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Asynchronous Communication With JAX-RS 2

See how you can easily set up asynchronous communication using JAX-RS 2. This code snippet will show you how it's done.



by Tomasz J-ski · Oct. 07, 16 · Java Zone · Code Snippet



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Asynchronous communication has become more important nowadays, especially as data become more voluminous every day.

One of the simplest cool new features in JAX-RS 2 is asynchronous processing. What's really nice is that async processing has been added both to client and server side APIs.

For instance:

```
1 @Path("/test/operation")
2 @Stateless
3 public class TestResource {
4     @GET
5     @Produce("application/json")
6     @Asynchronous
7     public void operation(@Suspended AsyncResponse asyncResponse) {
8         asyncResponse.resume(someLongOperation())
9     }
10 }
```

There are two key annotations used here.

@Asynchronous: This informs the container to release client requests and start processing other incoming requests. When the worker finishes, the processing method will call the container to send the result to the client.

@Suspended: This informs the container to suspend and resume communication while the worker thread, `someLongOperation` in this case, is finished.

At the client side, we could also use **InvocationCallback**.

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