2020 Cloud IoT Services Homework Assignment #3

2020, 05, 04

Homework Assignment: Fire Management System

- 1. AWS IoT Core **Applications**
 - Two applications for the virtual IoT devices: Fire Detector (fire_detector) & Fire Sprinkler (fire_sprinkler)
 - One EC2-based application: Fire Management System (fire_management_system)

2. Three Device Gateway Topics

- 'fire/alarm'
 - fire_detector publishes a fire alarm to this topic when it detects fire. For every three seconds, it always publishes a fire alarm.
 - fire_management_system subscribes to this topic
- 'fire/sprinkler'
 - fire_management_system publishes an activation command to this topic if it finds the fire alarm correct.
 - fire_sprinkler subscribes to this topic
- 'fire/alert'
 - fire_management_system publishes a fire alert message to this topic
 - This topic is intended for broadcasting fire alert messages. Any system can subscribe to this topic.

3. **Permission Policies** for three Applications

Report Submission

- 1. **Deadline**: 2020. 05. 18 (Monday)
- 2. Report
 - Document
 - ① The **steps** to have been taken to accomplish the tasks: 한 일들을 단계별로 구체적으로 설명
 - ② The **screen snapshots**: Web Console & Node.JS code 실행 화면을 캡쳐
 - Node.JS code
 - ① Node.JS code (file sender & receiver): 실제 코드를 보고서에 포함