouse sobre a opção ***New*** e clicar em ***Server***.
- A versão do servidor que vamos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



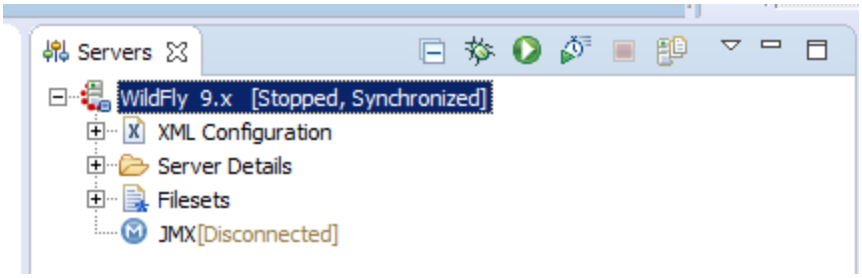
- IMPORTANTE: o **Server name** deve ser "**WildFly 9.2 Final Runtime**"
- Na próxima etapa doWizard, apenas ***Next***



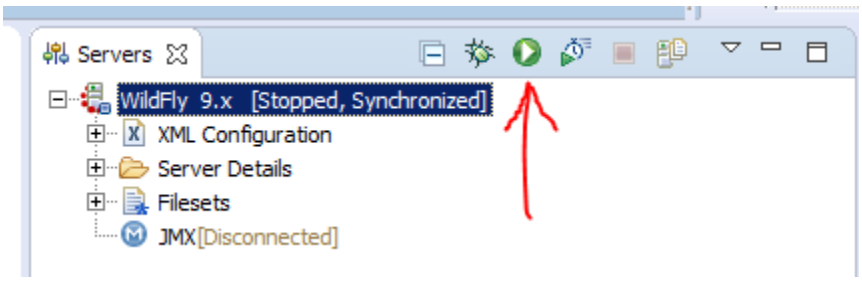
- Na próxima etapa, configuramos o "nome" do servidor, local e versão do Java
- Feito isto, basta finalizar (*Finish*)
- IMPORTANTE: O nome do Servidor deve ser: "**WildFly 9.2 Final Runtime**"



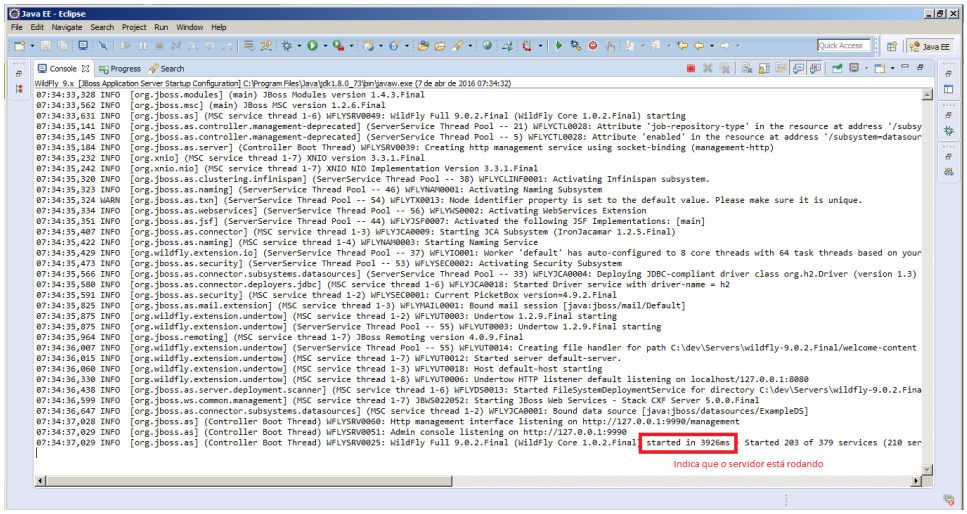
- Resultado esperado:



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



- Resultado esperado:

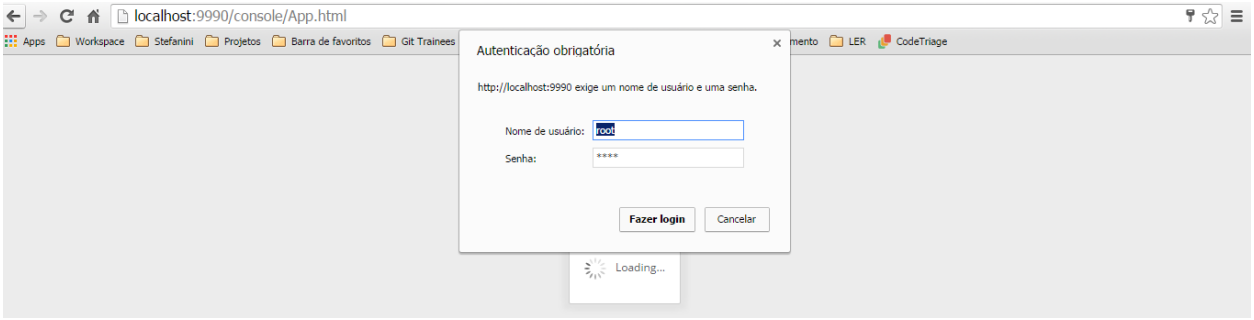


- Adicionar um módulo - Conexão com Postgres (**Servidor deve estar Iniciado/Rodando**)
  - Navegar até o diretório WILDFLY_PATH pelo explorer do Windows
  - Entrar na pasta ***bin***
  - Executar o ***jboss-cli.bat***
  - To terminarl que irá abrir, digite ***connect*** e pressione ***Enter***
  - Digite 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 seguinda, 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"}***

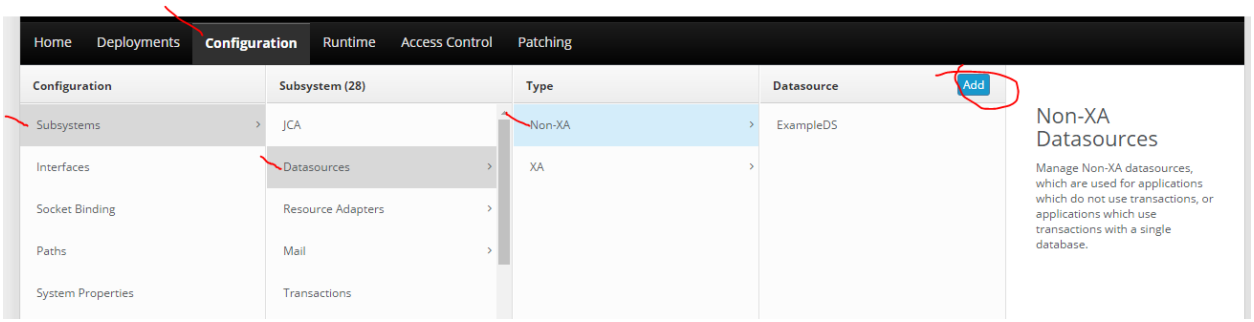
- Adicionar um usuário gerenciador do Servidor:
  - Navegar até o ***WILDFLY_PATH***
  - Entrar na pasta ***bin***

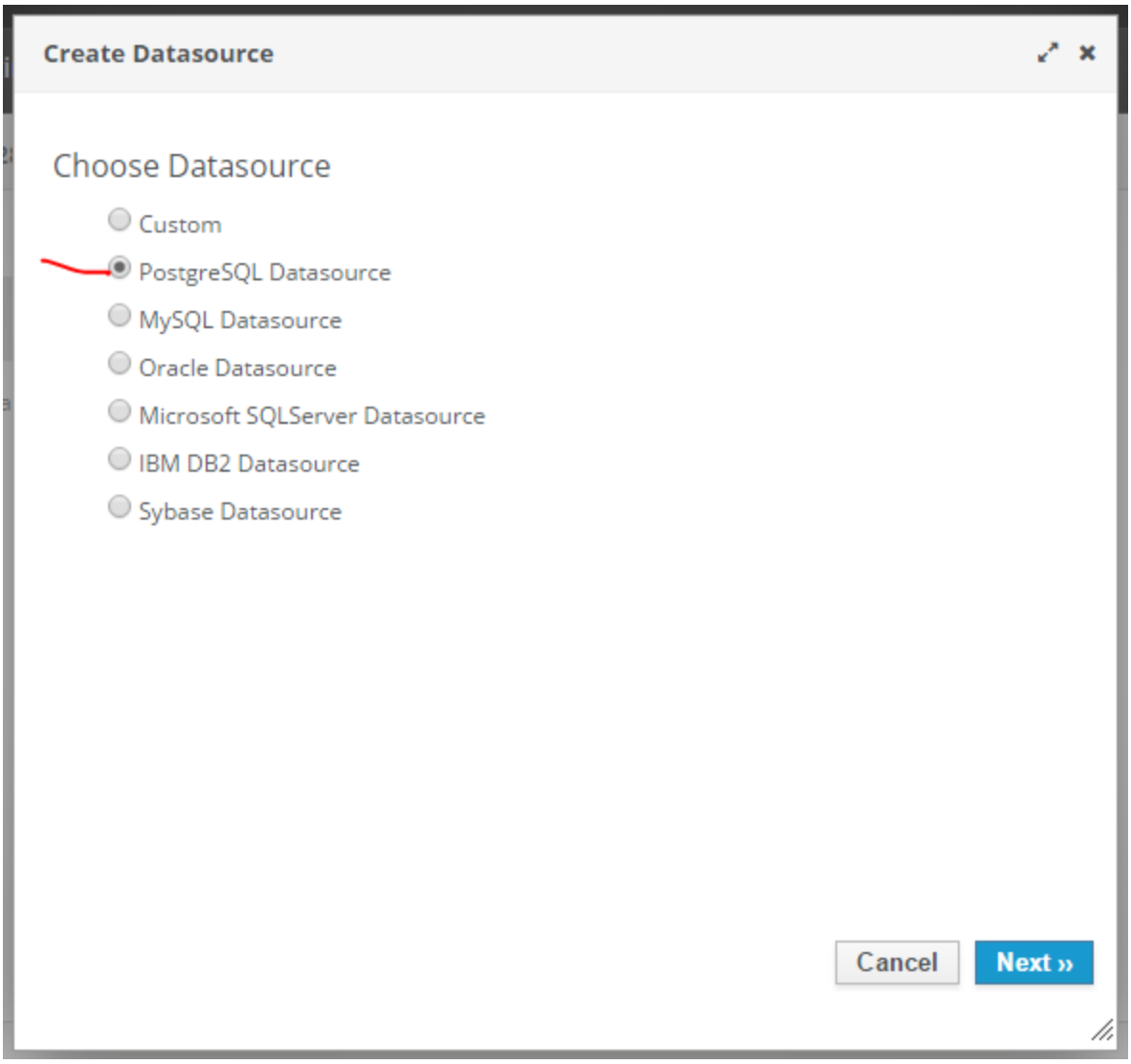
- Executar o ***add-user.bat***
- No terminar que irá abrir (a cada etapa, pressionar Enter):
  - Digitar ***a***, (Management User)
  - *Username:* **root**
  - **y**
  - *Password:* **root**
  - **y**
  - *Re-enter Password:* **root**
  - **enter**
  - **y**
  - **y**
  - Pressione qualquer tecla para que o prompt seja fechado

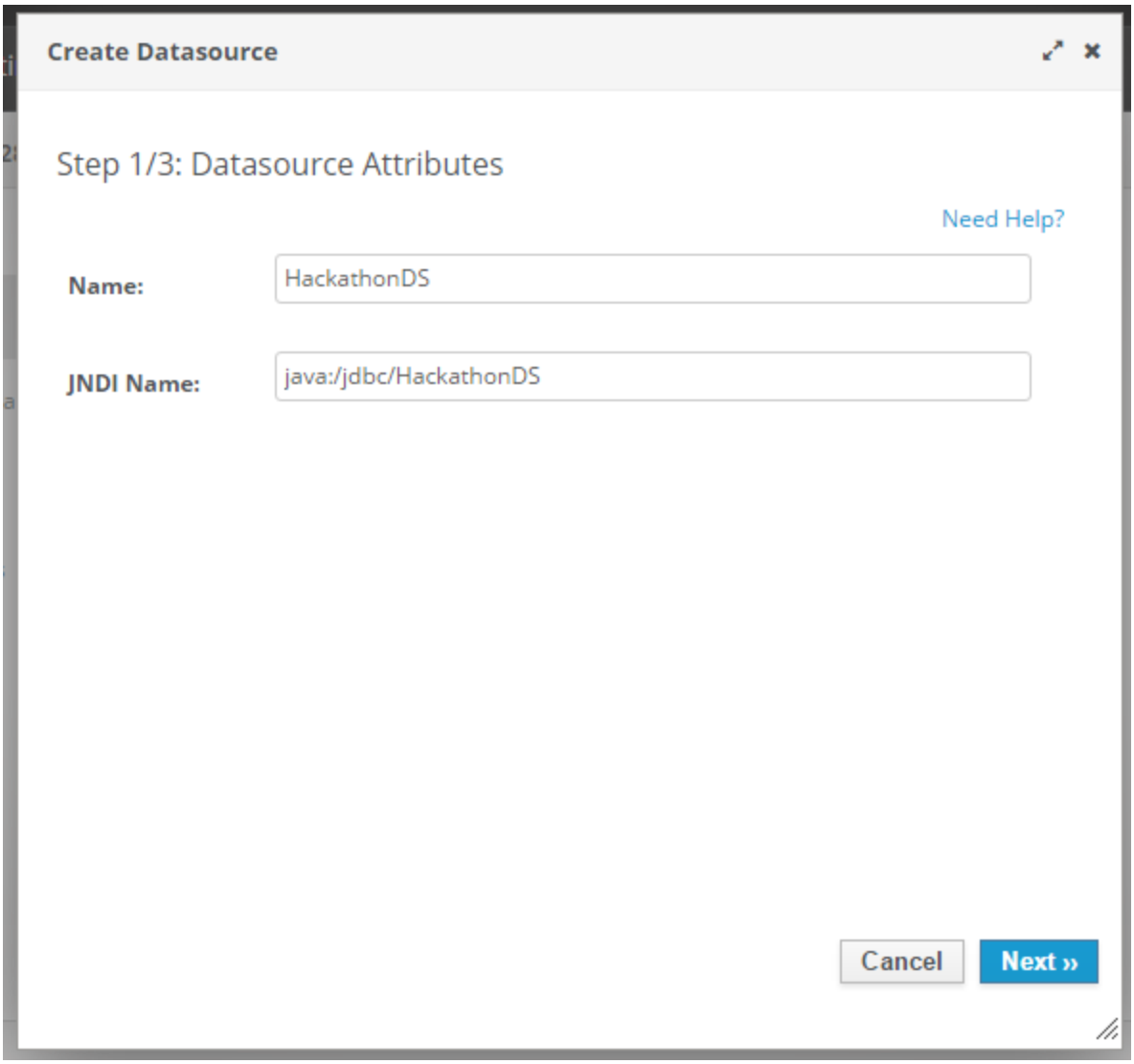
- Criar um Data Source Postgres
  - Acessar a url: ***http://localhost:9990/console***



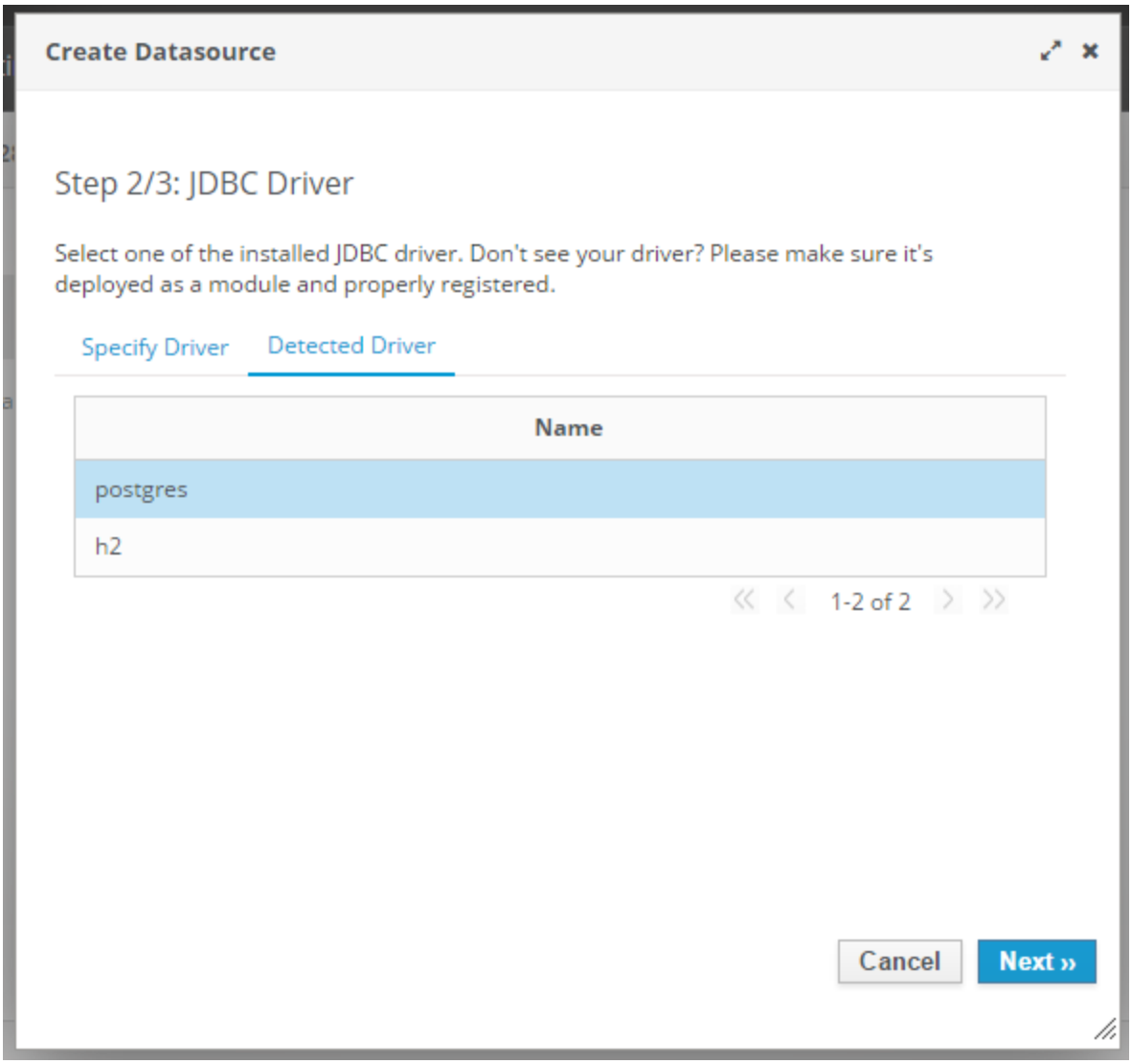
  - Informar o usuário e senha de gerenciamento
    - Root/root
  - Na página que irá abrir, navegar por:
    - Menu: ***Configuration***
      - ***Subsystems > Datasources > Non-XA >***
    - Clicar no botão ***Add***


Home
Deployments
Configuration
Runtime
Access Control
Patching
Configuration
Subsystem (28)
Type
Datasource
Add
Subsystems
Interfaces
Socket Binding
Paths
System Properties
JCA
Datasources
Resource Adapters
Mail
Transactions
Non-XA
XA
ExampleDS
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.

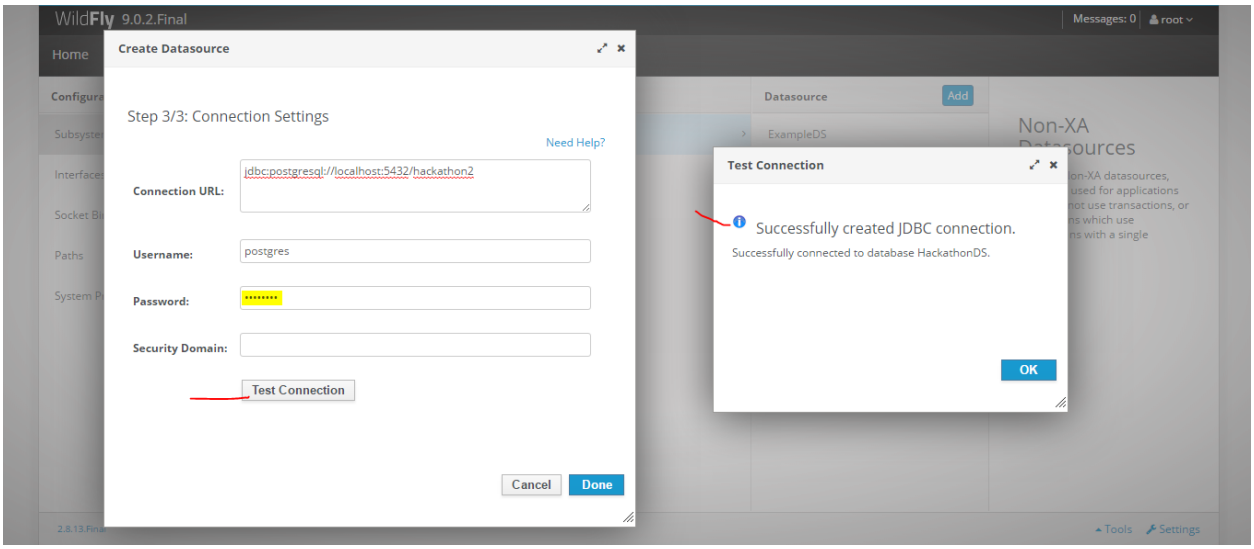

Create Datasource
Choose Datasource
Custom
PostgreSQL Datasource
MySQL Datasource
Oracle Datasource
Microsoft SQLServer Datasource
IBM DB2 Datasource
Sybase Datasource
Cancel
Next »



- No **Step 2/3: JDBC Driver**:
  - Clicar no **Detected Driver**, selecionar **postgres**

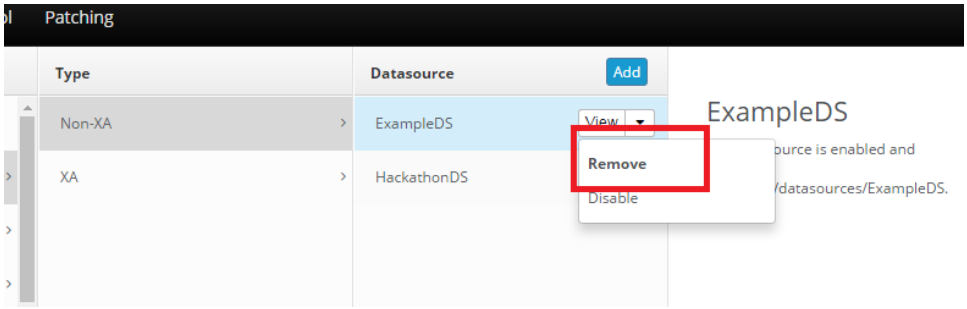


- **Password de conexão com Postgres: postgres**



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

- Excluir o **ExampleDS**



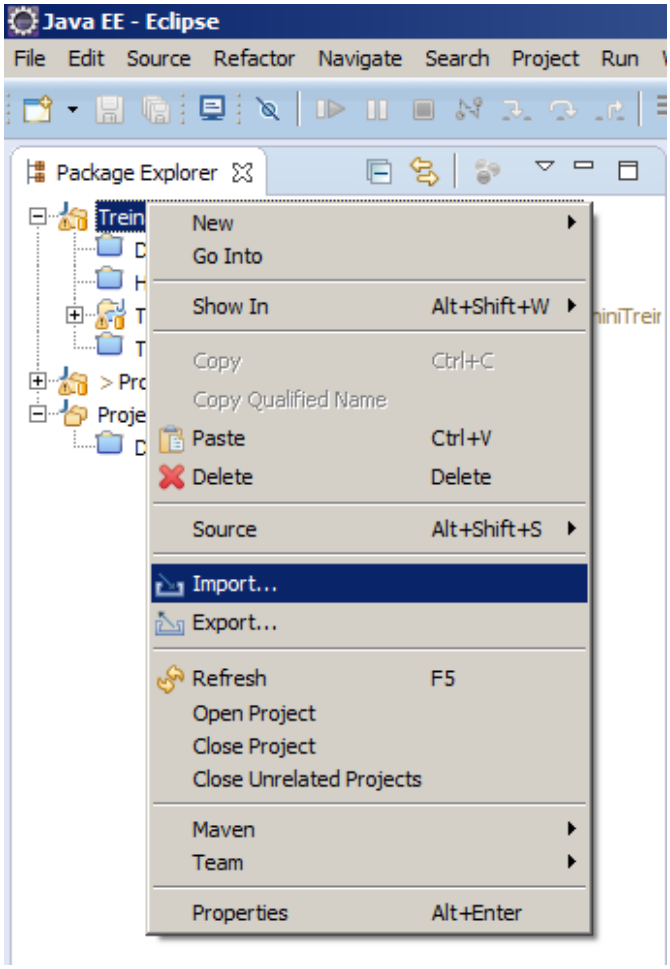
IMPORTANTE:

Navegar até:

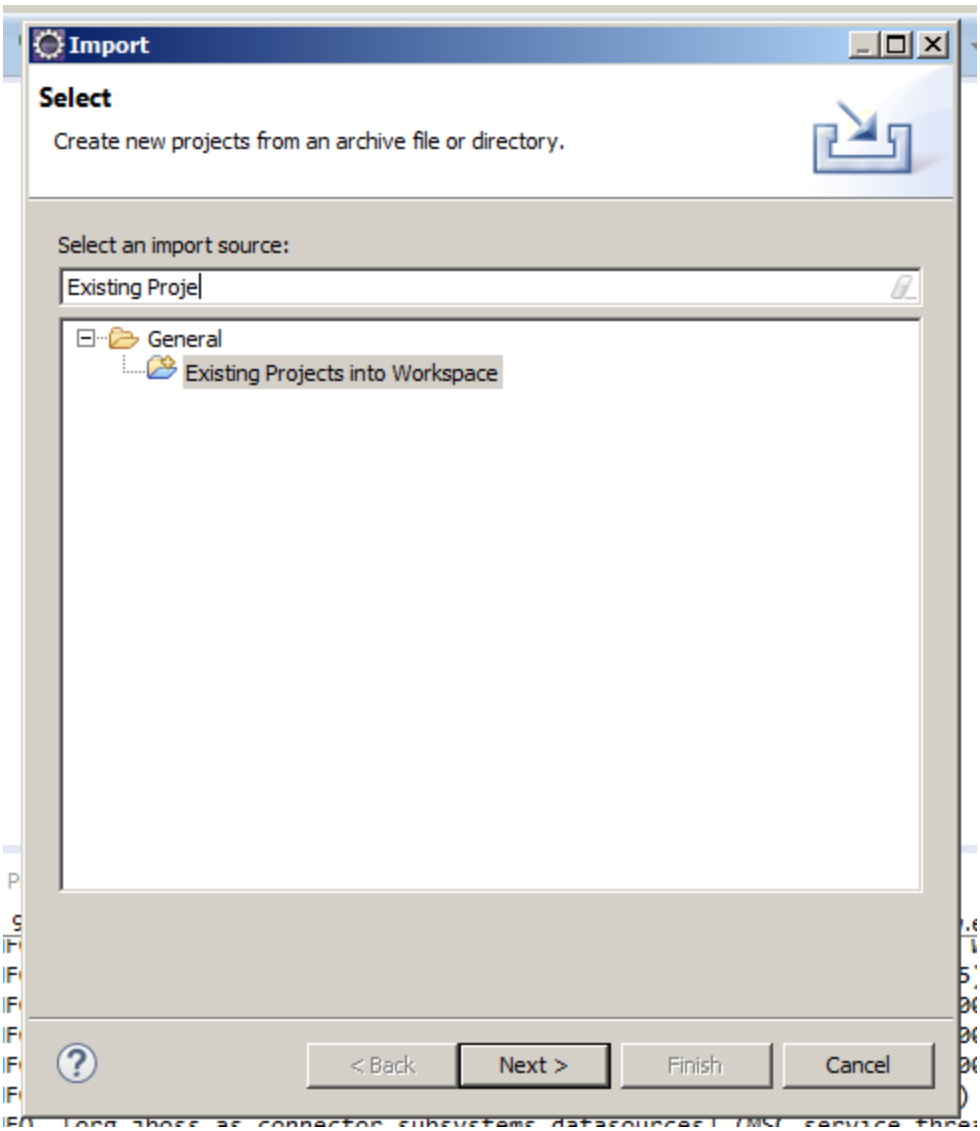
- WILDFLY_PATH/standalone/configuration
- Editar com o ***Notepad++*** o arquivo ***standalone.xml***
- Editar na linha 188, o atributo ***datasource***
- Substituir:
  - De -> java:jboss/datasources/ExampleDS
  - Por -> java:/jdbc/HackathonDS

2 – Eclipse

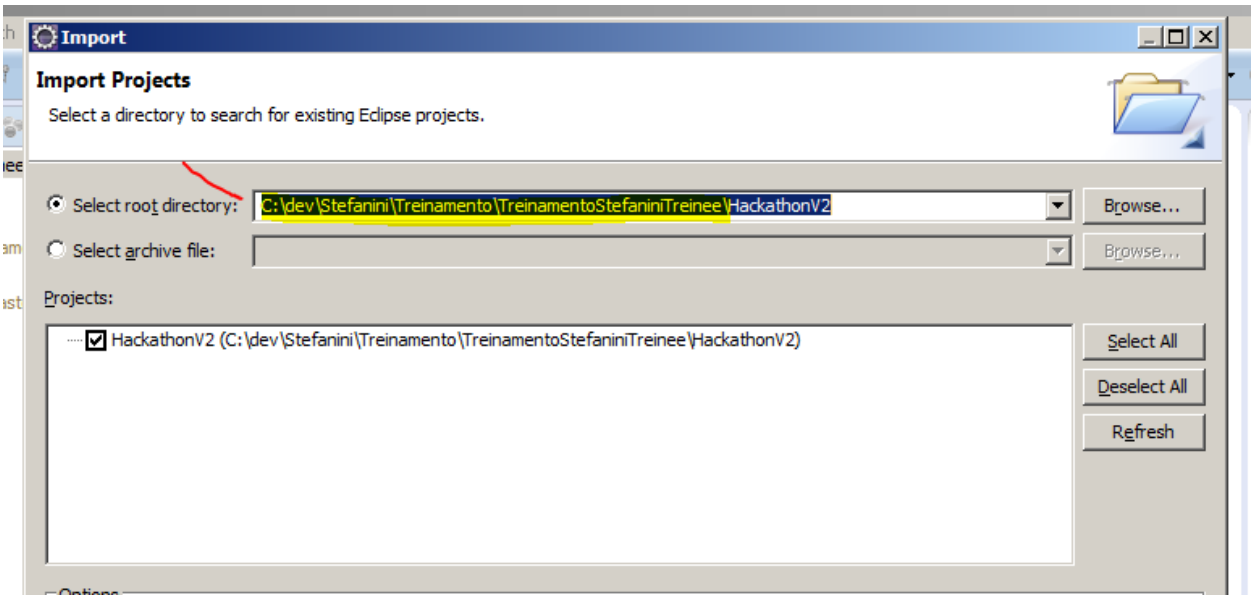
- Fazer um ***pull*** no repositório de Treinamentos (Git do Ivan)
    - Um novo projeto aparecerá: ***HackathonV2***
- Importar o projeto Web
    - Na view ***Package Explorer***
    - Clicar com o direiro -> Import...



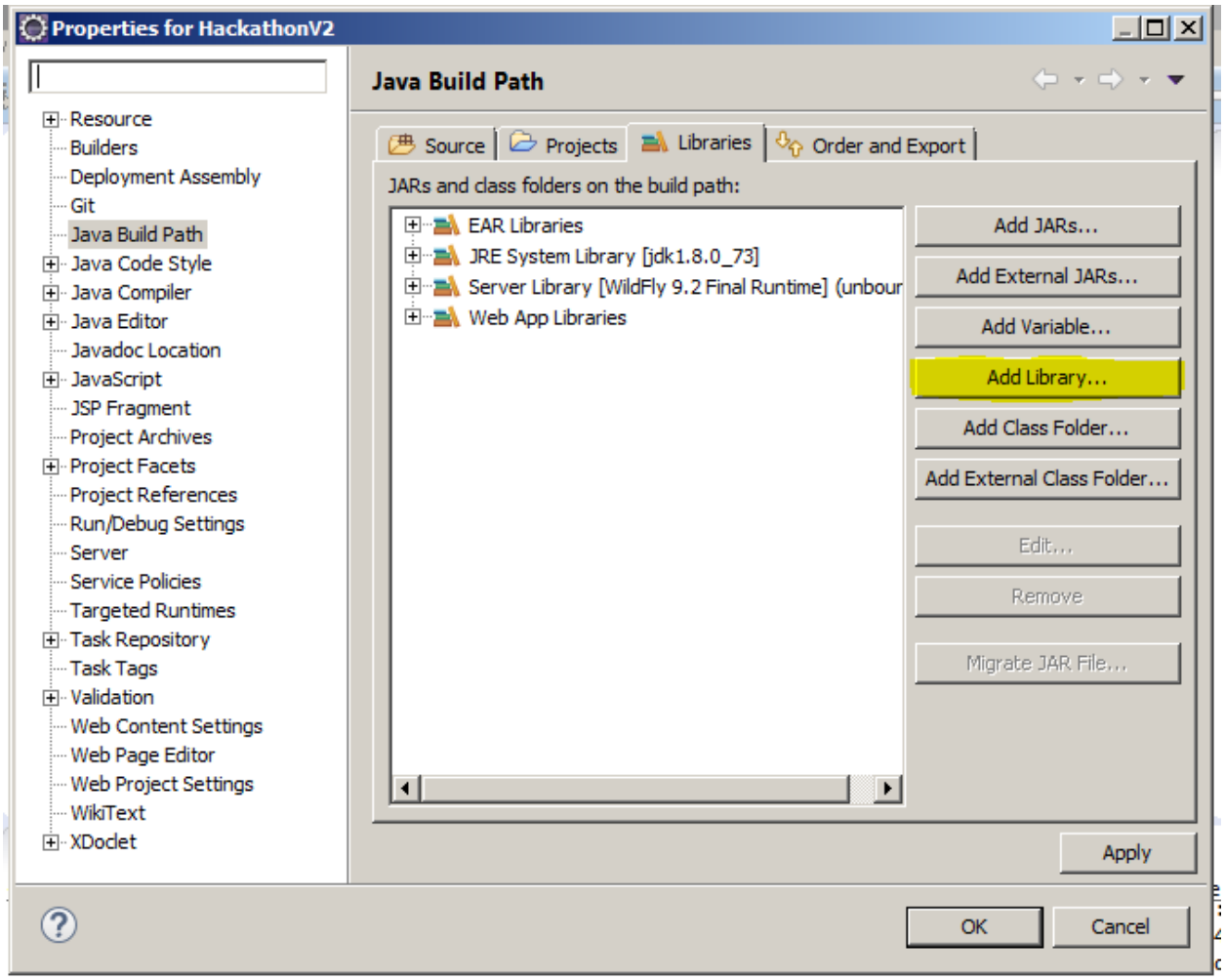
    - Na Janela que irá abrir, digitar: "***Existing Proje***"



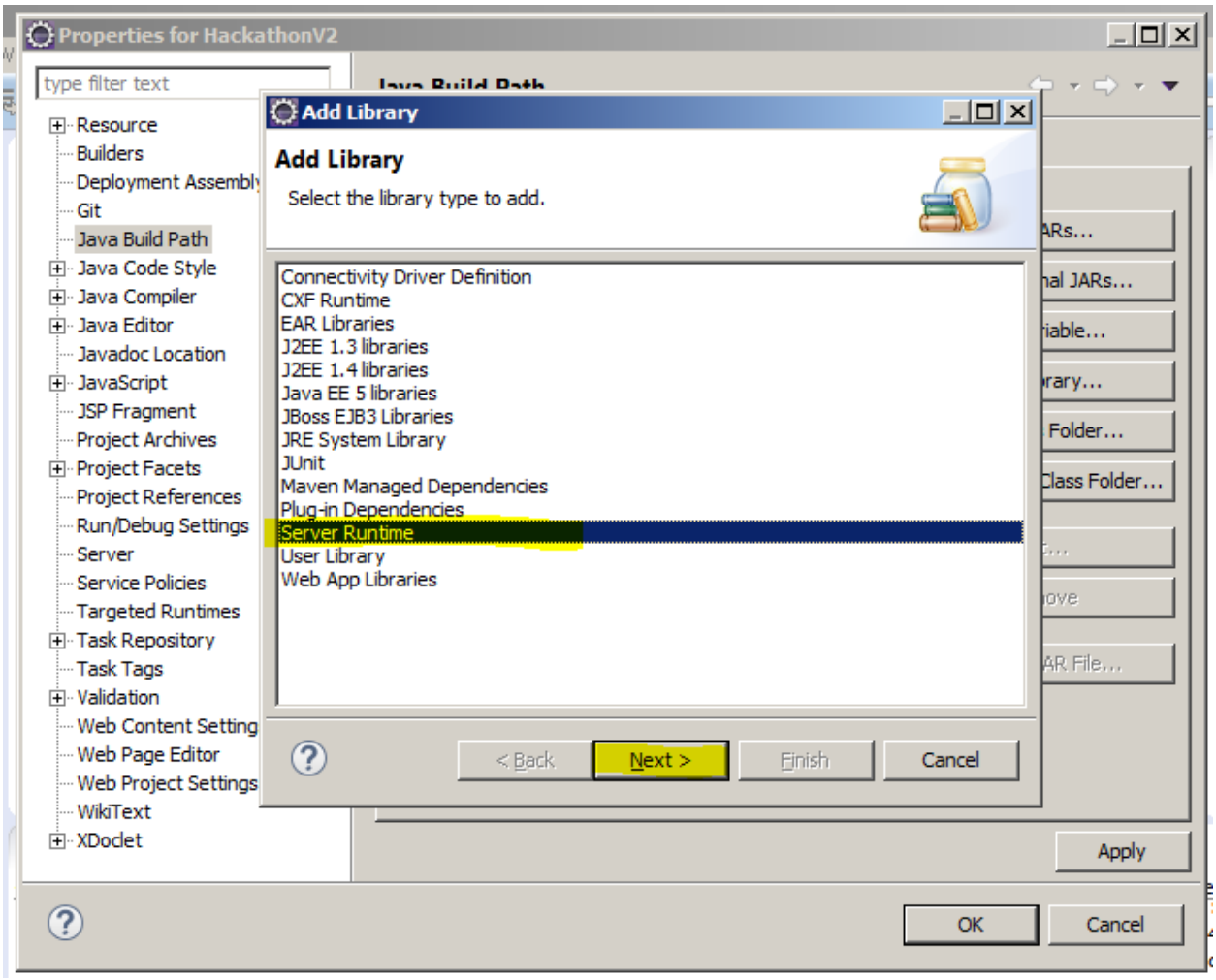
- Selecionar e ***Next***
- Na próxima janela
    - No campo **Select root directory**, selecionar a pasta **HackathonV2**, que estará dentro da pasta de TreinamentoStefaniniTreinee
        - Obs.: O caminho completo pode divergir do meu (Ivan), sem problemas.
    - Ao selecionar, clicar em ***Finish***



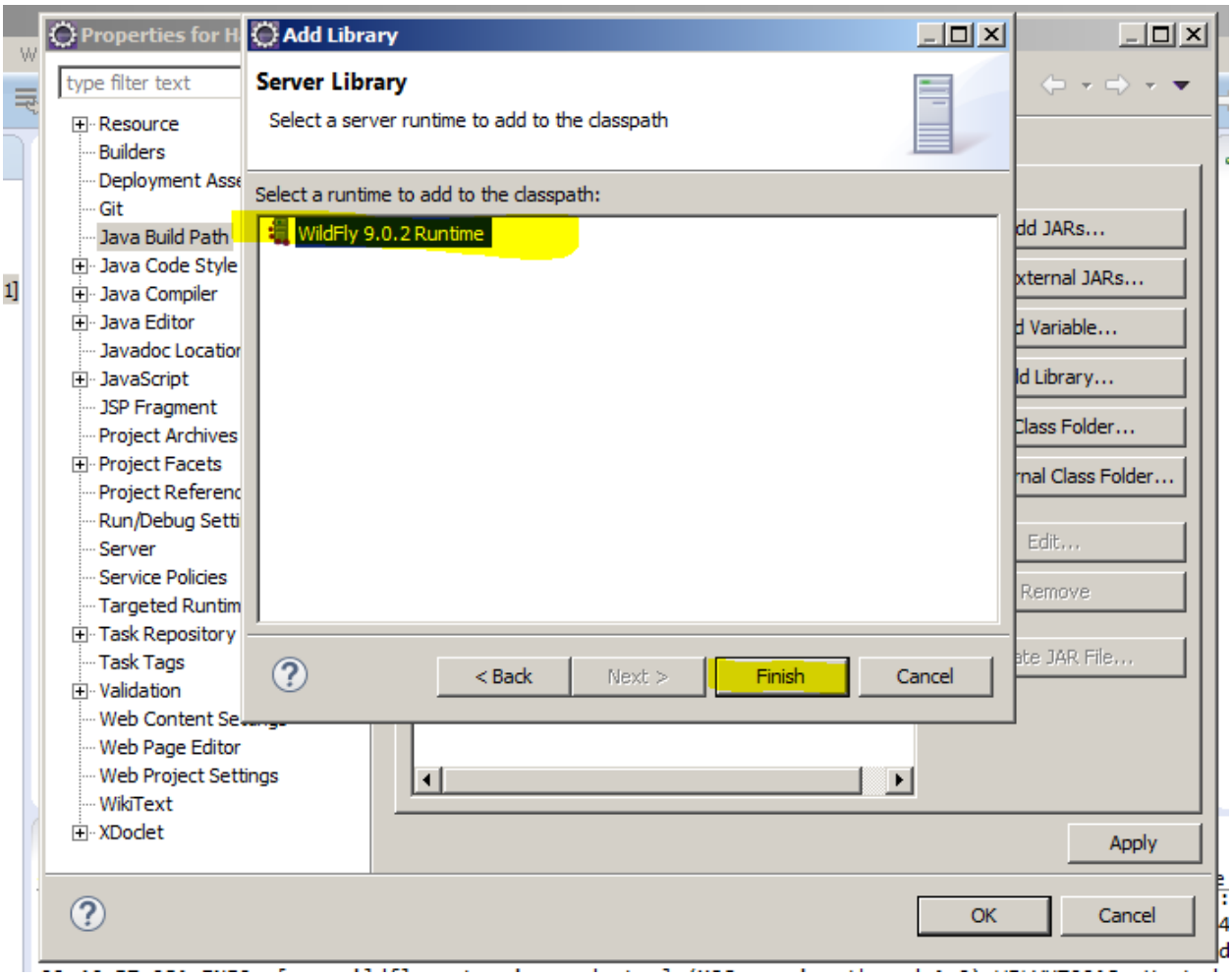
- Ao importar o projeto no Eclipse, será necessário adicionar o Servidor nas dependências do Projeto, para que o projeto tenha acesso à algumas bibliotecas necessárias. Estas serão fornecidas pelo próprio servidor de aplicação (Wildfly)
  - Clicar com o direito sobre o projeto
    - ***Build Path***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



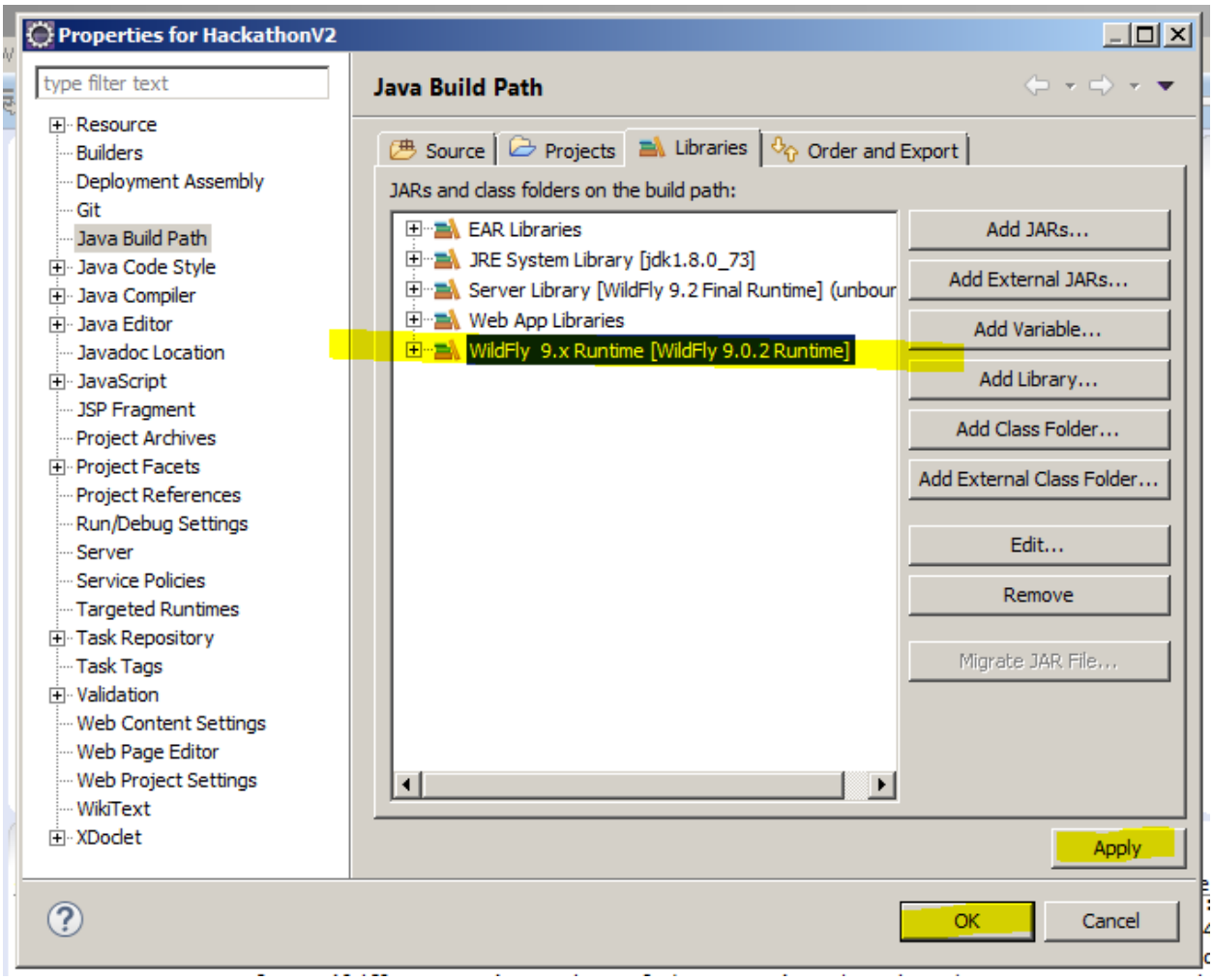
- Selecionar ***Server Runtime***, clicar em ***Next***



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



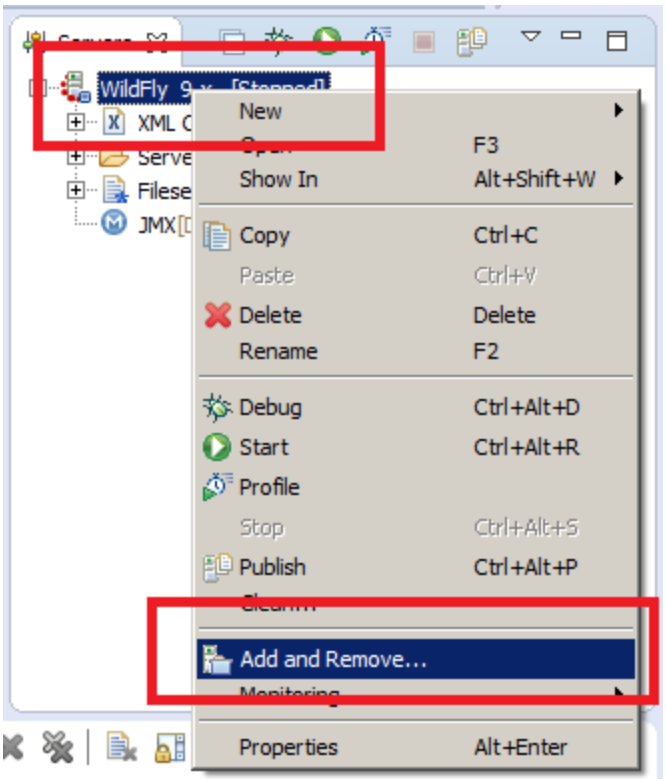
- O Servidor adicionado, deverá aparecer na lista de dependências.
- Clicar em ***Apply*** e em ***OK***



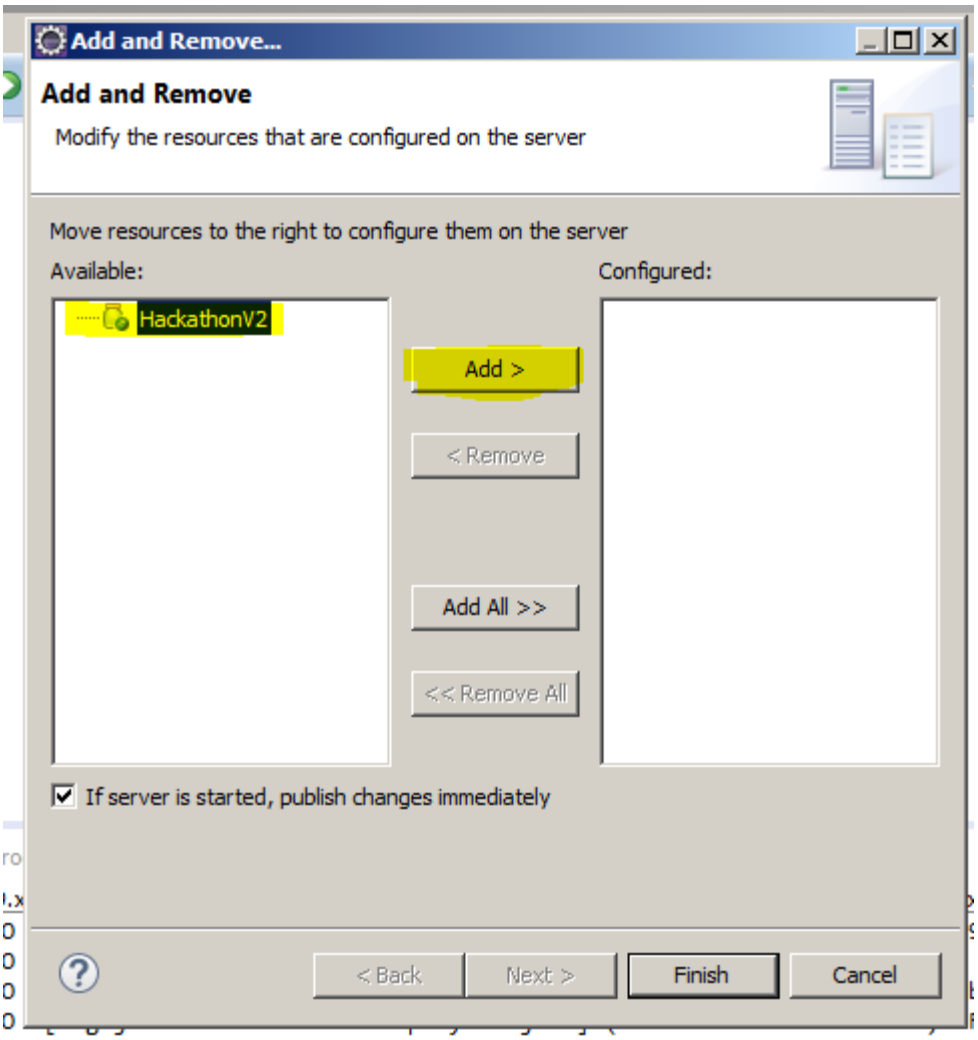
- Resultado esperado:
  - Projeto não deve mais apresentar ***Erros***

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

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

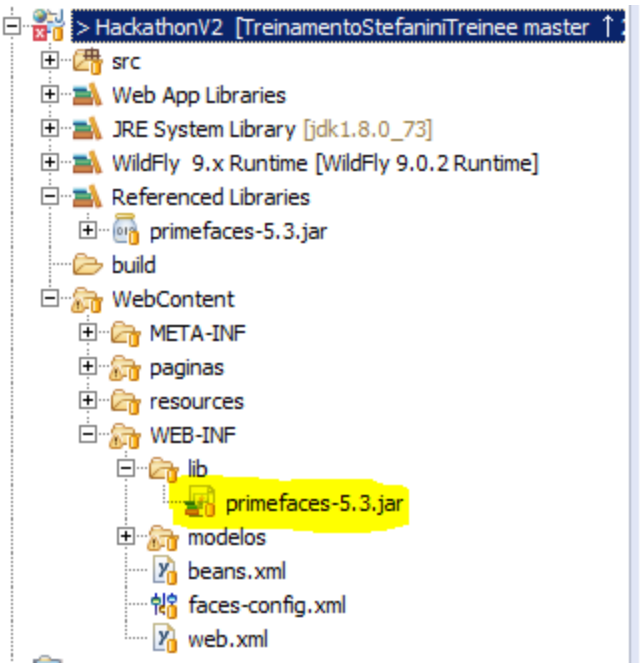


- Na janela que irá abrir, selecionar o Projeto e clicar em ***Add***
- Clicar em ***Finish***

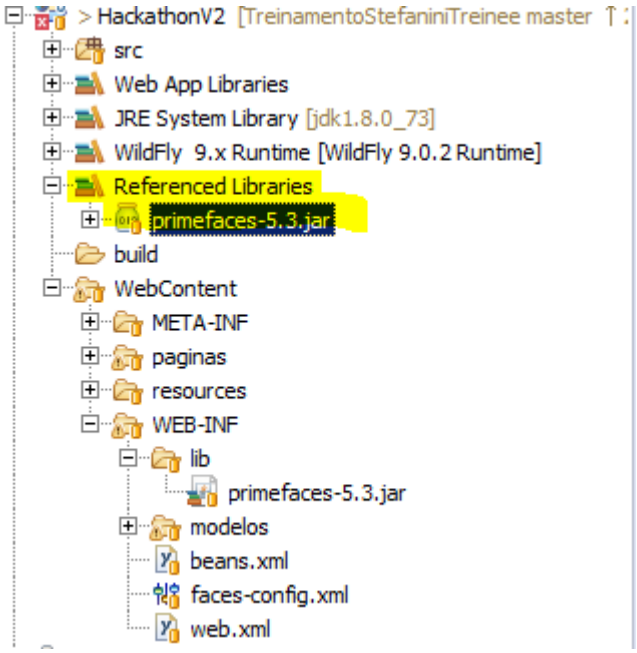


4 – Primefaces

- 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 cliar no icone "**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: JTASessionContext being used with JDBCTransactionFactory; 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/