



LAB 1: SETUP

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1. Crear un directorio para crear nuestro primer proyecto Quarkus

mkdir start-setup

2. Crear una aplicación **Quarkus** usando el comando maven:

```
mvn io.quarkus:quarkus-maven-plugin:3.2.9.Final:create  
-DprojectGroupId=com.bcp.training -DprojectArtifactId=tenthaler  
-DplatformVersion=3.2.9.Final -Dextensions="resteasy-reactive"
```

3. cd tenther
 4. mvn quarkus:dev

Deberíamos obtener el siguiente resultado:

```
[INFO] Invoking resources:3.3.1:testResources (default-testResources) @ tenther
[INFO] skip non existing resourceDirectory C:\start-setup\tenthaler\src\test\resources
[INFO] Invoking quarkus:3.2.9.Final:generate-code-tests (default) @ tenther
[INFO] Invoking compiler:3.11.0:testCompile (default-testCompile) @ tenther
[INFO] Changes detected - recompiling the module! :dependency
[INFO] Compiling 2 source files with javac [debug release 17] to target\test-classes
[INFO] Annotation processing is enabled because one or more processors were found
on the class path. A future release of javac may disable annotation processing
unless at least one processor is specified by name (-processor), or a search
path is specified (--processor-path, --processor-module-path), or annotation
processing is enabled explicitly (-proc:only, -proc:full).
Use -Xlint:-options to suppress this message.
Use -proc:none to disable annotation processing.
Listening for transport dt_socket at address: 5005
--_ _ _ \_ / / / - | / - \_ / / / / / _ /
-/ _ / / / / _ / _ / < / _ / \_ \ \
--\_ _ \_ _ / / _ / / _ / / _ / \_ \_ / _ /
2025-09-02 16:22:29,009 ERROR [io.qua.run.Application] (Quarkus Main Thread) Port 8080 seems to be in use by another process. Quarkus may already be running or the port is used by another application.

2025-09-02 16:22:29,012 WARN [io.qua.run.Application] (Quarkus Main Thread) Use 'netstat -a -b -n -o' to identify the process occupying the port.
2025-09-02 16:22:29,013 WARN [io.qua.run.Application] (Quarkus Main Thread) You can try to kill it with 'taskkill /PID <pid>' or via the Task Manager.

--
Tests paused
Press [space] to restart, [e] to edit command line args (currently ''), [r] to resume testing, [o] Toggle test output, [ ] for the terminal, [h] for more options>
```

5. Invocar la aplicación

Curl

```
curl http://localhost:8080/hello
```

Powershell:

```
Invoke-WebRequest http://localhost:8080/hello
```

Rpta: Hello from RESTEasy Reactive

6. Cambiar el archivo de ejemplo **com.bcp.training.GreetingResource**

Antes:

```
@GET
@Produces(MediaType.TEXT_PLAIN)
public String hello() {
    return "Hello from RESTEasy Reactive";
}
```

NOTA: Cambiar el @Path("/hello") a @Path("/tenther")

Ahora:

```
@GET
@Path("/{number}")
@Produces(MediaType.TEXT_PLAIN)
public String multiply( @PathParam("number") Integer number ) {
    return String.valueOf( number * 10 ) + "\n";
}
```

7. Probar curl <http://localhost:8080/tenther/7>

Rpta: 70

8. Para la aplicación presionando la letra “q” o Ctrl+c.

```
Terminal Local × + 
Listening on: http://localhost:8080

2025-09-02 16:35:11,025 INFO [io.quarkus] (Quarkus Main Thread) Profile dev activated. Live Coding activated.
2025-09-02 16:35:11,028 INFO [io.quarkus] (Quarkus Main Thread) Installed features: [cdi, resteasy-reactive, smallrye-context-propagation, vertx]
2025-09-02 16:35:11,029 INFO [io.qua.dep.dev.RuntimeUpdatesProcessor] (vert.x-worker-thread-1) Live reload total time: 1.713s

-- 
Tests paused
Press [e] to edit command line args (currently ''), [r] to resume testing, [o] Toggle test output, [:] for the terminal, [h] for more options>
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 04:16 min
[INFO] Finished at: 2025-09-02T16:38:31-05:00
[INFO] ----- 
PS C:\start-setup\tenther> []
```