Team SMS2CCQ

Super Messaging Solution 2 Cloudy Cluster Queue

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Project: CCQBot with Twilio

Goal: Use Twilio to build a chat bot that allows user to submit jobs and check status via text message
Team SMS2CCQ

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Agenda

- Overview
- Approach & Solution
- Challenges
- Solution
- Demo
- Future Steps
Overview

Goal: Use Twilio to build a chat bot that allows user to submit jobs and check status via text message

Main Components:

- Cloudy Cluster
- Twilio
- Python Script - Integrate & Automate
Approach & Solution

- **Divide and Conquer!**
  - Team Divided into roles based on skill set

- **CCQ Integration - Christian**
  - Links phone number to Twilio Account to CCQ
  - Communication between Twilio and CCQ

- **Twilio - Avery + Cindy**
  - Python Script that receives, and sends text message back to user
    - Submit, Delete, Status on Jobs in CCQ
  - Automated status updates
  - Helpme command
Challenges

- Learning Python from scratch
- Communication between Twilio & CCQ
  - Job ID retrieval from CCQ and implementation into Twilio
- SSH Keychain not accessed by Python on Mac
- User Experience
  - Automated Status Updates vs. Manual Status SMS
- Networking Issues
  - Twilio doesn’t allow URL setting
  - Docker doesn’t allow easy network changes
Cloudy Cluster Integration

Interacted with CCQ Client to submit, delete, get status of messages
DEMO TIME
Future Steps

- Result Output
  - Location
  - GPU Information
  - Visual Output
- Improve UX
  - User chooses updates, frequency of notifications, output
  - Text Message Formatting
  - Emojis
- Network Linking
  - Linking User to different servers
Questions?

https://github.com/NotChristianGarcia/sms2ccq.git
Thank you!