492 WEEKLY REPORT #4
Cloud Environment Manager

Group Number: 39
Client: PwC
Advisor: Lotfi Ben Othmane

Team Members:

Adis Osmankic - Team leader

Zane Seuser - Cloud Architect

Jet Jacobs - System Architect

Rishabh Bansal - Report Manager

Gavin Monroe - Meeting Scribe

Summary:

This report is another small one because of the lack of availability of team members due to conflicting schedules, it being a period where a lot of projects are due, and exams. We were able to authenticate and secure our API with a basic token and validate/sanitize all user input. We also began logging all functions and began properly tagging the log files properly.The frontend is currently in the process of debugging major bugs and fixing translation issues.

Past Week:

- API- Zane Seuser
  - Implemented basic authentication to secure our API
  - Documented how to access the API with new authentication
  - Major refactor of /lab routes to allow easy implementation of GCP and Azure cloud platform playbooks
- Cloud- Adis Osmankic
  - Created first playbooks for GCP
  - Created and documented authentication for programming access of the GCP
- Front End- Jet Jacobs
  - Finished up template creation page
  - Have support for future extensions for other platforms

Pending Issues:
None

Please reach out to one of the team members if you lack access to our JIRA board.

Individual Contributions:

Name	Contribution	Hours weekly	Hours Semester
Adis Osmankic	- Created and published documentation for select GCP playbooks - Focused mostly focused on getting the instance creation to work - Created authentication process for GCP - Setup accounts for service accounts with adequate permissions - Created keys for account and stored them on server - Documented authentication process	6	24
Zane Seuser	- Implemented and documented basic authentication for the API - Created a static, encoded access token - Created decode / validation logic in a function wrapper - Added the wrapper to our routes to ensure security - Documented required header name and value for making calls to our API - Separated out the AWS playbook logic into its own file, so that it cleaned up the app.py (main) file, and made it super easy to be able to add other cloud platforms during this next sprint	7	25

Jet Jacobs	● Worked on Frontend beginning on the template creation page ● Worked on cleaning up some backend routes for template creation	10	18+10
Rishabh Bansal	● Reading about the logger for the backend API ● Getting to know about using it on Python ● Inheriting logger for the Backend API ● Testing the Logger on the local machine with intensive debugging ● Worked more on MongoDB and getting used to it more ● Used Docker to run it locally.	6	23
Gavin Monroe	● Started researching backend technology frameworks to implement for communication. ● Started Prototyping these frameworks to make sure we have a structure and view of the technology ● Reviewed requests and code pushed to the gitlab	6	16

Screenshots:
No screenshots to share this week as most work was just code and debugging.

Upcoming Items:

Please reach out to one of the team members if you lack access to our JIRA board.

- Implement /lab routes for Azure (Zane)
- Begin implementation of the GCP /lab routes (Zane)
- Find a better (more secure) way to store the secret value for authentication (Zane)
- Finish implementation of GCP Ansible Playbooks (Adis)
  - Need to create/test/modularize playbooks for all functions in GCP
- Create a playbook to collect all available images from all accounts.
- Create proper translation functionality for general information to be converted to cloud readable data (Group)

- Fixing current implementation of deploy request on front end (Jet)
- Confirm All AWS UI complete (Jet)