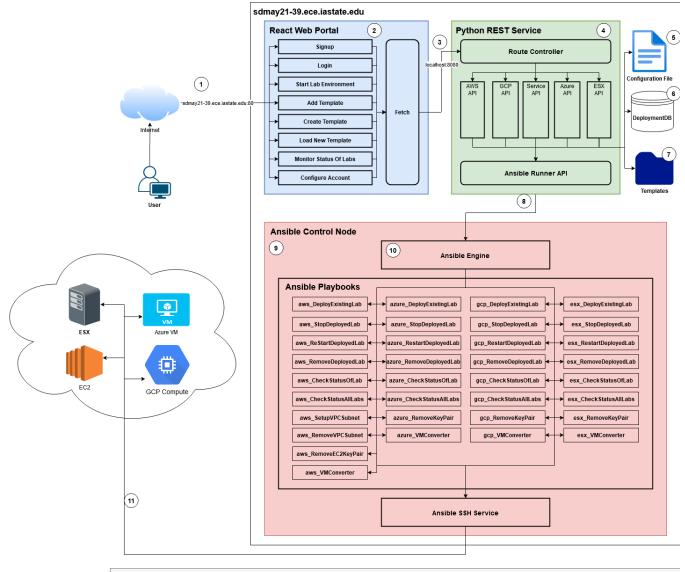
Overall Design

General idea is to have a UI that interacts with a backend engine. The backend will have functions to validate labs, maintain deployed lab, and track status. There will be a repository that holds the labs that PwC uses that will be accessed from the backend and from the cloud platform.

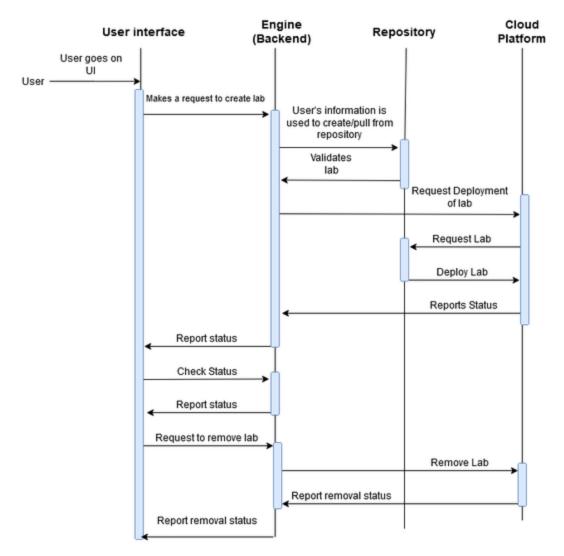
Architecture diagram



User accesses the interface.
A React Framework interface containing pages for each use case.
The UI calls a backend service via HTTP REST requests.
A Python REST service that handles the logic for each use case.
A configuration file containing the configuration for several platform accounts.
Database containing the tracking ID and information on every deployed lab.

- 7. Filesystem folder containing templates to be used as predefined lab environments
- 8. The REST service utilizes an Ansible API that sends commands to Ansible 9. The Ansible Control node is a system that contains the Ansible
- 10. The Ansible Engine calls playbooks and runs them to interact with cloud 11. Ansible accesses the cloud platform via a secure SSH session

Sequence Diagram



https://app.diagrams.net/#G1n4mc4DX7A2t3n4u9iJBTIBu8qg6QWiVJ

General Flow

