Team Name: sdmay23-17
Team Members:
- Rian Lamarque
- David Wolfe
- Joseph Hunter
- Elijah Hanson
- Thomas Ruminski

Report Period: 3/25 - 4/7

Summary of Progress
- **IoT Infrastructure**
  - Successfully used an MQTT test client to publish downlink messages from AWS to individual sensors
- **AWS Architecture**
  - Added some permission scoping, began implementing OpenSearch
- **Mobile App Development**
  - Started working on formatting the app for iPads and different sized mobile devices. Also started looking into unit test coverage needed for our app.

Pending Issues
- **IoT Infrastructure**
  - Waiting for final part to arrive
- **AWS Architecture**
  - No outstanding issues
- **Mobile App Development**
  - No outstanding issues

Plans for upcoming report period
- **IoT Infrastructure**
  - Use the MQTT API to send downlink messages from our mobile application
  - Assemble basestation when parts arrive
- **AWS Architecture**
  - Remove old roles and policies, continue ensuring full functionality
  - Fix API key vulnerability
- **Mobile App Development**
  - Format UI for different devices, write tests, and create a build for iOS.

Contributions by person

- Tom Ruminski
    - Team Role: IoT Infrastructure
    - Contributions: Created function to convert our hex packets to base64, used an MQTT test client to debug published messages
    - Hours: 7
- David Wolfe
    - Team Role: IoT/Mobile App Development.
    - Contributions: Began testing and reporting on security vulnerabilities found in the communication between our mobile app and AWS infrastructure.
    - Hours: 10
- Rian Lamarque
    - Team Role: AWS Infrastructure
    - Contributions: Perform Attack Plan test and document them
    - Hours: 3
- Elijah Hanson
    - Team Role: AWS Infrastructure
    - Contributions: Helped with frontend to AWS testing
    - Hours: 5
- Joe Hunter
    - Team Role: Mobile App Development
    - Contributions: Starting writing tests for the mobile app as well as format the app for iPads.
    - Hours: 5