
492 WEEKLY REPORT

Cloud Environment Manager

Jan 25/21 - Feb 7/21

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:

- Ramp up period for all members as well as the following
- GUI - Jet
 - Began research on approach for file upload on frontend
- Backend - Jet
 - Began researching for approach to receive files from a route on the frontend
- Backend - Zane
 - Created Ansible run_playbook abstraction
 - Completed /lab DELETE route: accepts instance_id as argument
 - Refactored /lab POST route: still needs to pull template info from MongoDB
 - Refactored /lab GET: still need to pull region from MongoDB and properly format response
- Cloud Orchestration- Adis
 - Create playbooks for Azure cloud to create/terminate/modify vms
 - Customize Azure account with information required to deploy and manage vms
 - Document Ansible responses with parsable data

Individual Contributions:

Name	Contribution	Hours Weekly	Hours Semester
Adis Osmankic	<ul style="list-style-type: none">● Creation of Azure based playbooks● Creating parsable responses and documenting● Restructuring Documentation● Renewal of azure subscription and setting up account for testing purposes● Restructuring of server setup (Winter break)	8	8
Zane Seuser	<ul style="list-style-type: none">● Significant refactor of existing API code● Converted hardcoded values to be taken from request parameters, and/or are ready to be pulled from MongoDB	7	7
Jet Jacobs	<ul style="list-style-type: none">● Begun ramp up● Starting work on SD-47● Beginning work on SD-24	5	5
Rishabh Bansal	<ul style="list-style-type: none">● Restructured team website● Commented backend code● Restructured project code and cleaned Git	4	4
Gavin Monroe	<ul style="list-style-type: none">● Working on frontend refactor	5	5

Comments:

Had a rather busy start to the semester. Will be having more productive next two weeks - Jet J

Upcoming Items:

For more detail, please reach out to one of the team members if you lack access to our [JIRA board](#).

- Begin to pull configuration, etc. from MongoDB (Zane)

- Continue adding routes for existing playbooks (Zane)
- Hook backend to azure ansible (Rishabh and Zane)
 - Create fully functional azure-ansible api
 - Store and access secrets and values
 - Perform necessary logic for frontend interpretation
- Create pages for creating templates (Jet and Gavin)
 - Create page that can list all templates using backend API
 - Create functionality to create new templates
 - Fully customizable form for template creation
- GCP ansible playbook creation (Adis)
 - Playbooks to create/destroy/and manage vms
 - Document these playbooks
 - Register parsable data
- Setup CI/CD (group)
 - Setup Continuous integration with gitlab on server
 - Create a test and production environment
 - Integrate CI/CD with Discord (will be our notification platform) and Jira (Issue tracker)