

# Architecture des Systèmes d'Information

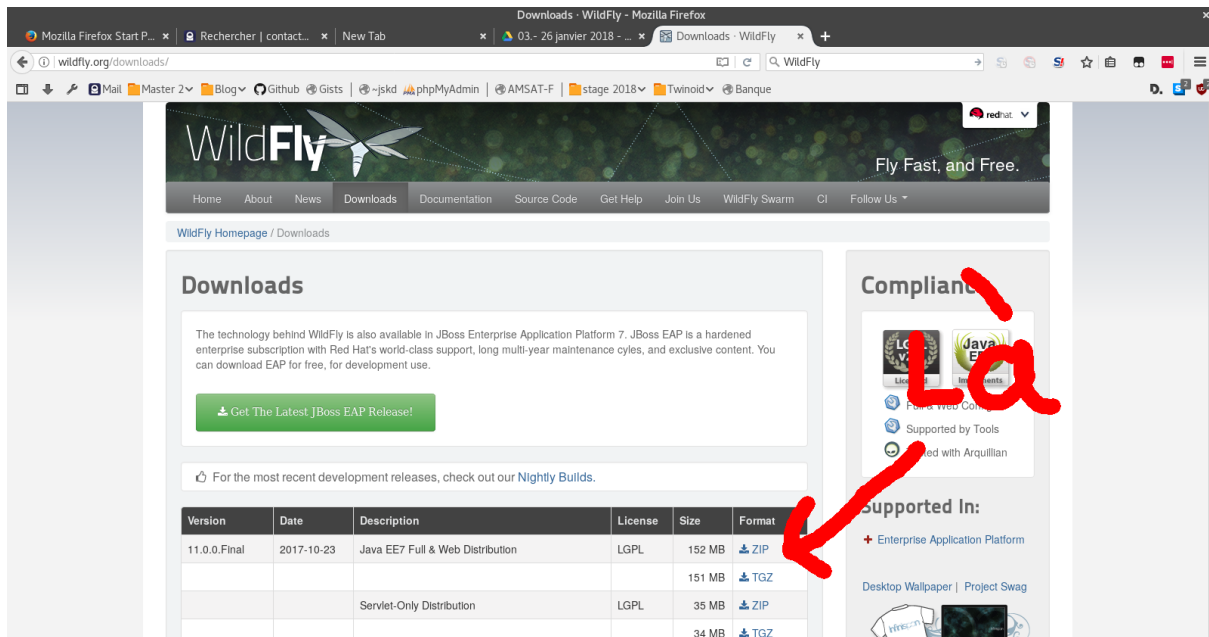
## TP1 WildFly

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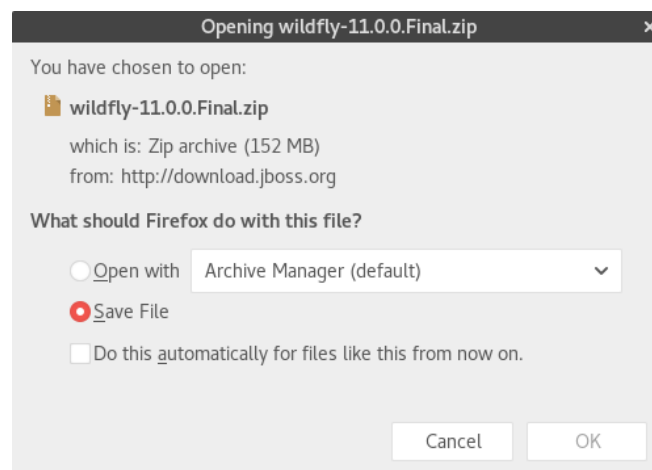
### 1) Installation

URL: <http://wildfly.org/downloads/>

-> Java EE7 Full & Web Distribution puis choisir ZIP



Save file



Unzip

```
jskd@jskd-laptop: ~/Documents/ArchSI/TP1
~/Documents/ArchSI/TP1 0f2da5d master 88% 15:09:54
> unzip wildfly-11.0.0.Final.zip
```

Go to root of wildfly

```
jskd@jskd-laptop: ~/Documents/ArchSI/TP1
~/Documents/ArchSI/TP1 0f2da5d master 88% 15:09:54
> cd wildfly-11.0.0.Final/
```

Launch standalone.sh

```
jskd@jskd-laptop: ~/Documents/ArchSI/TP1/wildfly-11.0.0.Final
.../Documents/ArchSI/TP1/wildfly-11.0.0.Final 87% 15:14:22
> ./bin/standalone.sh
```

```
./bin/standalone.sh
fault-server/https-listener=https' is deprecated, and may be removed in future version. See the attribute description in the output of the read-resource-description operation to learn more about the
deprecation.
15:14:45,485 INFO [org.jboss.as.server] (Controller Boot Thread) WFLYSRV0039: Creating http management service using socket-binding (management-http)
15:14:45,501 INFO [org.xnio] (MSC service thread 1-6) XNIO version 3.5.4.Final
15:14:45,509 INFO [org.xnio.nio] (MSC service thread 1-6) XNIO NIO Implementation Version 3.5.4.Final
15:14:45,577 INFO [org.jboss.as.clustering.infinispan] (ServerService Thread Pool -- 42) WFLYCLINF0001: Activating Infinispan subsystem.
15:14:45,578 INFO [org.wildfly.extension.io] (ServerService Thread Pool -- 41) WFLYIO0001: Worker 'default' has auto-configured to 8 core threads with 64 task threads based on your 4 available proce
ssors
15:14:45,578 INFO [org.jboss.as.jaxrs] (ServerService Thread Pool -- 43) WFLYRS0016: RESTEasy version 3.0.24.Final
15:14:45,609 INFO [org.jboss.as.connector.subsystems.datasources] (ServerService Thread Pool -- 36) WFLYJCA0004: Deploying JDBC-compliant driver class org.h2.Driver (version 1.4)
15:14:45,617 INFO [org.jboss.as.jsf] (ServerService Thread Pool -- 48) WFLYJSF0007: Activated the following JSF Implementations: [main]
15:14:45,623 INFO [org.jboss.remoting] (MSC service thread 1-6) JBoss Remoting version 5.0.5.Final
15:14:45,681 INFO [org.jboss.as.naming] (ServerService Thread Pool -- 50) WFLYNAM0001: Activating Naming Subsystem
15:14:45,691 INFO [org.jboss.as.webservices] (ServerService Thread Pool -- 60) WFLYWS0002: Activating WebServices Extension
15:14:45,693 WARN [org.jboss.as.txn] (ServerService Thread Pool -- 58) WFLYTX0013: The node-identifier attribute on the /subsystem=transactions is set to the default value. This is a danger for env
ironments running multiple servers. Please make sure the attribute value is unique.
15:14:45,709 INFO [org.jboss.as.connector] (MSC service thread 1-4) WFLYJCA0009: Starting JCA Subsystem (WildFly/IronJacamar 1.4.6.Final)
15:14:45,745 INFO [org.jboss.as.naming] (MSC service thread 1-1) WFLYNAM0003: Starting Naming Service
15:14:45,727 INFO [org.jboss.as.connector.deployers.jdbc] (MSC service thread 1-4) WFLYJCA0018: Started Driver service with driver-name = h2
15:14:45,722 INFO [org.jboss.as.security] (ServerService Thread Pool -- 57) WFLYSEC0002: Activating Security Subsystem
15:14:45,755 INFO [org.jboss.as.mail.extension] (MSC service thread 1-5) WFLYMAIL0001: Bound mail session [java:jboss/mail/Default]
15:14:45,772 INFO [org.jboss.as.security] (MSC service thread 1-1) WFLYSEC0001: Current PicketBox version=5.0.2.Final
15:14:45,795 INFO [org.wildfly.extension.undertow] (MSC service thread 1-8) WFLYUT0003: Undertow 1.4.18.Final starting
15:14:46,073 INFO [org.jboss.as.ejbs] (MSC service thread 1-4) WFLYEBJ00482: Strict pool mdb-strict-max-pool is using a max instance size of 16 (per class), which is derived from the number of CPUs
on this host.
15:14:46,074 INFO [org.jboss.as.ejbs] (MSC service thread 1-3) WFLYEBJ00481: Strict pool slsb-strict-max-pool is using a max instance size of 64 (per class), which is derived from thread worker pool
sizing.
15:14:46,183 INFO [org.wildfly.extension.undertow] (MSC service thread 1-1) WFLYUT0012: Started server default-server.
15:14:46,187 INFO [org.wildfly.extension.undertow] (ServerService Thread Pool -- 59) WFLYUT0014: Creating file handler for path '/home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.Final/welcome-content
' with options [directory-listing: 'false', follow-symlink: 'false', case-sensitive: 'true', safe-symlink-paths: '[]']
15:14:46,189 INFO [org.wildfly.extension.undertow] (MSC service thread 1-4) WFLYUT0018: Host default-host starting
15:14:46,294 INFO [org.wildfly.extension.undertow] (MSC service thread 1-1) WFLYUT0006: Undertow HTTP listener default listening on 127.0.0.1:8080
15:14:46,334 INFO [org.jboss.as.ejbs] (MSC service thread 1-4) WFLYEBJ00493: EJB subsystem suspension complete
15:14:46,507 INFO [org.jboss.as.controller.subsystems.datasources] (MSC service thread 1-3) WFLYJCA0001: Bound data source [java:jboss/datasources/ExampleDS]
15:14:46,833 INFO [org.jboss.as.patching] (MSC service thread 1-6) WFLYPAT0050: WildFly Full cumulative patch ID is: base, one-off patches include: none
15:14:46,866 WARN [org.jboss.as.domain.management.security] (MSC service thread 1-1) WFLYDM0111: Keystore /home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.Final/standalone/configuration/application.k
eystore not found, it will be auto generated on first use with a self signed certificate for host localhost
15:14:46,900 INFO [org.jboss.as.server.deployment.scanner] (MSC service thread 1-4) WFLYDS0013: Started FileSystemDeploymentService for directory /home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.Fina
l/standalone/deployments
15:14:47,124 INFO [org.wildfly.extension.undertow] (MSC service thread 1-3) WFLYUT0006: Undertow HTTPS listener https listening on 127.0.0.1:8443
15:14:47,217 INFO [org.jboss.ws.common.management] (MSC service thread 1-7) JBWS022052: Starting JBossWS 5.1.9.Final (Apache CXF 3.1.12)
15:14:47,300 INFO [org.jboss.as.server] (Controller Boot Thread) WFLYSRV0212: Resuming server
15:14:47,303 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0060: Http management interface listening on http://127.0.0.1:9990/management
15:14:47,303 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0051: Admin console listening on http://127.0.0.1:9990
15:14:47,304 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: WildFly Full 11.0.0.Final (WildFly Core 3.0.8.Final) started in 4908ms - Started 292 of 553 services (347 services are lazy, p
assive or on-demand)
```

Check start success (time 4 908ms)

```
Admin console listening on http://127.0.0.1:9990
WildFly Full 11.0.0.Final (WildFly Core 3.0.8.Final) started in 4908ms - Started 292 of 553 services
```

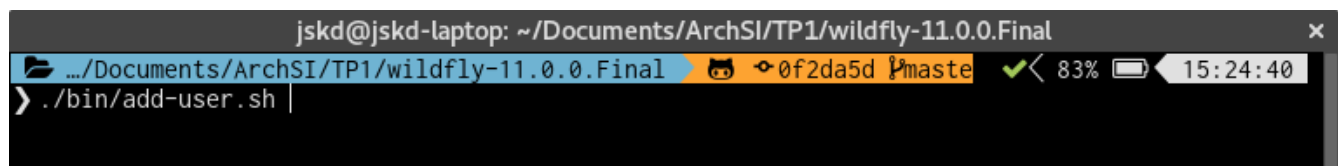
## 2) Add User

URL: <http://127.0.0.1:9990>



Error: No added users

Launch `add-user.sh`




```
jskd@jskd-laptop: ~/Documents/ArchSI/TP1/wildfly-11.0.0.Final
.../Documents/ArchSI/TP1/wildfly-11.0.0.Final 0f2da5d 15:28:51
> ./bin/add-user.sh

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.
Username : ManagementUser
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 :
WFLYDM0099: Password should have at least 8 characters!
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 'ManagementUser' for realm 'ManagementRealm'
Is this correct yes/no? yes
Added user 'ManagementUser' to file '/home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.Final/standalone/configuration/mgmt-users.properties'
Added user 'ManagementUser' to file '/home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.Final/domain/configuration/mgmt-users.properties'
Added user 'ManagementUser' with groups to file '/home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.Final/standalone/configuration/mgmt-groups.properties'
Added user 'ManagementUser' with groups to file '/home/jskd/Documents/ArchSI/TP1/wildfly-11.0.0.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 EJB calls.
yes/no? yes
To represent the user add the following to the server-identities definition <secret value="MD5yMw==" />
.../Documents/ArchSI/TP1/wildfly-11.0.0.Final 0f2d 59.01 81% 15:30:10
>
```

Go to: <http://127.0.0.1:9990> and enter your login

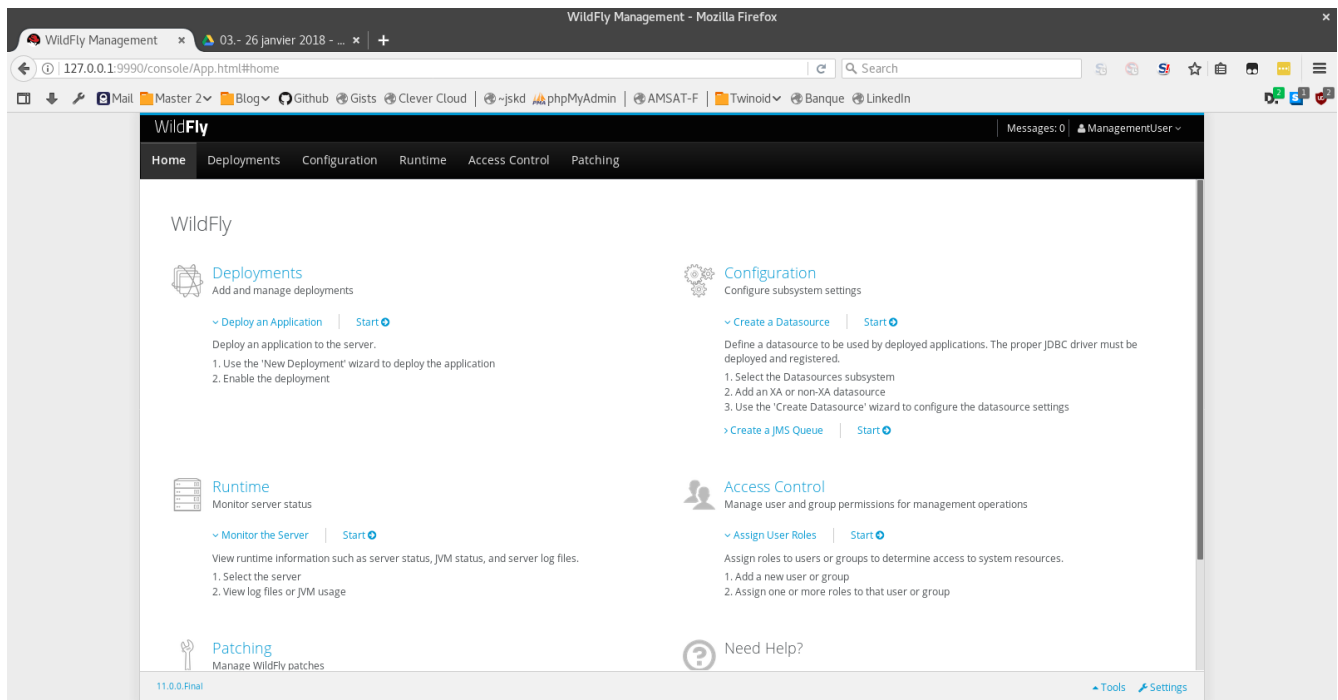
Authentication Required

 http://127.0.0.1:9990 is requesting your username and password. The site says: "ManagementRealm"

User Name:

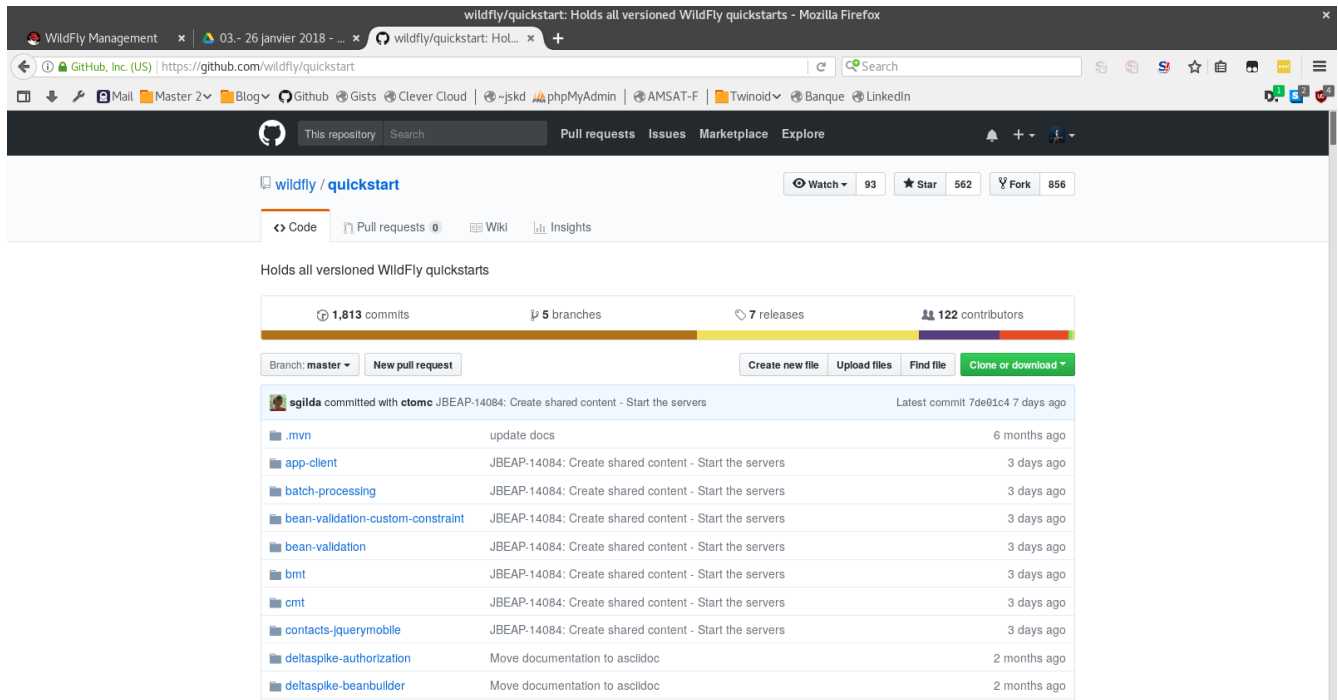
Password:

Success, you can see the interface

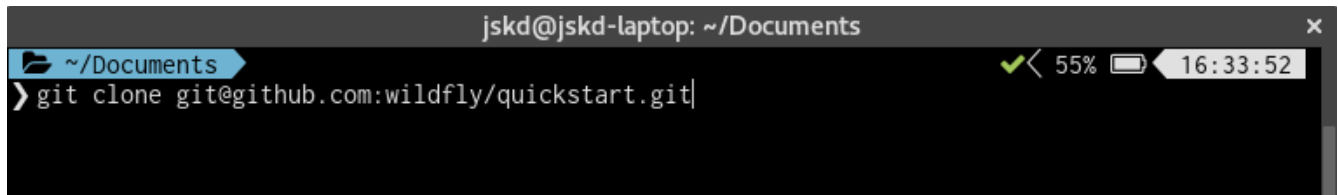


3) Add example (Hello world)

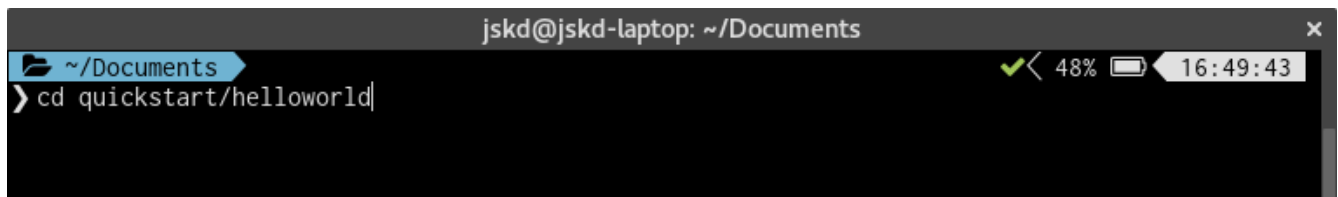
Go to <https://github.com/wildfly/quickstart>



Cloner the repository



Go to helloworld example



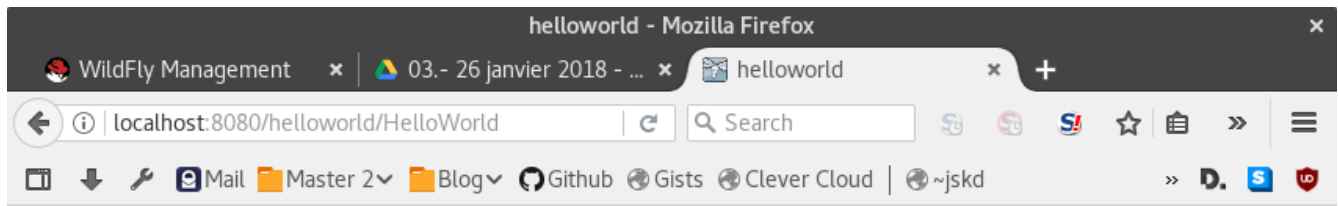
Deploy in wildfly

```
jskd@jskd-laptop: ~/Documents/quickstart/helloworld
> mvn clean install wildfly:deploy
```

Check build success

```
jskd@jskd-laptop: ~/Documents/quickstart/helloworld
pi-1.1.0.jar
Downloaded: https://repo.maven.apache.org/maven2/org/eclipse/sisu/org.eclipse.sisu.inject/0.3.0/org.eclipse.sisu.inject-0.3.0.jar (367 KB at 263.1 KB/sec)
Downloading: https://repo.maven.apache.org/maven2/org/yaml/snakeyaml/1.13/snakeyaml-1.13.jar
Downloaded: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-guice/3.2.5/sisu-guice-3.2.5-no_aop.jar (391 KB at 272.2 KB/sec)
Downloading: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.0.1/httpclient-4.0.1.jar
Downloaded: https://repo.maven.apache.org/maven2/com/google/guava/guava/18.0/guava-18.0.jar (204 KB at 1532.2 KB/sec)
Downloading: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.1/commons-logging-1.1.1.jar
Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/3.3.1/maven-plugin-api-3.3.1.jar (46 KB at 30.9 KB/sec)
Downloading: https://repo.maven.apache.org/maven2/org/fusesource/jansi/jansi/1.16/jansi-1.16.jar
Downloaded: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.1/commons-logging-1.1.1.jar (60 KB at 37.3 KB/sec)
Downloaded: https://repo.maven.apache.org/maven2/org/eclipse/aether/aether-api/1.1.0/aether-api-1.1.0.jar (134 KB at 83.0 KB/sec)
Downloaded: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/httpclient/4.0.1/httpclient-4.0.1.jar (285 KB at 171.1 KB/sec)
Downloaded: https://repo.maven.apache.org/maven2/org/yaml/snakeyaml/1.13/snakeyaml-1.13.jar (268 KB at 160.4 KB/sec)
Downloaded: https://repo.maven.apache.org/maven2/org/fusesource/jansi/jansi/1.16/jansi-1.16.jar (250 KB at 149.1 KB/sec)
Jan 26, 2018 5:08:02 PM org.jboss.remoting3.EndpointImpl <clinit>
INFO: JBoss Remoting version 5.0.0.CR5
Jan 26, 2018 5:08:02 PM org.xnio.Xnio <clinit>
INFO: XNIO version 3.5.0.CR2
Jan 26, 2018 5:08:02 PM org.xnio.nio.NioXnio <clinit>
INFO: XNIO NIO Implementation Version 3.5.0.CR2
Jan 26, 2018 5:08:02 PM org.wildfly.security.Version <clinit>
INFO: ELY00001: WildFly Elytron version 1.1.0.CR4
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 17:20 min
[INFO] Finished at: 2018-01-26T17:08:04+01:00
[INFO] Final Memory: 42M/314M
[INFO] -----
~/Documents/quickstart/helloworld 7de01c4 17:23 39% 17:08:05
```

Go to [localhost:8080/helloworld](http://localhost:8080/helloworld)



# Hello World!