492 WEEKLY REPORT #2 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

Past Week:

- Backend- Rishabh Bansal
 - Worked on the Template_update API for the backend.
 - Getting started with Docker concepts
 - Tested up mongo db locally and use of pymongo for python.
- Frontend- Jet Jacobs
 - Began creating display component for running machines list
 - Began creating form for template creation using backend routes
- Backend- Zane Seuser
 - Wrote MongoDB interaction functions
 - Implemented MongoDB updates on lab DELETEs and POSTs (AWS)
 - Implemented properly formatted lab GET for all and single (AWS)
- DevOps Adis Osmankic
 - Created Scripts to build and run frontend/backend
 - Connected scripts to GitLab for CI/CD
 - Dockerized frontend/backend
 - Restructured server file layout
 - Began security integration

Individual Contributions:

Name	Contribution	Hours weekly	Hours Semester
Adis Osmankic	 Created CI/CD pipeline Created a CI/CD pipeline integrated with GitLab (Git Repo) and Discord (Team Communication Platform) to test/build/deploy frontend/backend to server in both a test and prod environment Dockerized app Created Dockerfiles and restructured project to run in containers to have a consistent environment and deployment control GCP Ansible playbooks Create GCP account for team to use Began setup environment to work with Ansible GCP 	6	14
Zane Seuser	 Created MongoDB connection and interaction functions Pulled template from MongoDB in /lab POST Insert deployment in /lab POST & delete deployment in /lab DELETE Properly formatted response for all labs in /lab GET Ability to get a single lab from /lab GET 	7	14
Jet Jacobs	 Worked on Frontend beginning on the template creation page Wrote documentation for use of mongo containers for local deploy Began writing more reusable react components so that we may reduce code repetition 	9	4+9
Rishabh Bansal	 Worked on the backend for the Update_ template API Learned about docker and have some testing locally for concepts. Initialized mongo db for the API I worked 	5	12

	on for testing.Getting familiarized with pymongo		
Gavin Monroe	 Worked on the Frontend Template Focused on the Architecture design to make sure we can bring confidence in design and implementation Applied eslint standards Applied Coding Standards through prettier 	5	10

Upcoming Items:

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

- Begin implementation of /lab routes for next cloud platform (Zane)
- Document current /lab routes (Zane)
- Look into/implement simple API security (Zane)
- Finish implementation of GCP Ansible Playbooks (Adis)
 - Need to create/test/modularize playbooks for all functions in GCP
- Implement key service for storing/accessing keys for ansible (Adis)
 - Need to securely store keys used for ansible and cloud management
 - Need to consistently access these credentials without compromising security
- Finish up frontend cleanup (Jet Jacobs)
- Complete Template Creation Page (Jet Jacobs)
- Work on more API in backend.(Rishabh Bansal)
- Start initializing Docker. (Rishabh Bansal)