

## DAFTAR PUSTAKA

- [1] GSM Association, "Executive summary," *Understanding the internet of Things(IoT)*, p. 1, 2014.
- [2] P. Newman, "IoT Report: How Internet of Things technology growth is reaching mainstream companies and consumers," *Business Insider*, 28 January 2019. [Online]. Available: <https://www.businessinsider.com/internet-of-things-report?IR=T>. [Accessed 26 Juny 2019].
- [3] K. L. Lueth, "State of the IoT 2018: Number of IoT devices now at 7B – Market accelerating," *IOT ANALYTICS*, 8 August 2018. [Online]. Available: <https://iot-analytics.com/state-of-the-iot-update-q1-q2-2018-number-of-iot-devices-now-7b/>. [Accessed 26 Juny 2019].
- [4] D. F. e. al., "An Over the Air Update Mechanism for ESP8266 Microcontrollers," in *International Conference on Systems and Networks Communications*, Athens, 2017.
- [5] H. C. e. al, "Internet of Things: Over-the-Air (OTA) Firmware Update in LightweightMesh Network," in *Asia-Pacific Conference on Communications*, Yogyakarta, 2016.
- [6] L. A. S. M. F. H. a. H. V. W. T. Lunardi, "Automated decision support iot framework," in *IEEE 21st International Conference on Emerging Technologies and Factory Automation (ETFA)*, Berlin, 2016.
- [7] N. Nikolov, "Research Firmware Update Over the Air from the Cloud," in *XXVII International Scientific Conference Electronics*, Sozopol, 2018.
- [8] e. a. Navjot Kaur Walia, "An IOT by Information Retrieval approach:Smart Lights controlled using WiFi," in *6th International Conference - Cloud System and Big Data Engineering*, Noida, 2016.
- [9] Arven, "PENELITIAN DAN PENGEMBANGAN GORDEN DAN LAMPU OTOMATIS MENGGUNAKAN SENSOR LDR BERBASIS ARDUINO," *UNIVERSITAS ISLAM INDONESIA*, Yogyakarta, 2018.
- [10] "ESP32 Overview," *Espressif*, [Online]. Available: <https://www.espressif.com/en/products/hardware/esp32/overview>. [Accessed 26 Juny 2019].
- [11] Espressif System, "ESP32 Datasheet," 2019. [Online]. Available: [https://www.espressif.com/sites/default/files/documentation/esp32\\_datasheet\\_en.pdf](https://www.espressif.com/sites/default/files/documentation/esp32_datasheet_en.pdf). [Accessed 26 Juny 2019].
- [12] MoD, "Wikimedia," 2013. [Online]. Available: [https://commons.wikimedia.org/wiki/File:Computer\\_Keyboard\\_MOD\\_45155531.jpg](https://commons.wikimedia.org/wiki/File:Computer_Keyboard_MOD_45155531.jpg). [Accessed 19 April 2016].

- [13] P. A. TRIVEDI, "Real Time Operating System (RTOS) With Its Effective Scheduling Techniques," *International Journal of Engineering Development and Research (IJEDR)*, vol. 1, no. 2, pp. 98-102, 2014.
- [14] P. M. d. Wisnu Jatmiko, *Real Time Operating System (RTOS) Teori dan Aplikasi*, Depok: Fakultas Ilmu Komputer Universitas Indonesia, 2015.
- [15] "What is An RTOS?," [Online]. Available: <https://www.freertos.org/about-RTOS.html>. [Accessed 30 Agustus 2019].
- [16] "About the FreeRTOS Kernel," [Online]. Available: <https://www.freertos.org/RTOS.html>. [Accessed 30 Agustus 2019].
- [17] "Features Overview," [Online]. Available: [https://www.freertos.org/FreeRTOS\\_Features.html](https://www.freertos.org/FreeRTOS_Features.html). [Accessed 30 Agustus 2019].
- [18] "FreeRTOS FAQ – Memory Usage, Boot Times & Context Switch Times," [Online]. Available: <https://www.freertos.org/FAQMem.html>. [Accessed 31 Agustus 2019].
- [19] J. Califano, "How to Approach OTA Updates for IoT," 19 Juny 2018. [Online]. Available: <https://dzzone.com/articles/how-to-approach-ota-updates-for-iot>. [Accessed 28 March 2019].
- [20] B. Ray, "Key Business Benefits of Firmware Over-The-Air," 1 Desember 2016. [Online]. Available: <https://www.link-labs.com/blog/business-benefits-firmware-over-the-air>. [Accessed 1 September 2019].
- [21] J. Eiden, "WHY INTELLIGENT OTA FIRMWARE UPDATES ARE CRITICAL FOR IOT PRODUCTS," 9 Mei 2019. [Online]. Available: <https://blog.particle.io/2019/05/09/ota-firmware-updates/>. [Accessed 1 September 2019].
- [22] "Secure your site with HTTPS," Google, Inc, [Online]. Available: <https://support.google.com/webmasters/answer/6073543?hl=en>. [Accessed 31 March 2019].
- [23] "What is HTTPS?," Comodo CA Limited, [Online]. Available: <https://www.instantssl.com/ssl-certificate-products/https.html>. [Accessed 31 March 2019].
- [24] "What is https?," [Online]. Available: <https://www.tutorialsteacher.com/https/what-is-https>. [Accessed 31 March 2019].
- [25] "HTTPS Everywhere FAQ," [Online]. Available: <https://www.eff.org/https-everywhere/faq>. [Accessed 31 March 2019].
- [26] C. P. a. Y. Zhu, "How to Deploy HTTPS Correctly," 2010 November 15. [Online]. Available: <https://www.eff.org/https-everywhere/deploying-https/>. [Accessed 2019 September 28].

- [27] E. Rescorla, "The Transport Layer Security (TLS) Protocol Version 1.3," August 2018. [Online]. Available: <https://tools.ietf.org/html/rfc8446>. [Accessed 28 September 2019].
- [28] "Handshaking," techopedia, [Online]. Available: <https://www.techopedia.com/definition/7517/handshaking>. [Accessed 17 October 2019].
- [29] [Online]. Available: <http://mqtt.org/>. [Accessed 1 September 2019].
- [30] R. P. a. H. N. A.R. Hudan, "Sistem Kendali Berbasis Mikrokontroler Menggunakan Protokol MQTT pada Smarthome," *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. I, pp. 445-455, 2017.
- [31] The HiveMQ Team, "MQTT Topics & Best Practices - MQTT Essentials: Part 5," [Online]. Available: <https://www.hivemq.com/blog/mqtt-essentials-part-5-mqtt-topics-best-practices/>. [Accessed 03 September 2019].
- [32] The HiveMQ Team, "Quality of Service 0,1 & 2 - MQTT Essentials: Part 6," 16 Februari 2015. [Online]. Available: <https://www.hivemq.com/blog/mqtt-essentials-part-6-mqtt-quality-of-service-levels/>. [Accessed 03 September 2019].
- [33] E. b. A. B. a. R. Gupta, "MQTT Version 3.1.1 Plus Errata 01," OASIS, 10 Desember 2015. [Online]. Available: <http://docs.oasis-open.org/mqtt/mqtt/v3.1.1/errata01/os/mqtt-v3.1.1-errata01-os-complete.html>. Latest version: <http://docs.oasis-open.org/mqtt/mqtt/v3.1.1/mqtt-v3.1.1.html>. [Accessed 19 September 2019].