Subject: Building a minimal FairMQ service in Docker with static executables
Posted by Michael Papenbrock on Fri, 14 Sep 2018 11:07:07 GMT
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Hello!

I'm not sure if this fits here perfectly since I'm actually referring to the standalone version of FairMQ. Anyway, I'll get to the point.

I'm currently implementing a set of samplers/processors/etc. with the standalone version of FairMQ. So far, implementation-wise that seems to be working fine. However, I would like to deploy the corresponding executables with Docker and run them each in their own container. Here, the size of the resulting image/container matters, both in terms of security and performance (at least in the context of a larger cluster). Hence, a common practice is to compile services into static executables instead of dynamically linking them, so one doesn't have to carry over the dependencies. When I tried this, I realised that both FairMQ and its dependency FairLogger currently only generated dynamic libraries and as far as I know one cannot generate a static executable from dynamic libraries (please correct me if this is wrong).

So, my question is: Is anyone aware of a way to create a FairMQ service as a static executable?

Thanks in advance!

Best regards,
Michael

Subject: Re: Building a minimal FairMQ service in Docker with static executables
Posted by Mohammad Al-Turany on Sun, 16 Sep 2018 05:46:05 GMT
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Hi Michael,

We have a completely different way of running with dockers, (one topology per container and not per process if I understand your post!). Please open an issue in https://github.com/FairRootGroup/FairMQ.

best,

Mohammad

Subject: Re: Building a minimal FairMQ service in Docker with static executables
Posted by Michael Papenbrock on Mon, 17 Sep 2018 10:56:26 GMT
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Hi Mohammad,

I think I see what you mean. I have created a corresponding issue on github. Anyone who is interested can find it here: https://github.com/FairRootGroup/FairMQ/issues/89

Thanks!

Best,

Michael