UCLH PEACH and NHS Open Source: OpenEHR Architecture and Analytics

Team 38: Report 3

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Overview:

Over the past couple of weeks, we have finalized our set of requirements with our client , Dr Ramachandran, and formatted them in a MoSCoW style analysis. Furthermore, he has provided us with a set of high-level diagrams describing those requirements so that we could get a clearer understanding of the project deliverables.

Additionally, we have made progress on our project website and have created a couple of pages to begin with including the Overview, Requirements and Project Management. The Overview page contains the background information about the project, the client and the goals. The Requirements page contains the final Requirements table that both Dr Ramachandran and us agreed on. Finally, the Project Manangement page keeps track of our work progress.

We have also been able to set up the DC/OS installation in the UK region with the use of a custom template which was not available previously. With the help of this, we can start experimenting with various apps and services.

Problems Faced:

While attempting to deploy the DC/OS installation using the custom template, we discovered that we did not have enough available ‘cores’ in the Azure subscription that was provided. Therefore, in order to solve this problem we had to remove all the unnecessary background projects that were running and request Microsoft to extend the number of cores overall.

Successes:

We finally succeeded in deploying the dc/os installation in the UK South Region which was requested by Dr Ramachandran.

Plan for next two weeks:

No.	Task
1	Study and Research on the PEACH Generator's previous work and repository
2	Come up with requirements for the PEACH Generator and finalise with Dr Ramachandran
3	Install Kafka on the DC/OS server.
4	Install Spark on the DC/OS server and research up on Elastic Stack
5	Install Druid on the DC/OS server and research up on connectors and Metabase
6	Read up on Kafka Streams

Summary of meetings held:

Meeting Date	Who attended	What we did
07/11/16	Sandipan Mengyang Desislava	● Examined progress so far and made sure all team members are on track and aware of further steps to take
09/11/16	Sandipan Mengyang Desislava	● Attempted to implement the DC/OS server in the UK South Region ● Discussed and created the set of final requirements in MoSCoW style format.
17/11/16	Sandipan Mengyang Desislava	● Discussed advantages and disadvantages of using React/Angular2/Electrode for the common PEACH framework that the UI Superteam will be implementing
18/11/16	Sandipan Mengyang Desislava	● Looked into creating a ssh tunnel to connect to the dc/os cluster that was deployed on one of the local machines

Individual Contributions:

Sandipan Ganguly

When the custom template was provided, I attempted to implement the DC/OS implementation in the UK South Region. I also worked on the finalizing the set of requirements in MoSCoW style format with our client Dr Ramachandran. Furthermore , I worked on our project website and created a couple of pages including the Overview, Requirements and Project Management pages.
As requested by Dr Ramachandran, I read up on the documentation on the PEACH generator project.

Mengyang Wu

From the failure of DC/OS deployment in the last two weeks, I finally found a way to deploy using Azure templates. After that, I successfully connected the system from my own machine by ssh. Meanwhile, our team had finalised the requirements with our client, so we can focus on the implementation of the core architecture part.
Apart from the progress on DC/OS, I continued learning everything about Nifi and Kafka. In the following two weeks, I will start to develop our project based on the requirements we already have.

Desislava Koleva

Unfortunately, I was unable to make much progress with the PEACH project during either scenario week nor reading week, as I was mostly focused on working on our scenario week project as well as catching up with materials for other modules. However, in the past week I have returned to watching the Kafka and NiFi tutorials from where I had left off. I have especially been focused on NiFi, as our client has highlighted that we would potentially be integrating the PEACH generator with NiFi. Furthermore, I have started looking at the documentation on the PEACH generator repository sent by Dr Ramachandran.