The concept of the Internet of Things emerged a long time ago, having enormous development in sensing devices and every-day-objects connected to the internet. With current internet infrastructure, wireless communication plays a vital role in IoT devices allowing them to transmit messages. Therefore, the vitality of these messages lies in authentication. Numerous key management techniques have also been introduced to provide a secured transmission over the internet. In the context of IoT, many protocols have been devised for authenticated and secured transmission, including XMPP, AMQP, and LWM2M. Addition to above, MQTT and CoAP are also extensively used protocols in most M2M communication. This survey paper is an exploration of these protocols and also exemplify the comparison between them.

References


Index Terms

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Keywords

Internet of Things, IOT, MQTT, COAP, Messaging Format of MQTT and CoAP, Security in MQTT and CoAP