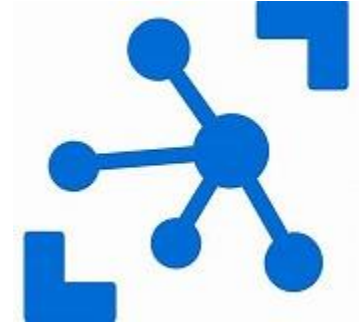


# 01 | Azure IoT Hub

# Introduction to Azure IoT Hub



IoT Hub: Connect, monitor, and manage billions of IoT assets:

- **Establish** bi-directional communication with billions of IoT devices
- **Authenticate** per device for security-enhanced IoT solutions
- **Register** devices at scale with IoT Hub Device Provisioning Service
- **Manage** your IoT devices at scale with device management
- **Extend** the power of the cloud to your edge device

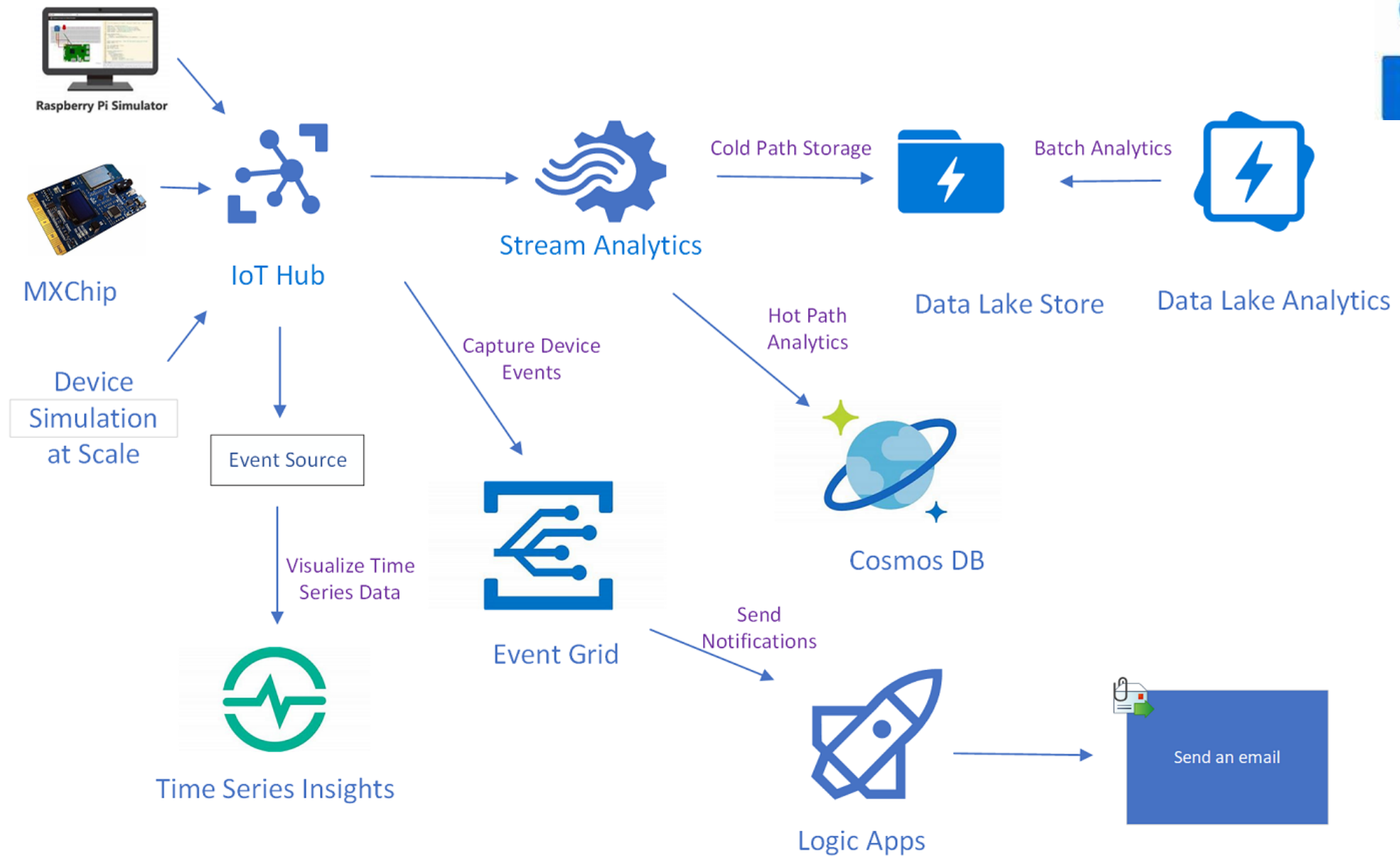
# Introduction to Azure IoT Hub



Azure IoT Hub is a fully managed service that enables reliable and secure bidirectional communications between millions of IoT devices and a solution back end. Azure IoT Hub:

- Provides multiple device-to-cloud and cloud-to-device communication options. These options include one-way messaging, file transfer, and request-reply methods.
- Provides built-in declarative message routing to other Azure services.
- Provides a queryable store for device metadata and synchronized state information.
- Enables secure communications and access control using per-device security keys or X.509 certificates.
- Provides extensive monitoring for device connectivity and device identity management events.
- Includes device libraries for the most popular languages and platforms.

# Introduction to Azure IoT Hub





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