**Compare and contrast MQTT with other communication protocols**

**Instructions**

This lesson covered MQTT as a communication protocols. There are others, including AMQP and HTTP/HTTPS.

Research these both and compare/contract them with MQTT. Think about power usage, security, and message persistence if connections are lost.

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| Protocol | Power Usage | Security | Message Persistence |
| MQTT | Low (lightweight, ideal for IoT) | Supports TLS & authentication | Yes (QoS levels ensure message delivery) |
| AMQP | Higher (more overhead) | Strong security with encryption & authentication | Yes (built-in message queuing & storage) |
| HTTP/HTTPS | High (not optimized for IoT) | Secure with TLS (HTTPS) | No (stateless, requires additional handling) |

* **MQTT** is best for IoT due to low power use and message persistence.
* **AMQP** is enterprise-grade with strong security and queuing but uses more power.
* **HTTP/HTTPS** is widely supported but inefficient for real-time IoT messaging.