Remote patient monitoring

Architectural overview

Predict and prevent future incidents by combining IoT and intelligence to optimize treatments, using Azure to remotely monitor patients and analyze the massive amounts of data generated by medical devices.

1. Securely ingest medical sensor and device data using Azure IoT Hub.
2. Securely store sensor and device data in Cosmos DB.
3. Analyze sensor and device data using a pre-trained Cognitive Services API or a custom developed Machine Learning model.
4. Store Artificial Intelligence (AI) and Machine Learning results in Cosmos DB.
5. Integrate AI and Machine Learning results using PowerBI, while preserving Role-Based Access Control (RBAC).
6. Integrate data insights with backend systems and processes using Logic Apps.

Products

- IoT Hub
- Cognitive Services
- Azure Active Directory (AD)
- Logic Apps
- Azure Cosmos DB
- Machine Learning
- Alerts
- Security Center
- RBAC and built-in roles
- Key Vault
- Power BI Embedded
- App Insights
- Operations Management Suite

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