

# CS350 Milestone 1 - Design

Evan Duffield

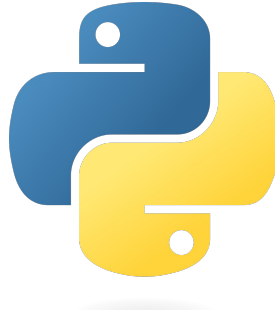
# Frontend

- Easy solution for static web pages
- Most group members are javascript novices, chance for basic scripting



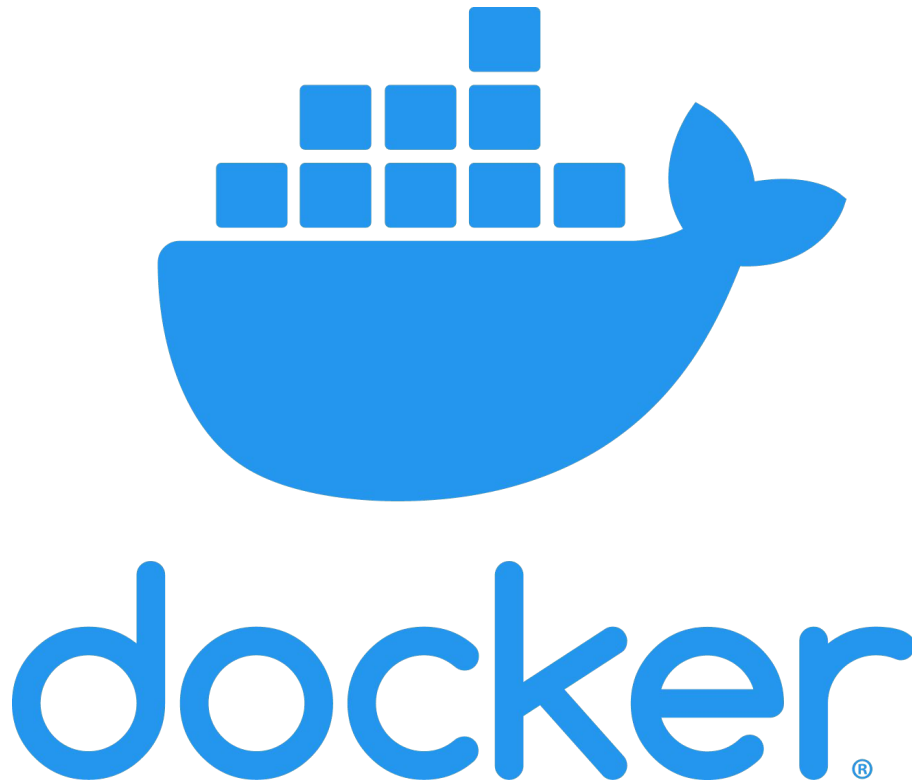
# Backend

- Python/Django as our entire team can use python
- PostgreSQL. Reliable traditional SQL database that suits our application



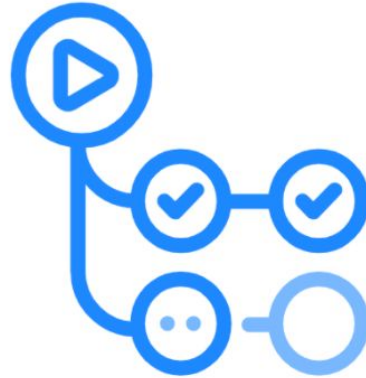
# Container

- Docker will allow for a cross platform development between users of Windows and Linux in our group
- Docker has containers setup for Django and PostgreSQL
- Website will be run on AWS instance, will allow for Linux hosting and easy updating during CI/CD



# CI/CD

- GitHub actions can be linked to the master branch to build a docker container on commit
- Docker container can then be sent to the AWS EC2 server to update the code on the server



## GitHub Actions

# Hosting

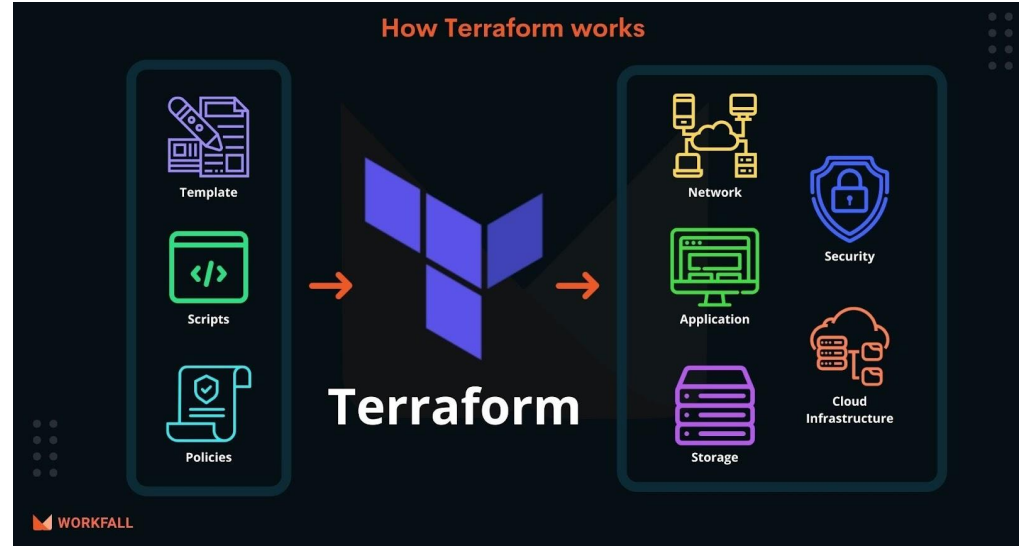
- An AWS EC2 container is a cheap way to host the website 24/7 in the cloud
- Docker container can then be sent to the AWS EC2 server to update the code on the server



Amazon  
**EC2**

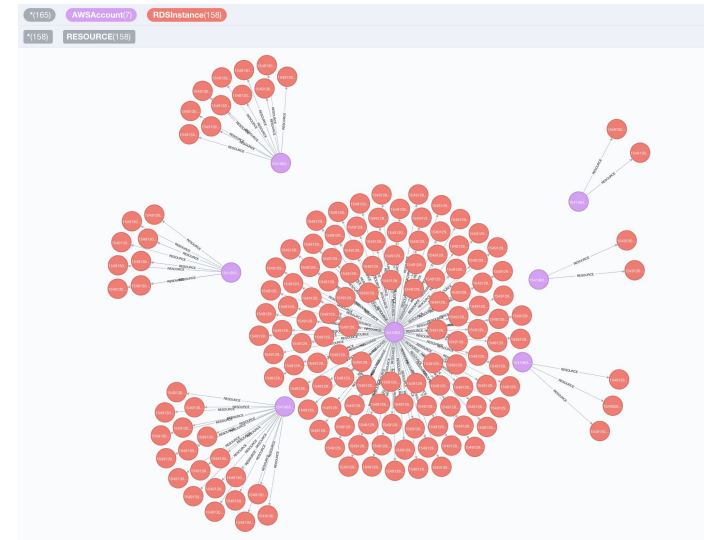
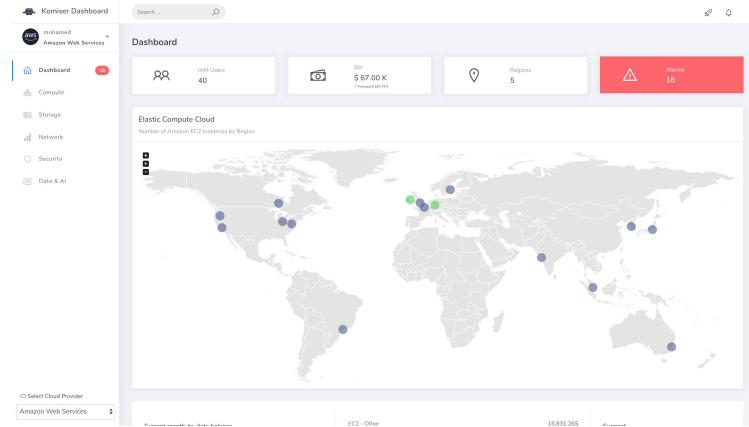
# Managing Hosting

- Terraform: helps manage a complex application with a scriptable configuration file
- Keeps all of the project resources in one place



# Managing Hosting

- Komiser: tracks all of your hosted cloud resources and breaks up your costs
- Cartography: Builds a relational graph of all of your resources to find any waste





# Markdown Updates

- Updated group readme with directions to setup Django application
- Filled out Design markdown templates

```
20
21 ### Project Notes - Setting up a development environment - Evan Duffield
22
23 1. Clone the repository
24
25 2. Create a python virtual environment
26
27 ```
28 python3 -m venv venv
29
30 // Windows
31
32 python -m venv venv
33 ```
34
35 3. Enter the python virtual environment
36
37 ```
38 source ./venv/bin/activate
```

```
## Milestone 1 - Design - Evan Duffield

* What did I do?
  * Worked with team on preferred tech stack
  * Decided on technology and tools for LinkedIn clone
  * Setup dev tools and readme for team
* What will I do? Design for Milestone 2
  * Link our GitHub repository to an AWS server
* What challenges do I have?
  * Need to setup AWS accounts for groupmembers
* Engineering investment
  * I spent about 6 hours on Design for Milestone 1
  * Our team met for 2 hours
* 5-minute Video Demo
  * Video is linked as a txt in the Design markdown file
```

Thanks for watching!