

[New issue](#)[Jump to bottom](#)

Hibernate Reactive Session/EntityManager is closed #23269

✓ Closed

gwenneg opened this issue on Jan 28 · 22 comments · Fixed by #23397

Labels

[area/hibernate-reactive](#)[area/persistence](#)[area/resteasy-reactive](#)[kind/bug](#)

Milestone

[2.7.1.Final](#)

gwenneg commented on Jan 28 • edited ▾

Member

Describe the bug

This may look similar to [#22433](#) (which was fixed in 2.6.3.Final) but this time the reproducer includes a resteasy-reactive request filter (see `RequestFilter` in the reproducer).

Here's the exception which is thrown randomly when the app is processing concurrent requests:

```
2022-01-28 15:11:21,411 ERROR [org.hib.rea.errors] (vert.x-eventloop-thread-4) HR000057: Failed to
execute statement [$1select fruit0_.id as id1_0_, fruit0_.name as name2_0_ from known_fruits
fruit0_ order by fruit0_.name]: $2could not execute query:
java.util.concurrent.CompletionException: java.lang.IllegalStateException: Session/EntityManager
is closed
    at
    java.base/java.util.concurrent.CompletableFuture.encodeThrowable(CompletableFuture.java:314)
    at
    java.base/java.util.concurrent.CompletableFuture.completeThrowable(CompletableFuture.java:319)
    at
    java.base/java.util.concurrent.CompletableFuture$UniCompose.tryFire(CompletableFuture.java:1081)
    at
    java.base/java.util.concurrent.CompletableFuture.postComplete(CompletableFuture.java:506)
    at java.base/java.util.concurrent.CompletableFuture.complete(CompletableFuture.java:2073)
    at io.vertx.core.Future.lambda$toCompletionStage$2(Future.java:360)
    at io.vertx.core.impl.future.FutureImpl$3.onSuccess(FutureImpl.java:141)
    at io.vertx.core.impl.future.FutureBase.emitSuccess(FutureBase.java:60)
    at io.vertx.core.impl.future.FutureImpl.tryComplete(FutureImpl.java:211)
    at io.vertx.core.impl.future.PromiseImpl.tryComplete(PromiseImpl.java:23)
    at io.vertx.sqlclient.impl.QueryResultBuilder.tryComplete(QueryResultBuilder.java:102)
    at io.vertx.sqlclient.impl.QueryResultBuilder.tryComplete(QueryResultBuilder.java:35)
    at io.vertx.core.Promise.complete(Promise.java:66)
    at io.vertx.core.Promise.handle(Promise.java:51)
```

```

        at io.vertx.core.Promise.handle(Promise.java:29)
        at io.vertx.core.impl.future.FutureImpl$3.onSuccess(FutureImpl.java:141)
        at io.vertx.core.impl.future.FutureBase.lambda$emitSuccess$0(FutureBase.java:54)
        at
io.netty.util.concurrent.AbstractEventExecutor.safeExecute(AbstractEventExecutor.java:164)
        at
io.netty.util.concurrent.SingleThreadEventExecutor.runAllTasks(SingleThreadEventExecutor.java:469)
        at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:503)
        at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:986)
        at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
        at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
        at java.base/java.lang.Thread.run(Thread.java:829)
Caused by: java.lang.IllegalStateException: Session/EntityManager is closed
        at
org.hibernate.internal.AbstractSharedSessionContract.checkOpen(AbstractSharedSessionContract.java:407

        at
org.hibernate.engine.spi.SharedSessionContractImplementor.checkOpen(SharedSessionContractImplementor.

        at
org.hibernate.reactive.session.impl.ReactiveSessionImpl.checkOpen(ReactiveSessionImpl.java:1558)
        at
org.hibernate.internal.AbstractSharedSessionContract.checkOpenOrWaitingForAutoClose(AbstractSharedSes

        at org.hibernate.internal.SessionImpl.getEntityUsingInterceptor(SessionImpl.java:603)
        at org.hibernate.loader.Loader.getRow(Loader.java:1610)
        at org.hibernate.loader.Loader.getRowFromResultSet(Loader.java:748)
        at org.hibernate.loader.Loader.getRowsFromResultSet(Loader.java:1047)
        at
org.hibernate.reactive.loader.hql.impl.ReactiveQueryLoader.getRowsFromResultSet(ReactiveQueryLoader.j

        at
org.hibernate.reactive.loader.ReactiveLoaderBasedResultSetProcessor.reactiveExtractResults(ReactiveLo

        at
org.hibernate.reactive.loader.hql.impl.ReactiveQueryLoader$1.reactiveExtractResults(ReactiveQueryLoad

        at
org.hibernate.reactive.loader.ReactiveLoader.reactiveProcessResultSet(ReactiveLoader.java:145)
        at
org.hibernate.reactive.loader.ReactiveLoader.lambda$doReactiveQueryAndInitializeNonLazyCollections$0(

        at
java.base/java.util.concurrent.CompletableFuture$UniCompose.tryFire(CompletableFuture.java:1072)
        ... 21 more

```

```

2022-01-28 15:11:21,413 ERROR [io.qua.ver.htt.run.QuarkusErrorHandler] (vert.x-eventloop-thread-4)
HTTP Request to /fruits failed, error id: 51fc210d-cc94-487b-bfb9-5c5b593badfb-17:
java.lang.IllegalStateException: Session/EntityManager is closed
        at
org.hibernate.internal.AbstractSharedSessionContract.checkOpen(AbstractSharedSessionContract.java:407

        at
org.hibernate.engine.spi.SharedSessionContractImplementor.checkOpen(SharedSessionContractImplementor.

```

```

        at
org.hibernate.reactive.session.impl.ReactiveSessionImpl.checkOpen(ReactiveSessionImpl.java:1558)
        at
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        at org.hibernate.internal.SessionImpl.getEntityUsingInterceptor(SessionImpl.java:603)
        at org.hibernate.loader.Loader.getRow(Loader.java:1610)
        at org.hibernate.loader.Loader.getRowFromResultSet(Loader.java:748)
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        at
org.hibernate.reactive.loader.ReactiveLoader.reactiveProcessResultSet(ReactiveLoader.java:145)
        at
org.hibernate.reactive.loader.ReactiveLoader.lambda$doReactiveQueryAndInitializeNonLazyCollections$0(

        at
java.base/java.util.concurrent.CompletableFuture$UniCompose.tryFire(CompletableFuture.java:1072)
        at
java.base/java.util.concurrent.CompletableFuture.postComplete(CompletableFuture.java:506)
        at java.base/java.util.concurrent.CompletableFuture.complete(CompletableFuture.java:2073)
        at io.vertx.core.Future.lambda$toCompletionStage$2(Future.java:360)
        at io.vertx.core.impl.future.FutureImpl$3.onSuccess(FutureImpl.java:141)
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        at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:503)
        at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:986)
        at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
        at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
        at java.base/java.lang.Thread.run(Thread.java:829)

```

2022-01-28 15:11:21,414 ERROR [org.jbo.res.rea.com.cor.AbstractResteasyReactiveContext] (vert.x-eventloop-thread-4) Request failed: java.lang.IllegalStateException: Session/EntityManager is closed

```
at
org.hibernate.internal.AbstractSharedSessionContract.checkOpen(AbstractSharedSessionContract.java:407

at
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io.netty.util.concurrent.SingleThreadEventExecutor.runAllTasks(SingleThreadEventExecutor.java:469)
        at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:503)
        at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:986)
            at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
            at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
            at java.base/java.lang.Thread.run(Thread.java:829)
```

Expected behavior

No response

Actual behavior

No response

How to Reproduce?

Reproducer: <https://github.com/gwenneg/quarkus-hibernate-reactive-server-request-filter>

Steps to reproduce the behavior:

- Start the app with `./mvnw clean quarkus:dev`
- Run [jmeter.test.plan.zip](#) with JMeter
- The exception should show up in the log eventually

⚠ If you change the Quarkus version to `2.3.1.Final`, the exception should never be thrown. As a consequence, this looks like a regression to us but I'll wait for a confirmation on that specific point before tagging the issue as a regression.

Output of `uname -a` or `ver`

Linux glepage.remote.csb 4.18.0-348.2.1.el8_5.x86_64 [#1](#) SMP Mon Nov 8 13:30:15 EST 2021 x86_64 x86_64 x86_64 GNU/Linux

Output of `java -version`

openjdk version "11.0.13" 2021-10-19 LTS

GraalVM version (if different from Java)

No response

Quarkus version or git rev

2.6.3.Final and 2.7.0.Final

Build tool (ie. output of `mvnw --version` or `gradlew --version`)

No response

Additional information

No response

  **gweneg** added the `kind/bug` label on Jan 28

  **quarkus-bot** `bot` added `area/hibernate-reactive` `area/persistence` labels on Jan 28

quarkus-bot `bot` commented on Jan 28

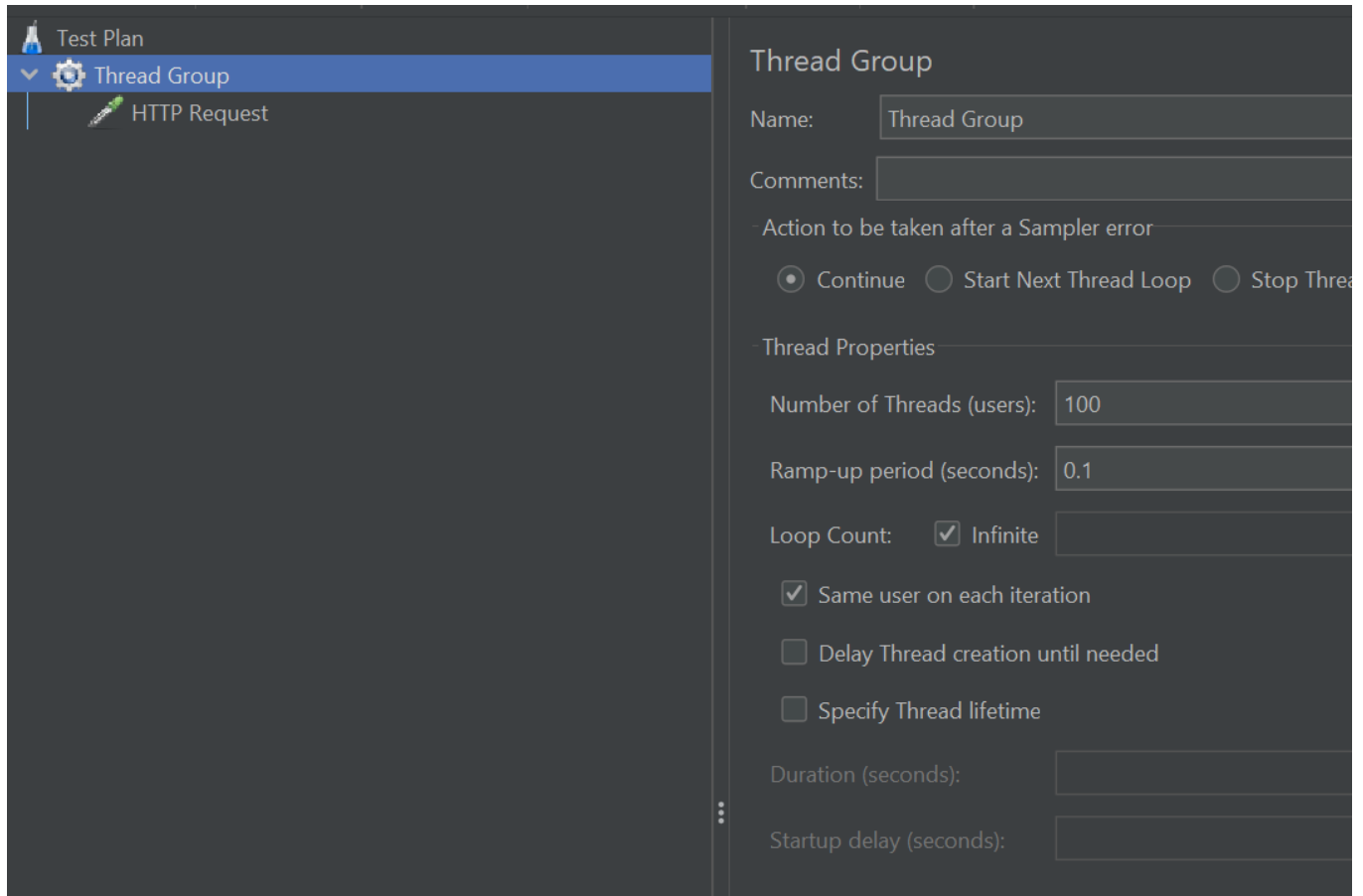
/cc @DavideD, @Sanne, @gavinking

gweneg commented on Jan 28

Member

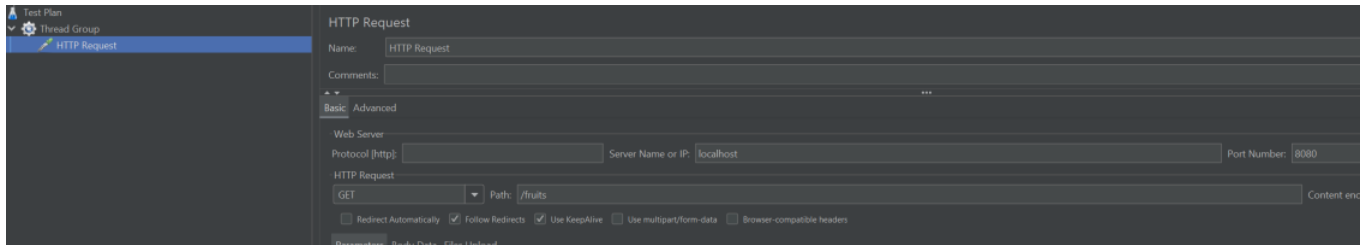
Author

In case you have an issue with the enclosed zip file, here's the JMeter configuration I used:



The screenshot shows the JMeter GUI with a Test Plan containing a Thread Group and an HTTP Request. The Thread Group is selected, and its configuration is shown on the right. The configuration includes:

- Name: Thread Group
- Comments: (empty)
- Action to be taken after a Sampler error: ☒ Continue, ☐ Start Next Thread Loop, ☐ Stop Thread
- Thread Properties:
 - Number of Threads (users): 100
 - Ramp-up period (seconds): 0.1
 - Loop Count: ☒ Infinite
 - ☒ Same user on each iteration
 - ☐ Delay Thread creation until needed
 - ☐ Specify Thread lifetime
- Duration (seconds): (empty)
- Startup delay (seconds): (empty)



gweneg commented on Jan 28

Member

Author

@geoand I'm not sure whether this bug is caused by hibernate-reactive or resteasy-reactive as it's only happening when a request filter is involved, so I'm tagging you as well 😊

geoand commented on Jan 28

Contributor

I don't really see how it could be caused by RESTEasy Reactive, but I'll try and take a look next week



🔗  gweneg mentioned this issue on Jan 28

Downgrade Quarkus to 2.3.1.Final RedHatInsights/notifications-backend#947

 Merged

geoand commented on Jan 31

Contributor

I don't see anything wrong from a RESTEasy Reactive perspective.

Just for completeness sake I'll mention that the filter **does** run a Vert.x event-loop thread as expected.

gweneg commented on Jan 31

Member

Author

Thanks for checking!



 DavideD self-assigned this on Feb 1

Sanne commented on Feb 1

Member

I've had a debugging session with **@DavideD**, we figured that the problem is caused by the fact that the `Mutiny.Session` used in the request filter and the one used in the resource are actually the same, as the `withSession` method will reuse a session instance from the `vert.x` context.

So the two sessions are the same instance, which is totally OK and expected from the point of view of Hibernate Reactive and `vert.x`.

However, the method annotated with `@ServerRequestFilter (Uni<Response> filter(ContainerRequestContext requestContext))` is returning an `Uni` which is being run *interleaved* with the `Uni` being returned by the method annotated with `@Get`, which is illegal and results in state-changing operations being applied in the wrong order, ultimately leading to an attempt to use possibly closed `Session` instance.

I'm not sure why this happens but it seems to relate with the fact that `@ServerRequestFilter` is being processed as a blocking "around invoke" interceptor, instead of chaining the `Uni` operations. This seems intentional if I read the javadoc of this method but I don't really understand why a `Uni` should be returned for a blocking operation (?) and how I would be supposed to return a properly non-blocking operation up to the chain.

@geoand / @FroMage ? It seems a bit ironical that RestEasy Reactive doesn't support a reactively implemented filter?

I don't see what we can do in HR to improve on this, other than possibly be even more strict with checks and aggressively throw an exception, as I'm worried that this only gets identified as a problem under load.

@gweneg an easy workaround would be to not use `withSession` :/

geoand commented on Feb 1

Contributor

However, the method annotated with `@ServerRequestFilter (Uni filter(ContainerRequestContext requestContext))` is returning an `Uni` which is being run interleaved with the `Uni` being returned by the method annotated with `@get`

This should not be the case... When a `Uni` is being returned, then the request pipeline is suspended and only resumed when the result of the `Uni` comes back.

@geoand / @FroMage ? It seems a bit ironical that RestEasy Reactive doesn't support a reactively implemented filter?

Not sure what you mean here. As I explained above, the reactive return type of the filter should result in suspending request (I will make sure there isn't some kind of bug here).

 **DavideD** removed their assignment on Feb 1

Sanne commented on Feb 1

Member

However, the method annotated with `@ServerRequestFilter` (`Uni filter(ContainerRequestContext requestContext)`) is returning a `Uni` which is being run interleaved with the `Uni` being returned by the method annotated with `@get`

This should not be the case... When a `Uni` is being returned, then the request pipeline is suspended and only resumed when the result of the `Uni` comes back.

It's clearly being interleaved in this case.

@geoand / @FroMage ? It seems a bit ironical that RestEasy Reactive doesn't support a reactively implemented filter?

Not sure what you mean here. As I explained above, the reactive return type of the filter should result in suspending request (I will make sure there isn't some kind of bug here).

I'm referring to the points described on:

[quarkus/independent-projects/resteasy-reactive/server/runtime/src/main/java/org/jboss/resteasy/reactive/server/ServerRequestFilter.java](#)
Lines 53 to 74 in 65f0a3d

```
53      * The return type of the method must be either be of type {@code void}, {@code Respon
54      * {@code Optional<Response>}, {@code Optional<RestResponse>},
55      * {@code Uni<Void>}, {@code Uni<Response>} or
56      * {@code Uni<RestResponse>}.
57      * <ul>
58      * <li>{@code void} should be used when filtering does not need to perform any blockin
59      * processing.
60      * <li>{@code Response} or {@code RestResponse} should be used when filtering does not
61      * and the filter cannot
62      * abort
```

Most likely I'm just confused, but it seems to suggest that `Uni` responses should be used for blocking operations; it doesn't suggest what one is supposed to do in this case while having a "fully reactive" chain.

geoand commented on Feb 1

Contributor

It's clearly being interleaved in this case.

I'll take a closer look.

Most likely I'm just confused, but it seems to suggest that `Uni` responses should be used for blocking operations; it doesn't suggest what one is supposed to do in this case while having a "fully reactive" chain.

I agree it's not phrased well. I'll fix it.

Sanne commented on Feb 1

Member

thanks @geoand !



Sanne added the `area/resteasy-reactive` label on Feb 1

geoand commented on Feb 1

Contributor



geoand commented on Feb 1 • edited ▼

Contributor

I am going to stand by my position that there is nothing wrong in the filter handling in REStEasy Reactive.

I verified this by taking the reproducer and changing it in the following way:

```
@ServerRequestFilter
public Uni<Response> filter(ContainerRequestContext requestContext) {
    return sf.withSession(s -> {
        requestContext.getHeaders().add("test", "true");
        return s.createNativeQuery("SELECT 1")
            .getSingleResult()
            .replaceWith(() -> null);
    })
    );
}
```

Note that inside the `uni` I am adding a test HTTP header.

Then I made changed the JAX-RS method to:

```
@GET
public Uni<List<Fruit>> get(@HeaderParam("test") String testHeader) {
    if (!"true".equals(testHeader)) {
        throw new IllegalStateException("RR is severely misbehaving");
    }
    return sf.withTransaction((s,t) -> {
        return s.createNamedQuery("Fruits.findAll", Fruit.class)
            .getResultList();
    })
    );
}
```

Now when I hit this with a lot traffic, I do get

```
2022-02-01 19:40:27,131 ERROR [org.hib.rea.errors] (vert.x-eventloop-thread-44) HR000057: Failed
to execute statement [$1select fruit0_.id as id1_0_, fruit0_.name as name2_0_ from known_fruits
fruit0_ order by fruit0_.name]: $2could not execute query:
java.util.concurrent.CompletionException: java.lang.IllegalStateException: Session/EntityManager
is closed
```

but nowhere do I see RR is severely misbehaving that should be thrown if the execution of the filter and resource method is interleaved.

What's more, I did the same experiment taking HR out of the picture entirely, and just used the test HTTP header I mentioned above, through a lot more load at it and it never once failed.

The Javadoc issue mentioned should be fixed in [#23347](#)

Sanne commented on Feb 1

Member

I don't think you can test it in this way: the HR issue is only manifesting sporadically and with high load, and it's helped by the fact that the *span* of events being covered is quite long: we do need to send two operations to the RDBMS, and then wait for results for these.

But thanks for the idea, I will play with some variations of that. Worst case I will learn how wrong I am :)

geoand commented on Feb 2

Contributor

I'm very interested in what you find!

Let me know so I can dig into this more if needed

Sanne commented on Feb 2

Member

Complex discussion followed up:

- <https://quarkusio.zulipchat.com/#narrow/stream/187038-dev/topic/Vertx.20Local.20context>

In short, I believe RestEasy Reactive should isolate the vertx context, but others aren't convinced of this; it might take some time.

In that case @gweneg you won't be able to use context-bound objects, which are implicitly relied on if you use `withSession` or `withTransaction` ; as alternative you'll have to open sessions and transactions explicitly (e.g. `openSession()`), and `close()` them explicitly.



Sanne commented on Feb 2

Member

Also: I've adapted the reproducer to verify our requirements without using Hibernate Reactive:

- <https://github.com/Sanne/quarkus-resteasy-reactive-vertx-context>

It also fails only under load, but it might be a little simpler to understand why.

geoand commented on Feb 2 • edited ▼

Contributor

It also fails only under load, but it might be a little simpler to understand why.

The reproducer is excellent in showing what the thorny issue is.

TL;DR: Hibernate Reactive expects `Vertx.currentContext().getLocal()` and `Vertx.currentContext().putLocal()` to work on a per-request basis. This does seem reasonable, but it appears like Hibernate Reactive was the only system that has this expectation.

  geoand mentioned this issue on Feb 3


Use the correct context for RESTEasy Reactive #23397

 Merged

Sanne commented on Feb 3

Member

@gweneg this was fixed by [#23397](#)

 Sanne closed this as completed on Feb 3

  gsmet added this to the **2.7.1.Final** milestone on Feb 3

gweneg commented on Feb 3

Member

Author

Thanks!

 1

mklueh commented on Feb 8

Contributor

Complex discussion followed up:

- <https://quarkusio.zulipchat.com/#narrow/stream/187038-dev/topic/Vertx.20Local.20context>

In short, I believe RestEasy Reactive should isolate the vertx context, but others aren't convinced of this; it might take some time.

In that case @gweneg you won't be able to use context-bound objects, which are implicitly relied on if you use `withSession` or `withTransaction` ; as alternative you'll have to open sessions and transactions explicitly (e.g. `openSession()`), and `close()` them explicitly.

Is this now not required anymore, as this issue is closed?

DavideD commented on Oct 13

Contributor

Is this now not required anymore, as this issue is closed?

A bit late but that's correct, it should work as expected now



Assignees

No one assigned

Labels

area/hibernate-reactive area/persistence area/resteasy-reactive kind/bug

Projects


None yet

Milestone

2.7.1.Final

Development

Successfully merging a pull request may close this issue.

 Use the correct context for RESTEasy Reactive
stuartwdouglas/quarkus

6 participants

