

Theme: Shanghai library FOLIO project

Time: January 4, 2023 07:30 pm (EST) / January 5, 2023 08:30 am (GMT+8)

Attendees:

- Vincent Bateau (Enterprise Architect, EBSCO)
- Gang Zhou (Project manager, Shanghai library)
- Sha Jiang (Technical Director, Jiatsu)
- Lucy Liu (Product Owner, Folio China)

Notes:

1. Question from Sha Jiang



Sha Jiang 9:55 PM

Happy new year! @vbar Hi Vince, we met a deployment issue: one of our client is running OKAPI v2.40.0 for a long time . One day it crashed and could not be reboot. Here is the error message from OKAPI log when we tried to reboot. And we find that we could only change the DeploymentDescriptor.json from

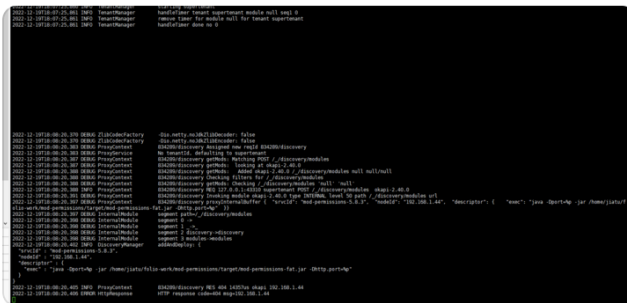
```
"srvcId": "mod-users-15.7.2",
"nodeId": "192.168.1.44",
"descriptor": {
  "exec": "java -jar /home/jiatsu/folio-work/mod-users/target/mod-users-fat.jar -
Dhttp.port=%p"
}
```

to

```
{
  "srvcId": "mod-users-15.7.2",
  "instId": "74d7424b-b1cc-4e17-a935-3e287c4a40f6",
  "url": "http://192.168.1.44:9233"
}
```

that OKAPI could be reboot. We could not find any trace of why it happened and how it be solved. Do you have any idea? Or what should we look into?

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Vince:

- Generally, you don't use deployment descriptors. You don't ask Okapi to launch the jar file for you because you are going to run into the limitations of the server where Okapi is running. It's possible that if you have too many things running and you run out of resources on the server, maybe this is just too many things. But some of them may be consuming too many resources that the thing will crash. That's always possible.
- Generally, it's better practice, especially for production systems, to deploy and stand up your modules separately, using Kubernetes or Rancher on a server of your own choice with orchestration of your choice, and then just register it with Okapi. In this way, modules are running on separate machines and separate servers (if necessary) from Okapi itself.
- You can achieve scalability because you can put multiple machines and multiple copies of modules. You can register them all to Okapi, which is on a separate machine, so that you don't run into resource contentions.
- By doing this, you may have greater insight for debugging if there's a problem because you can debug the deployment separately from the registration. If the machine is not running, if it's crashing on wherever you put the modules, you can look at your Kubernetes or whatever else you use for containers, to confirm the situation and debug from there. And if you find a problem with Okapi or registration, you will know it's only a problem with registration, not a problem with deployment.
- It could be that there are some defects with the old version of Okapi. There have been a lot of improvements since that old version of Okapi. One version had a big updated release on Vert.x. There's probably a new version of Vert.x. Whatever defects in the dependencies may have been addressed by that update as well.

Sha Jiang: This is our oldest environment. And this is the only one that deployed modules by Okapi. Maybe this problem won't happen again.

Vince: If you ever do it again, i.e., deployment with Okapi, you can see the deployment instructions are providing parameters on the command line to launch it. You can potentially add some parameters there to enable debugging or JVM or whatever to do it.

2. Do you have any updates on the FOLIO project at Shanghai Library? (Vince)

Gang Zhou:

- The West building of Shanghai Library also went live on FOLIO. Both the East and West buildings are using FOLIO circulation modules now.
- We are preparing to implement Acquisition, ERM and more FOLIO modules.

3. Does FOLIO support Bibframe? (Gang Zhou)

Vince: Not yet. The Library of Congress cares about Bibframe most and might include it in their requirements.

Lucy: Gloria and Khalilah from EBSCO will do presentations to share plans for the EBSCO and LOC project on January 31, 2023. There is a file describing LOC's requirements. Details are still being discussed.