Azure IOT Solutions

Skills Learned

- Describe the benefits and usage of
 - IoT Hub
 - IoT Central
 - Azure Sphere

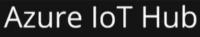


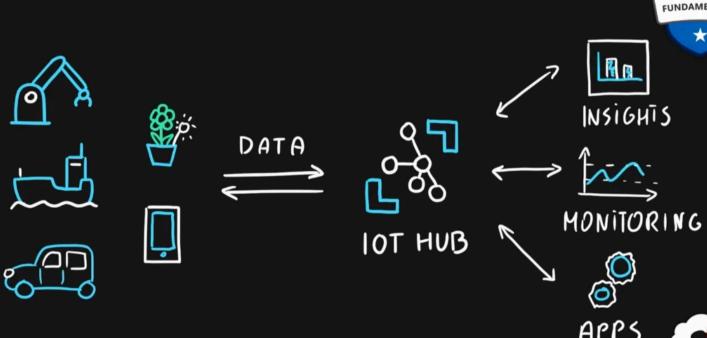
Microsoft CERTIFIED FUNDAMENTAL:

Internet of Things

Internet of Things (IoT) is a network of internet connected devices (IoT Devices) embedded in everyday objects enabling sending and receiving data such as settings and telemetry.



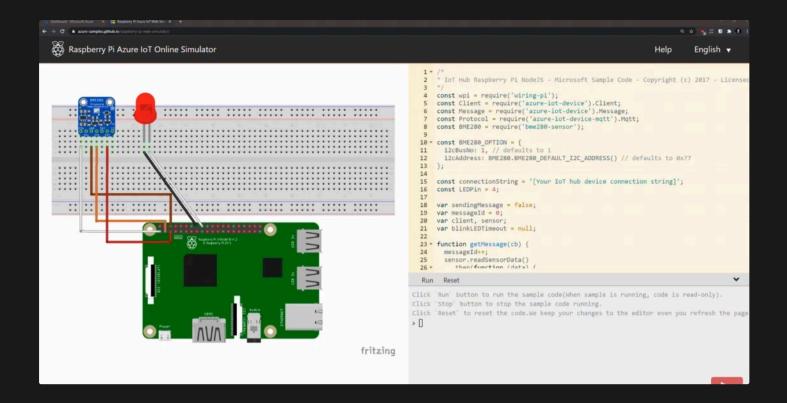


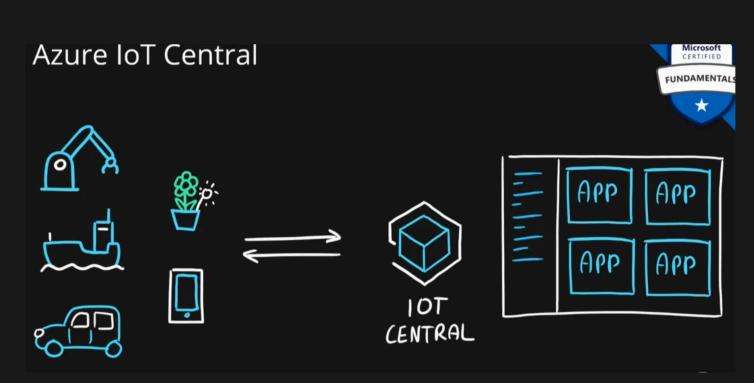


Azure IoT Hub

Key Characteristics

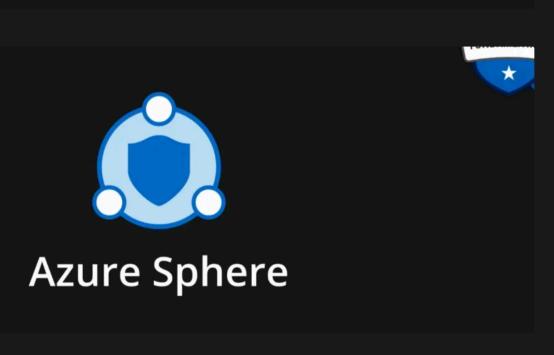
- Managed service for bi-directional communication
- Platform as a Service (PaaS)
- Highly secure, scalable and reliable
- Integrates with a lot of Azure Services
- Programmable SDKs for popular languages (C, C#, Java, Python, Node.js)
- Multiple protocols (HTTPS, AMQP, MQTT)

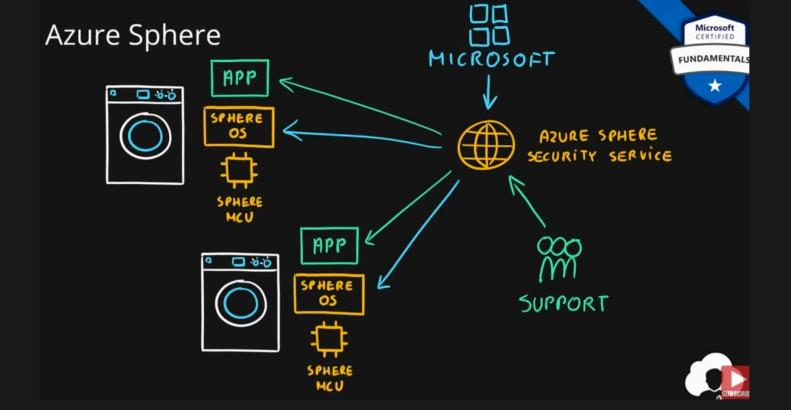




Key Characteristics

- IoT App Platform Software as a Service (SaaS)
- Industry specific app templates
- No deep technical knowledge required
- Service for connecting, management and monitoring IoT devices
- Highly secure, scalable and reliable





Key Characteristics

- Secure end-2-end IoT Solutions
 - Azure Sphere certified chips (microcontroller units MCUs)
 - Azure Sphere OS based on Linux
 - Azure Security Service trusted device-to-cloud communication

Summary

- IoT Hub managed service for bi-directional communication with IoT devices, PaaS
- IoT Central IoT application platform, dozen of functionalities, SaaS
- Azure Sphere end-2-end approach for building secure IoT solutions

