SDK and Debugging Lisbon

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1 Alfresco Out of Process application with python

Point of view: support: identifying/understanding problems

The slides and code are at: https://github.com/alexmadon/presentationTQ2024

2 Plan

- $1. \ \, {\rm Active MQ \ protocols}$
- 2. Out of Process application with python and STOMP
- 3. Mirroring queues into topics

3 ActiveMQ protocols

3.1 active MQ transport connectors and protocols

- amgp: Java Advanced Message Queuing Protocol (see also JMS
- stomp: python (and many many others, including java)

See activemq.xml:

3.2 STOMP

```
STOMP = Streaming Text Oriented Messaging Protocol https://stomp.github.io/https://en.wikipedia.org/wiki/Streaming_Text_Oriented_Messaging_Protocol
STOMP is a very simple and easy to implement protocol, coming from the HTTP school of design; https://stomp.github.io/implementations.html
we will use stomp-py: https://github.com/jasonrbriggs/stomp.py https://pypi.org/project/stomp-py/
```

4 ActiveMQ and python

4.1 ActiveMQ and python: why?

- you can use python to consume the event2 topic out of process apps (SDK is not mandatory)
- you can use python to debug the queue (transformers) with AMQ mirrors
- easy

Benefits of *loose coupling*: performance + freedom

4.2 ActiveMQ and python: event2 demo

DEMO1

5 Active MQ queue mirrors

5.1 Active MQ rendition and transformer queues mirroring

Make sure you use remote transforms (not local):

```
transform.service.enabled=true
local.transform.service.enabled=false
```

 $https://hyland.atlassian.net/browse/MNT-23454\ https://hyland.atlassian.net/browse/MNT-23478$

5.2 Note on debug server (ACS) side: messages org.apache.camel DEBUG are truncated

- camel is an apache project https://camel.apache.org/(https://github.com/apache/camel/tree/main)
- set DEBUG an org.apache.camel at http://localhost:8080/alfresco/s/enterprise/admin/admin-log-settings

```
2023-06-13 11:47:00,734 DEBUG [component.jms.JmsConfiguration] [eventAsyncDequeueThreadPool Sending JMS message to: topic://alfresco.repo.event2 with message: ActiveMQTextMessage ... text = {"specversion":"1.0","type":"org.alfresco.eve...rities":[]}}}
(DEMO2)
```

5.3 Note: you can also develop custom T-engine

Again: Benefits of $loose \ coupling$: performance + freedom

- in Java (another SDK) https://docs.alfresco.com/content-services/latest/develop/repo-ext-points/content-transformers-renditions/#developing-a-new-t-engine https://github.com/Alfresco/acs-packaging/blob/master/docs/creating-a-t-engine.md
- in python: no SDK but protocol is simple

6 QA

Thank You!

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