From: **"Jaime Alberto Gutiérrez Mejía"** jaimealbertogutierrez@gmail.com
Subject: INFORMATION REQUEST FOR CNCFLORA BRASIL
Date: September 19, 2016 at 3:03 PM America/Los_Angeles
To: diogo@cncflora.net
Cc: "Ricardo Alberto Reyes Jiménez" rreyes@humboldt.org.co, Daniel Lopez dlopez@humboldt.org.co, Carolina Castellanos Castro ccastellanos@humboldt.org.co, Maria Piedad Baptiste mpbaptiste@humboldt.org.co

Engineer Diogo

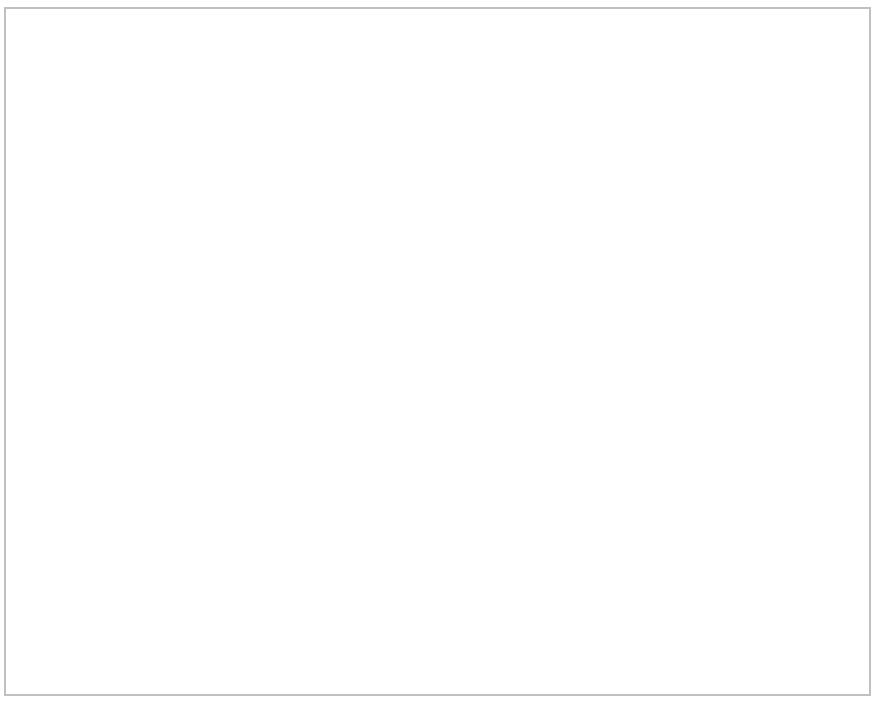
Warm and friendly greeting. I hope you are fine. I send a big hello from Colombia

As you may know, I am supporting the engineer Ricardo Reyes, in the process of adapting its information system CNCFLORA BRAZIL Research in Institututo Alexander von Humboldt, here in Colombia.

Considering this, I communicate with you since it is necessary for me, understand some of the following points:

1) I would like to understand the basis of the integration pattern Phyton / Elasticsearch and Searchdb, for the process of defining queries, queries and data feed these documents NoSQL databases.

2) Since I made the edition of the Portal folder on the local environment, but note that I isolate this app nuvem cluster other applications, and lift the service apart to edit and intervene HTML / CSS / JS components of the application .



3) I would like to analyze where the main connection to all data sources is performed, in order to

set up the files for the test environment and productive version for Colombia.

If possible, I would appreciate me can send the technical manuals of the application, URI access management environment all modules in order to identify the configuration of the system and processes to load families and threatened species (List Vermelha)

Thank you very much

Cordially,

Engineer
JAIME ALBERTO GUTIERREZ MEJIA
CONTRACTOR ALEXANDER VON HUMBOLDT
INFORMATION SYSTEM PROJECT RISK ANALYSIS OF SPECIES EXTINCTION

From: **Diogo Silva** diogo@cncflora.net
Subject: Re: INFORMATION REQUEST FOR CNCFLORA BRASIL
Date: September 21, 2016 at 8:38 PM America/Los_Angeles
To: "Jaime Alberto Gutiérrez Mejía" jaimealbertogutierrez@gmail.com, "Ícaro de Carvalho" icaro@cncflora.net
Cc: Diogo Silva diogo@cncflora.net, "Ricardo Alberto Reyes Jiménez" rreyes@humboldt.org.co, Daniel Lopez dlopez@humboldt.org.co, Carolina Castellanos Castro ccastellanos@humboldt.org.co, Maria Piedad Baptiste mpbaptiste@humboldt.org.co

Hello Jaime,

Nice to meet you!

I will try my best to answer your questions.

1) About CouchDB and ElasticSearch.

They form the storage and search engine of most of the applications.

The general pattern is that the systems write data into CouchDB, that guarantees the durability and history of changes, and also write the data into ElasticSearch, that enables queries and search.

It is in the code of each system the responsability to write at each DB.

2) About local changes.

As you already seen, you can work on the systems individually. Once local changes are done, you build the Docker image and update them on the "nuvem" project. Example, to build the Portal docker image:

```
$ docker build -t colombia/portal .
```

As you see, the "-t" stands for the tag this project get in docker, such as instituion/project (you can use any name you want).

To use this image (colombia/portal) instead of our (cncflora/portal) at nuvem, you the corresponding "image" line at nuvem docker-compose.yml.

The way you did it is the normal flow: You edit the project isolated and after done you build the image and deploy at nuvem.

3) About connection to data source, and environments.

Again, here everything is Docker. Locally, once you setup a system, it will be using docker-compose to initiate all required servers (DB, dependent services and the project it self), so all connections are internal to the docker environment.

For the projects you change, you will begin to use docker images prefixed with "colombia/" instead of "cncflora/", and that will reflect on nuvem.

The nuvem project is how they go to production.

A good starting point is the Checklist project, that handles the list of families, species and such.

I am sure these have not answered your questions completely, but I hope it helps a little. Keep sending them.

It is a rather big set of systems, but I am confident we will get them all.

If you guys think it's better you can send the questions in spanish, even if I still answer in english.

Another thing, I will be copying Ícaro whom is the new developer at CNCFlora, he might be able to answer some of the questions too.

Diogo.

CNCFLORA
Centro Nacional de Conservação da Flora

Diogo Souza da Silva
Núcleo de Sistema de Informação e SIG
diogo@cncflora.jbrj.gov.br

Centro Nacional de Conservação da Flora
Instituto de Pesquisas Jardim Botânico do Rio de Janeiro
+55 (21) 3204-2086
Rua Pacheco Leão, 915, sala 201
Jardim Botânico Rio de Janeiro/RJ 22.460-030
http://cncflora.jbrj.gov.br

2016-09-19 19:03 GMT-03:00 Jaime Alberto Gutiérrez Mejía <jaimealbertogutierrez@gmail.com>:

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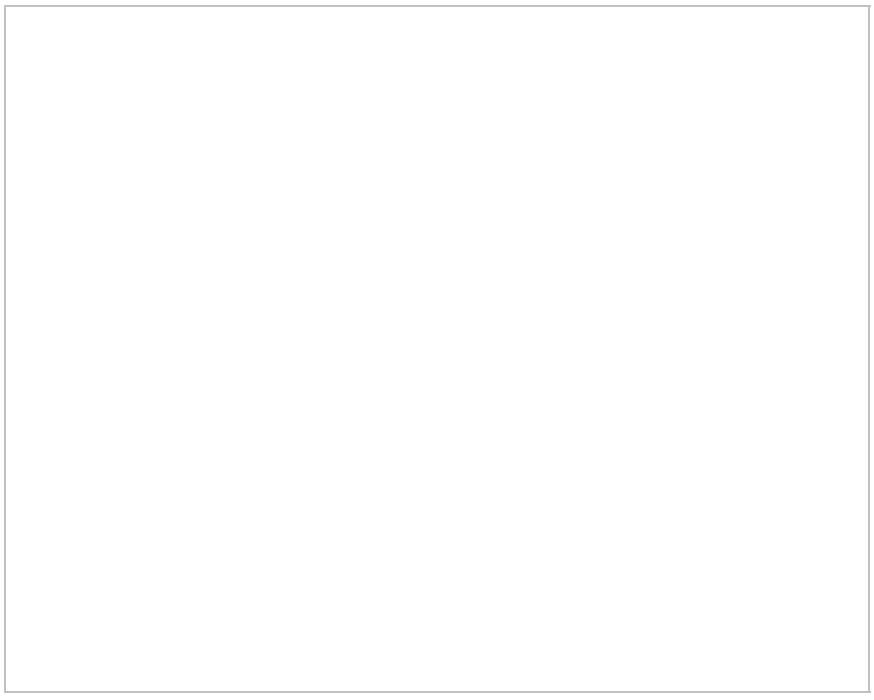

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