2021-03-26 Clowder Dev Meeting notes

Date

26 Mar 2021

Attendees

- Luigi Marini - absent
- Maxwell Burnette
- Sara Lambert
- Todd Nicholson
- Bing Zhang
- Mark Fredricksen - absent
- Michael Bobak
- Rob Kooper
- Michael Johnson
- Elizabeth Yanello
- Kathryn Naum
- Sandeep Puthanveetil Satheesan -
- Shannon Bradley

Discussion items:

Clowder All Paws Virtual Conference Update

Grafana Dashboards (Mike L.)

Helm Charts - Rob

DataCite Update (DOI minting) - Lisa

katacoda for software tutorials

Jong Lee to ask Kaiyu to present

Who	Notes
Luigi	absent - need to set up a time to meet with Maryam Ghadiri to discuss Clowder (possible hosting) and Geodashboard data: For my research, the data include: hydraulic conductivity data, soil moisture content data, distributed temp sensing data, electrical earth resistivity data, etc.

Max	Meeting with Klara to discuss MongoDB 4.0. This is not up and running yet, but is being tested.
	
	Round Table: SIMPL extractors. Creating dockers became cumbersome and we are moving away from this. So how do we replace this? Write a wrapper function with decorators in python. Rob has played with decorators for flask applications and found they worked well.
	
	``python
	def simple_extractor(func):
	    create client
	    connect
	    listen
	    on message, output = func(message)
	
	@simple_extractor
	def my_function(input_file)
	    do stuff
	return {output}
	``
	
	Techical discussion ensued.
	
	``python
	def simple_extractor(func):
	def wrapper(**args):
	    create client
	    connect
	    listen
	    on message, output = func(message)
	
	# comment this out for test case
	@simple_extractor
	def my_function(input_file)
	    do stuff
	    return {output}
	
	# test vs. use as extractor
	main():
	    my_function(some file) # test
	``
	
	There are 2 ways we can do this:
	
	- decorators, the code will have decorations that will indicate what function to call for the extractor.
	  - pro: easy, python developers are familiar with this pattern
	  - con: requires decorators to be there even in case of testing function
	  - con: only works with python, not R
	- extractor_info.json, add some pieces to the json code to allow to create the docker image
	  - pro: we already require this file,
	  - pro: works with other languages
	  - con: add some build dependencies to extractor_info.json
	  - con: hard to check syntax validity
	
	Michael Johnson will dig deeper into this using decorator.
	
	Rob says what if we give it an extractor info file adding three pieces that makes a wrapper to build the docker file
	
	Will report finding next week.

Mike L.	No updates for Clowder
Todd	Need to review pull requests. Look into upgrading MongoDB to 4.0, Mongo Scala driver. Working
Bing	Reviewing Industry docker
Mark F	absent
Mike B.	Working on other projects

Rob	Updated helm chart to fix issue with rabbitmq Plan for release of 1.16.0 early next week. We can make releases on helm charts next week.
Michael J	working on building extractors for SIMPL.
Sandeep	No updates
Shannon	**All Paws Agenda Draft -** use first tab - Moving to a single track https://docs.google.com/spreadsheets/d/1mCZIvr7VjAd5sq_bH0GQ43Q7nhToOn-RELwcKDF9Oq4/edit#gid=1813509220
Katie	
Lisa	- Event Services Meeting quote - ~1500 - waiting to see if Kenton approves - Meeting with Marketing 3/26 at 2:00pm to cover swag, advertising, registration, Save the Date, etc. - DataCite - Purchasing has to send in paperwork by the end of the month - received answer from Kenton McHenry we will prorate on the fiscal year - if paperwork gets in by EOM - membership will start on May 1 - Sarah believes she has all she needs now

Action Items/To Dos:

- [ ] Elizabeth Yanello Shannon Bradley Web Page up/Registration/agenda/Save the Date

- [x] Maxwell Burnette & Michael Johnson discuss SIMPL extractors on 3/26/21.

- [ ] Lisa & Shannon present updates on the Clowder All Paws Conference 4/2/21