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Room Temperature Control and Fire Alarm/Suppression IoT Service Using MQTT on AWS

In this paper we build an MQTT(Message Queue Telemetry Transportation) broker on Amazon Web Service(AWS). The MQTT broker has been utilized as a platform to provide the Internet of Things(IoT) services which monitor and control room temperatures, and sense, alarm, and suppress fire. Arduino was used as the IoT end device connecting sensors and actuators to the platform via Wi-Fi channel. We created smart home scenario and designed IoT messages satisfying the scenario requirement. We also implemented the smart some system in hardware and software, and verified the system operation. We show that MQTT and AWS are good technical candidates for small IoT business applications.



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