

TP n°6 V n°2

Titre du TP : Servlet Context Listener

Date : 11/03/2024

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Prénom : Matthieu

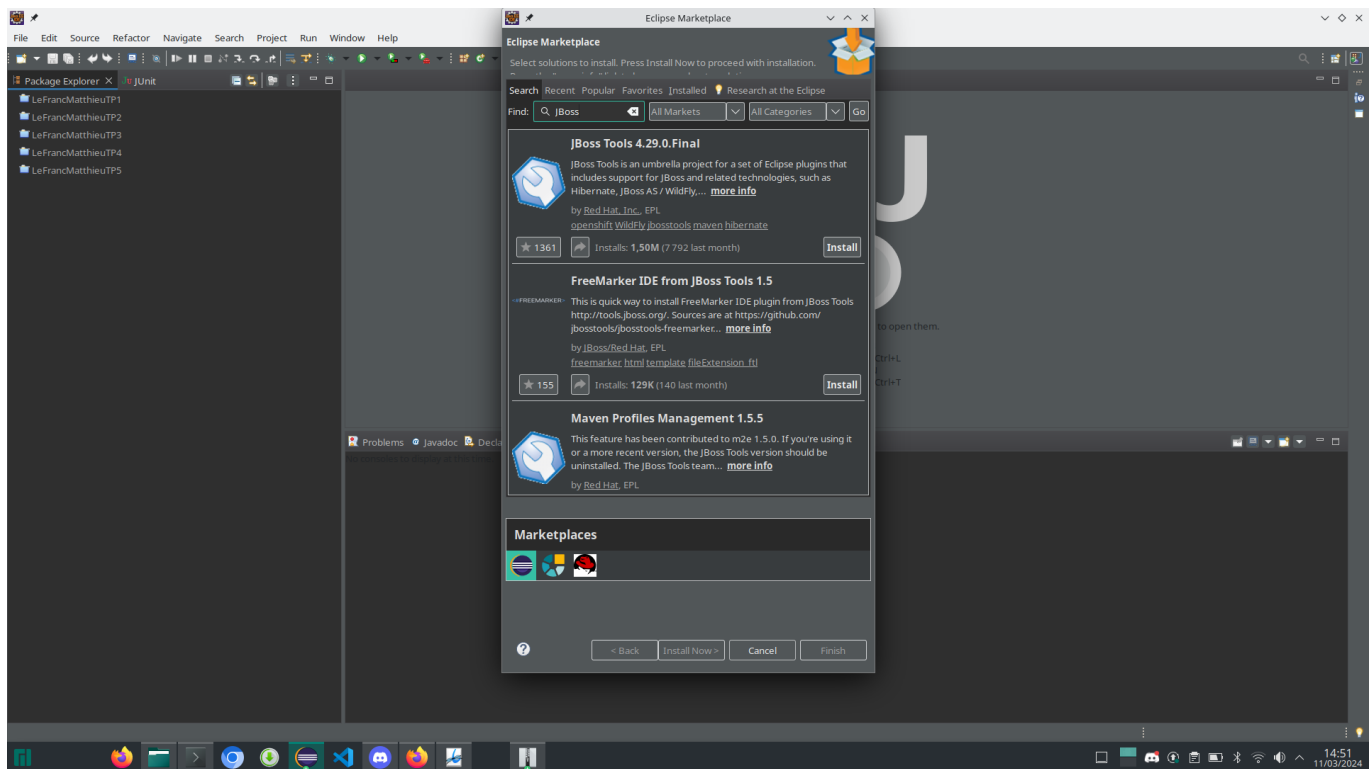
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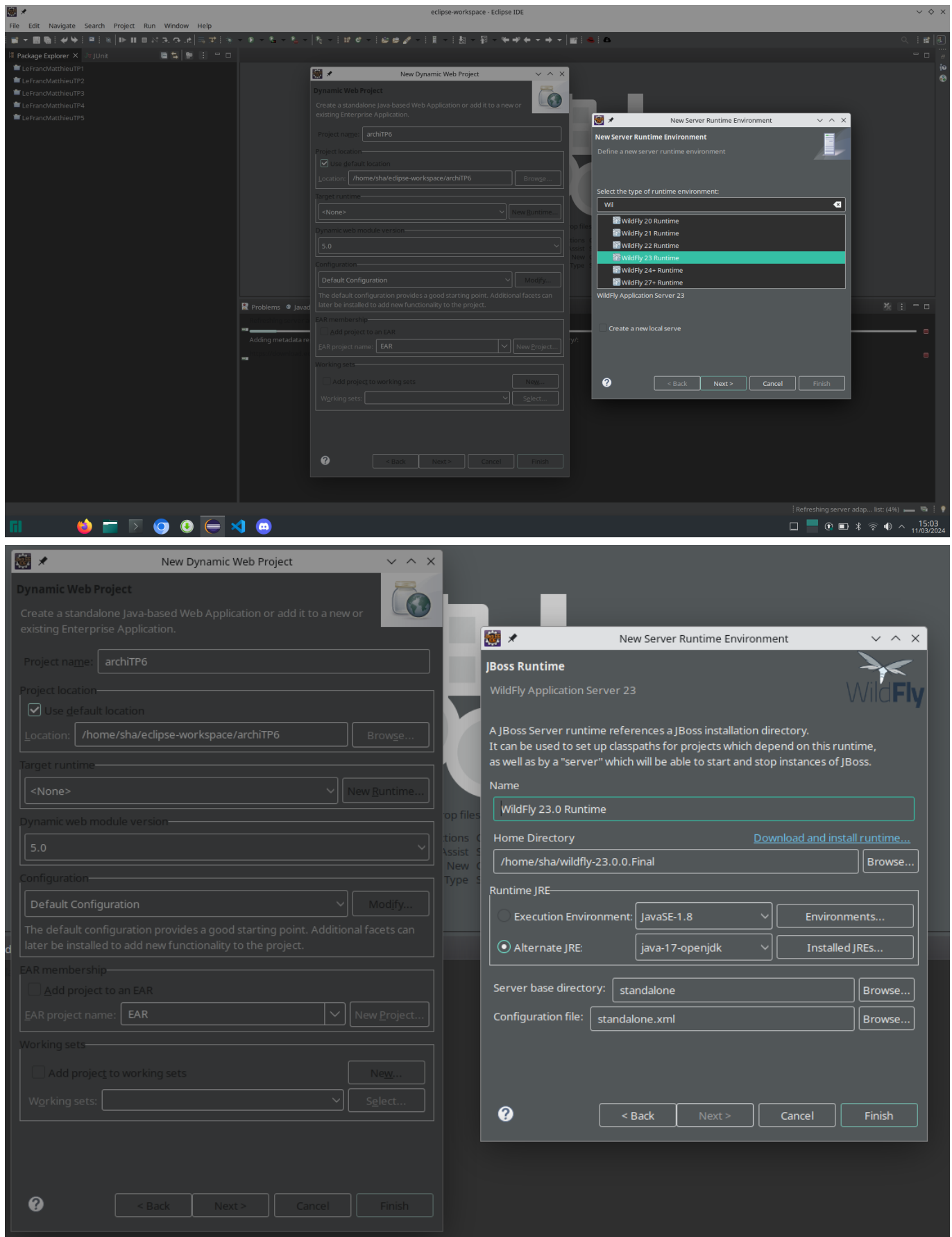
Explications

N'ayant pas pleinement compris le TP précédent (tp5) avec les injections, je n'avais pas réalisé la partie avec wildfly. J'ai donc créé un nouveau projet pour le tp de cette semaine où j'ai pu mettre en place wildfly et le ContextListener.

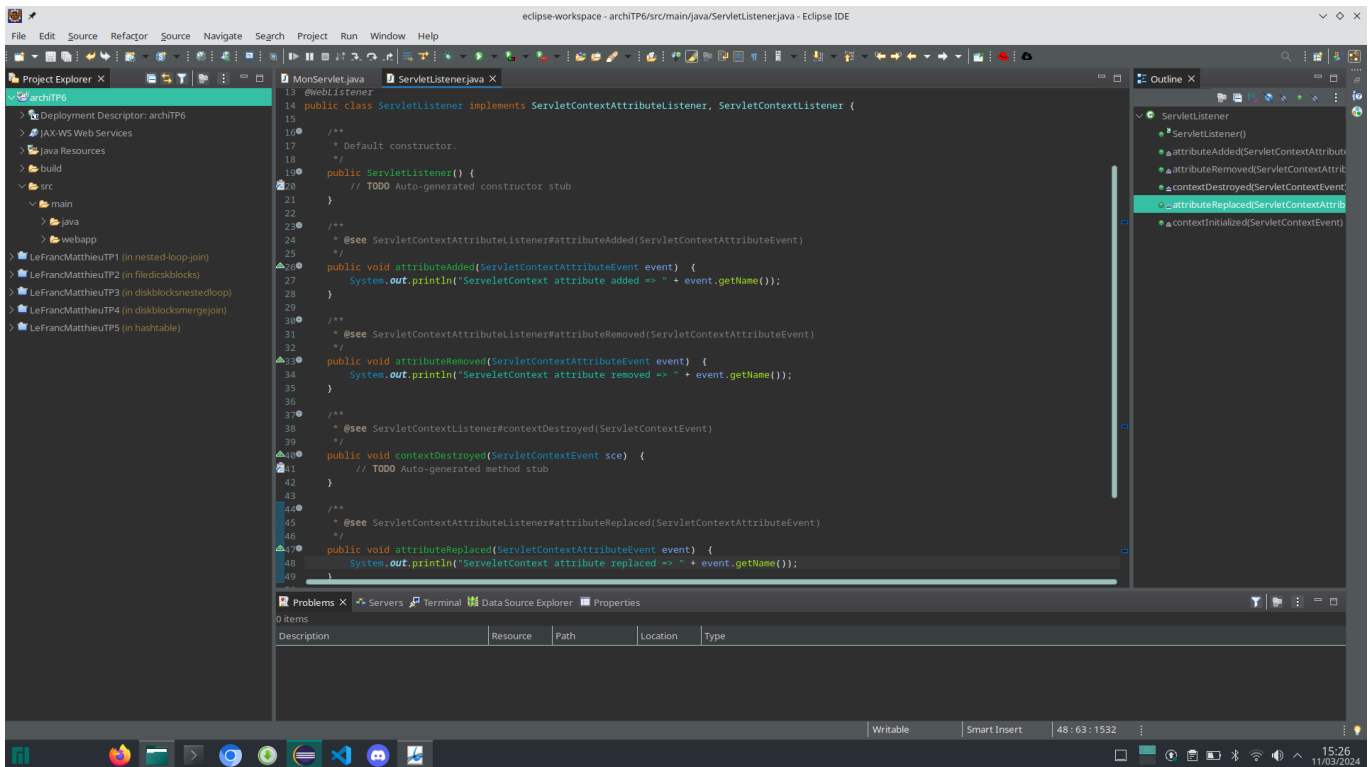
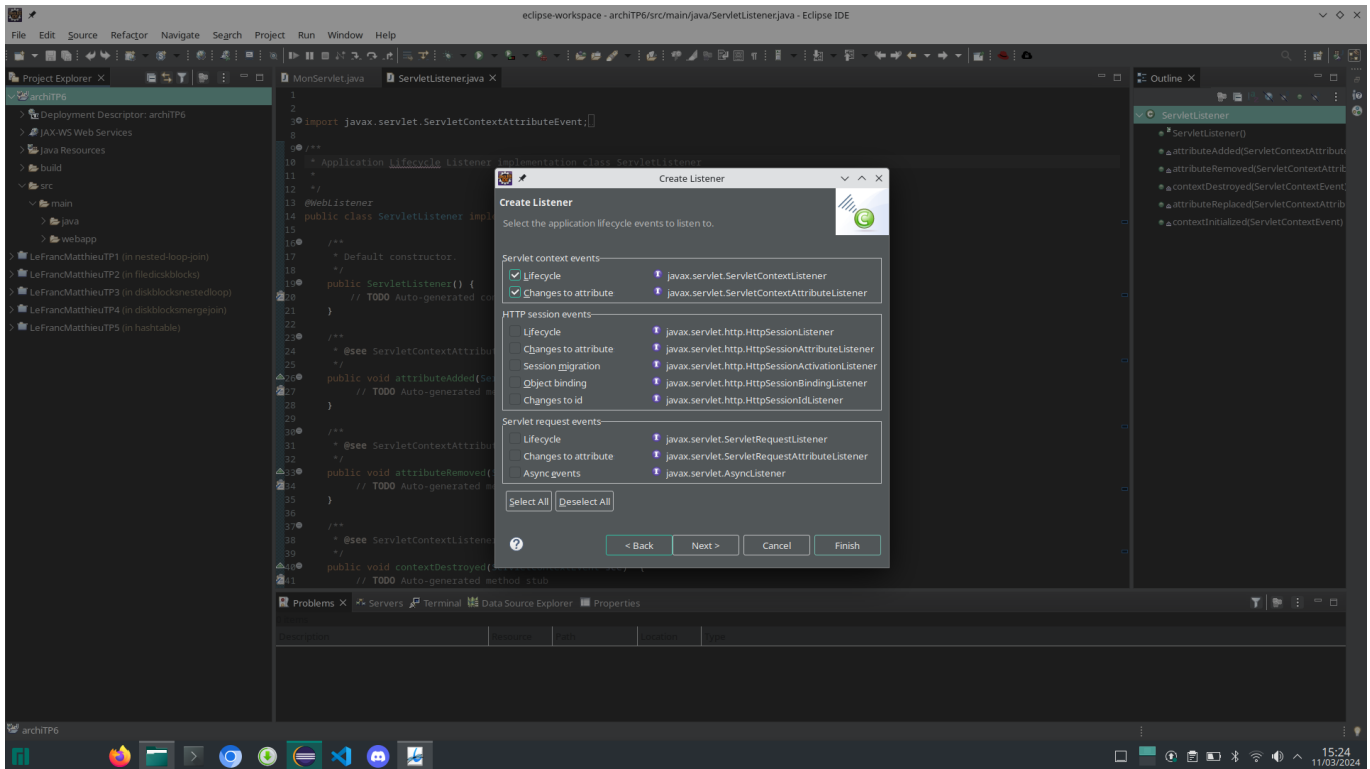
On commence donc par installer JBoss sur eclipse web pour avoir accès à wildfly.



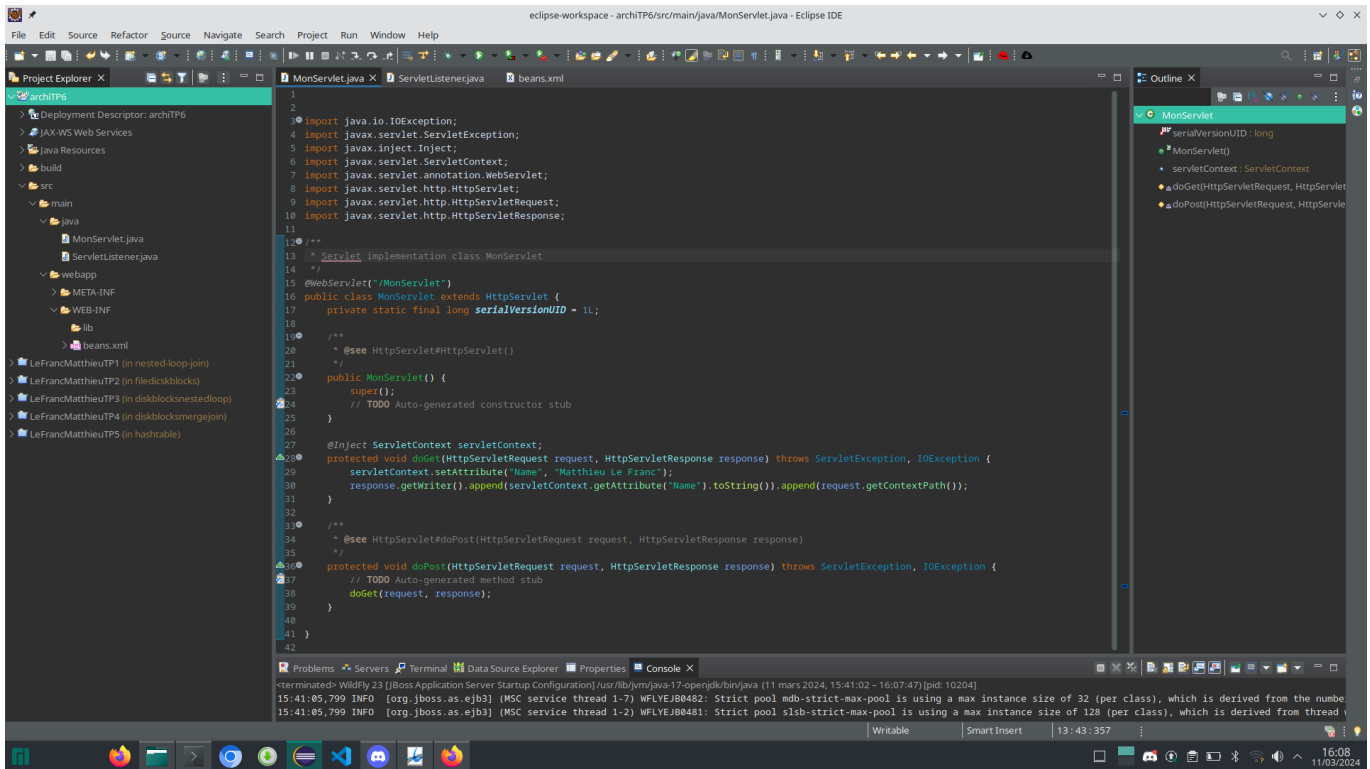
Ensuite on crée un nouveau projet web dynamique avec wildfly comme Target runtime.



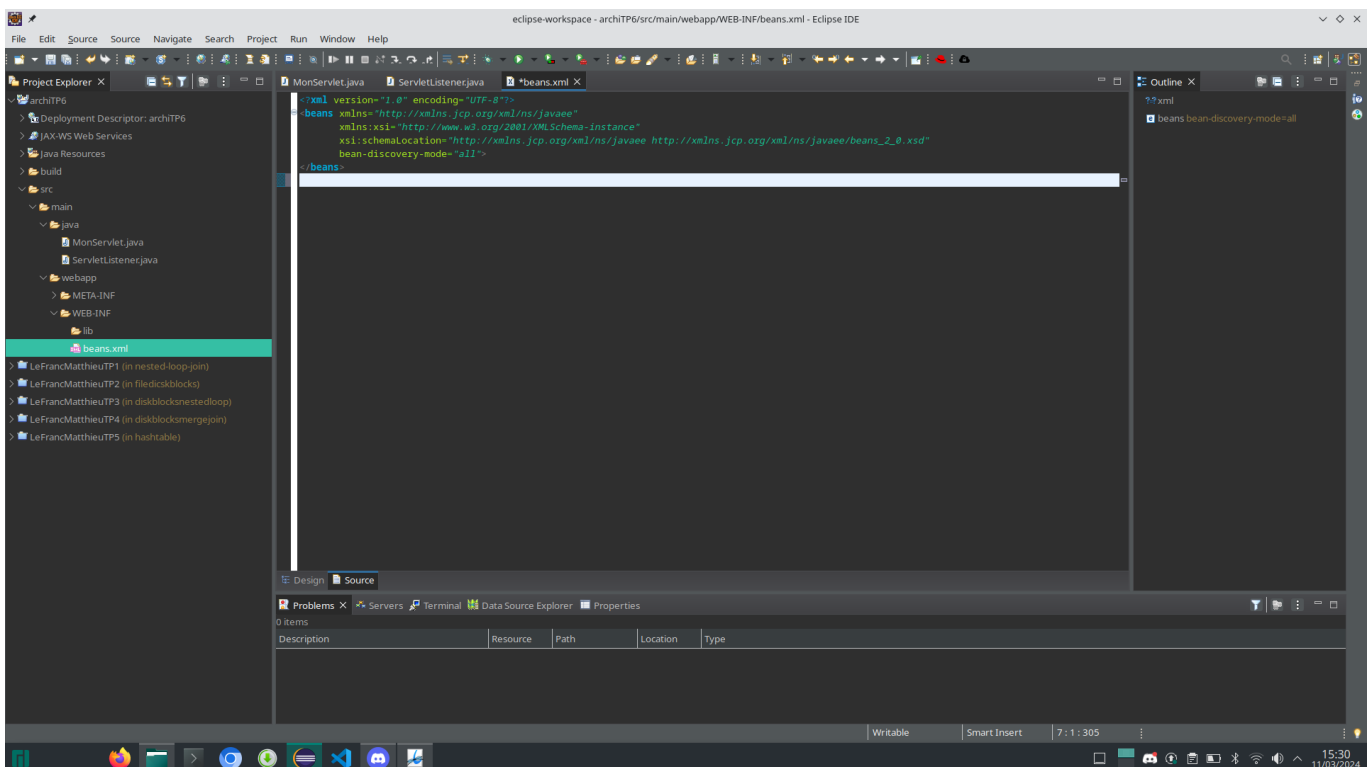
Maintenant on peut créer un servlet context listener. On crée une nouvelle classe qui implémente notamment `ServletContextListener` et on implémente quelques méthodes intéressantes.



On peut ensuite créer un Servlet qui va utiliser le context listener.



J'ajoute un fichier **beans.xml** dans le dossier **WEB-INF** pour activer CDI (Context and Dependency Injection) qui permet de gérer les dépendances et que ce soit déployable.



Maintenant on peut lancer le serveur wildfly. On voit que le serveur se lance bien mais qu'il nous reste à exécuter le script **add-user.sh** pour ajouter un utilisateur.

Project Explorer

archiTP6

Deployment Descriptor: archiTP6

JAX-WS Web Services

Java Resources

build

src

main

java

MonServlet.java

ServletListener.java

webapp

META-INF

WEB-INF

lib

beans.xml

LeFrancMatthieuTP1 (in nested-loop)

LeFrancMatthieuTP2 (in filedsblock)

LeFrancMatthieuTP3 (in diskblocknestedloop)

LeFrancMatthieuTP4 (in diskblockmergedjoin)

LeFrancMatthieuTP5 (in hashtable)

MonServlet.java

ServletListener.java

beans.xml

6 import javax.servlet.ServletContext

7 import javax.servlet.annotation.WebServlet

8 import javax.servlet.http.HttpServlet

9 import javax.servlet.http.HttpServletRequest

10 import javax.servlet.http.HttpServletResponse

11

12 /**

13 * Servlet implementation class MonServlet

14 */

15 @WebServlet("/MonServlet")

16 public class MonServlet extends HttpServlet

17 {

18 private static final long serialVersionUID = 1L;

19

20 /**

21 * @see HttpServlet#HttpServlet

22 */

23 public MonServlet() {

24 super();

25 // TODO Auto-generated constructor stub

26 }

27

28 @Inject ServletContext servletContext

29 protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

30 {

31 response.getWriter().append("servletContext: " + servletContext.getPathInfo());

32 }

33

34 /**

35 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

36 */

37 protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

38 {

39 // TODO Auto-generated method stub

40 doGet(request, response);

41 }

42 }

Run On Server

Select which server to use

How do you want to select the server?

☐ Choose an existing server

☒ Manually define a new server

Select the server type:

WildFly 22

WildFly 23

WildFly 24+

WildFly Application Server 23

Server's host name: localhost

Server name: WildFly 23

☐ Always use this server when running this project

< Back

Next >

Cancel

Finish

Welcome to WildFly Application Server

127.0.0.1:9990/error/index.html

Google

gmail

YouTube

Google Traduction

Courrier - Matthieu L...

Moodle Université Pa...

https://silice.informat...

Fouille de Données e...

formations:mastersca...

github

Accueil - Google Drive

Projects - GitLab

Ma GitHub Page

WildFly

Welcome to WildFly

Your WildFly Application Server is running.

However you have not yet added any users to be able to access the admin console.

To add a new user execute the `add-user.sh` script within the bin folder of your WildFly installation and enter the requested information.

By default the realm name used by WildFly is "ManagementRealm" this is already selected by default.

After you have added the user follow this link to Try Again.

15:37

11/03/2024

On exécute donc le script et on ajoute un utilisateur.

```
bin: zsh — Konsole
Nouvel onglet Scinder la vue
~/wildfly-23.0.0.Final/bin$ ./add-user.sh
gpg: avertissement : \ surnuméraire avant -
gpg: avertissement : \ surnuméraire avant -

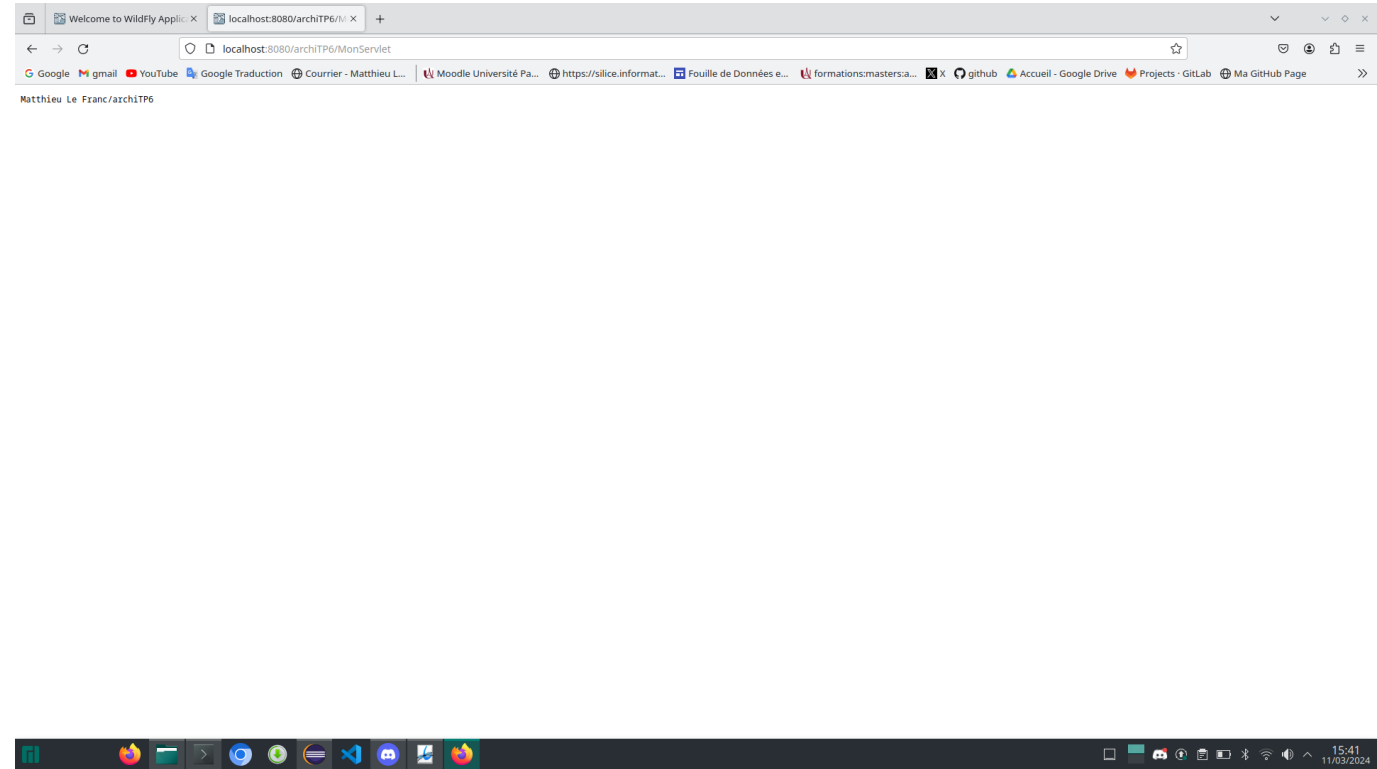
what type of user do you wish to add?
a) Management User (mgmt-users.properties)
b) Application User (application-users.properties)
(a):

Enter the details of the new user to add,
using realm 'ManagementRealm' as discovered from the existing property files.
Username : matthieu
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 :
WFLYDM0102: Password should have at least 1 non-alphanumeric symbol.
Are you sure you want to use the password entered yes/no? yes
Re-enter 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 'matthieu' for realm 'ManagementRealm'
Is this correct yes/no? yes
Added user 'matthieu' to file '/home/sha/wildfly-23.0.0.Final/standalone/configuration/mgmt-users.properties'
Added user 'matthieu' to file '/home/sha/wildfly-23.0.0.Final/domain/configuration/mgmt-users.properties'
Added user 'matthieu' with groups to file '/home/sha/wildfly-23.0.0.Final/standalone/configuration/mgmt-groups.properties'
Added user 'matthieu' with groups to file '/home/sha/wildfly-23.0.0.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="bJNld3RGYXA=" />

~/wildfly-23.0.0.Final/bin$
```

Maintenant en relançant le serveur et en allant à l'url [/archiTP6/MonServlet](http://localhost:8080/archiTP6/MonServlet) on voit que le context listener a bien été appelé.

```
eclipse-workspace - archiTP6/src/main/java/MonServlet.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
Project Explorer Outline
archiTP6
Deployment Descriptor: archiTP6
JAX-WS Web Services
Java Resources
build
src
main
java
MonServlet.java
ServletListener.java
webapp
META-INF
WEB-INF
lib
beans.xml
MonServlet.java
ServletListener.java
beans.xml
Problems Servers Terminal Data Source Explorer Properties Console
WildFly 23 [JBoss Application Server Startup Configuration] /usr/lib/jvm/java-17-openjdk/bin/java (11 mars 2024, 15:41:02) [pid: 10204]
15:41:05,799 INFO [org.jboss.as.ejb3] (MSC service thread 1-7) WFLYEJB8482: Strict pool mdb-strict-max-pool is using a max instance size of 32 (per class), which is derived from the num
15:41:05,799 INFO [org.jboss.as.ejb3] (MSC service thread 1-2) WFLYEJB8481: Strict pool slsb-strict-max-pool is using a max instance size of 128 (per class), which is derived from threa
15:41:06,953 INFO [org.wildfly.extension.undertow] (MSC service thread 1-1) WFLYUT0006: Undertow HTTP listener default listening on 127.0.0.1:8080
15:41:06,073 INFO [org.jboss.as.ejb3] (MSC service thread 1-8) WFLYEJB8492: Jakarta Enterprise Beans subsystem suspension complete
15:41:06,138 INFO [org.jboss.as.connector.subsystems.datasources] (MSC service thread 1-2) WFLYJCA0001: Bound data source [java:jboss/datasources/ExampleDS]
15:41:06,393 INFO [org.jboss.as.patching] (MSC service thread 1-3) WFLYPAT0050: WildFly Full cumulative patch ID is: base, one-off patches include: none
15:41:06,412 INFO [org.jboss.as.domain.management.security] (MSC service thread 1-7) WFLYDM0111: Keystore /home/sha/wildfly-23.0.0.Final/standalone/configuration/application.keystore no
15:41:06,412 INFO [org.jboss.as.server.deployment.scanner] (MSC service thread 1-1) WFLYDS0013: Started FileSystemDeploymentService for directory /home/sha/wildfly-23.0.0.Final/standalo
15:41:06,421 INFO [org.jboss.as.server.deployment] (MSC service thread 1-4) WFLYSRV0027: Starting deployment of 'archiTP6.war' (runtime-name: 'archiTP6.war')
15:41:06,441 INFO [org.wildfly.extension.undertow] (MSC service thread 1-7) WFLYUT0006: Undertow HTTPS listener https listening on 127.0.0.1:8443
15:41:06,528 INFO [org.jboss.ws.common.management] (MSC service thread 1-8) JWS022052: Starting JBossWS 5.4.2.Final (Apache CXF 3.3.9)
15:41:06,998 INFO [org.jboss.weld.deployer] (MSC service thread 1-5) WFLYELD0003: Processing weld deployment archiTP6.war
15:41:07,119 INFO [org.hibernate.validator.internal.util.Version] (MSC service thread 1-5) HV000001: Hibernate Validator 6.0.22.Final
15:41:07,469 INFO [io.jaegertracing.internal.JaegerTracer] (MSC service thread 1-5) No shutdown hook registered: Please call close() manually on application shutdown.
15:41:07,552 INFO [org.jboss.weld.version] (MSC service thread 1-4) WELD-000900: 3.1.6 (Final)
15:41:07,776 INFO [org.infinispan.CONTAINER] (ServerService Thread Pool -- 78) ISPN000128: Infinispan version: Infinispan 'Corona Extrs' 11.0.9.Final
15:41:07,842 INFO [org.infinispan.CONFIG] (MSC service thread 1-4) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be p
15:41:07,842 INFO [org.infinispan.CONFIG] (MSC service thread 1-4) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be p
15:41:07,955 INFO [org.infinispan.PERSISTENCE] (ServerService Thread Pool -- 78) ISPN000556: Starting user marshaller 'org.wildfly.clustering.infinispan.spi.marshalling.InfinispanProtoS
15:41:08,234 INFO [org.jboss.as.clustering.infinispan] (ServerService Thread Pool -- 78) WFLYCLINF0002: Started http-remoting-connector cache from ejb container
15:41:08,420 INFO [stdout] (ServerService Thread Pool -- 79) ServletContext attribute added => org.apache.jasper.runtime.JspApplicationContextImpl
15:41:08,422 INFO [stdout] (ServerService Thread Pool -- 79) ServletContext attribute replaced => org.apache.jasper.runtime.JspApplicationContextImpl
15:41:08,428 INFO [stdout] (ServerService Thread Pool -- 79) ServletContext attribute added => org.jboss.weld.module.web.servlet.WeldInitialListener
15:41:08,458 INFO [org.wildfly.extension.undertow] (ServerService Thread Pool -- 79) WFLYUT0021: Registered web context: 'archiTP6' for server 'default-server'
15:41:08,534 INFO [org.jboss.as.server] (ServerService Thread Pool -- 45) WFLYSRV0010: Deployed 'archiTP6.war' (runtime-name: 'archiTP6.war')
15:41:08,592 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0212: Resuming server
15:41:08,596 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: WildFly Full 23.0.0.Final (WildFly Core 15.0.0.Final) started in 688ms - Started 454 of 654 services (349 service
15:41:08,598 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0060: HTTP management interface listening on http://127.0.0.1:9990/management
15:41:08,599 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0051: Admin console listening on http://127.0.0.1:9990
15:41:27,921 INFO [stdout] (default task-1) ServletContext attribute added => Name
```



Voici le diagramme de séquence de l'implémentation du context listener.

