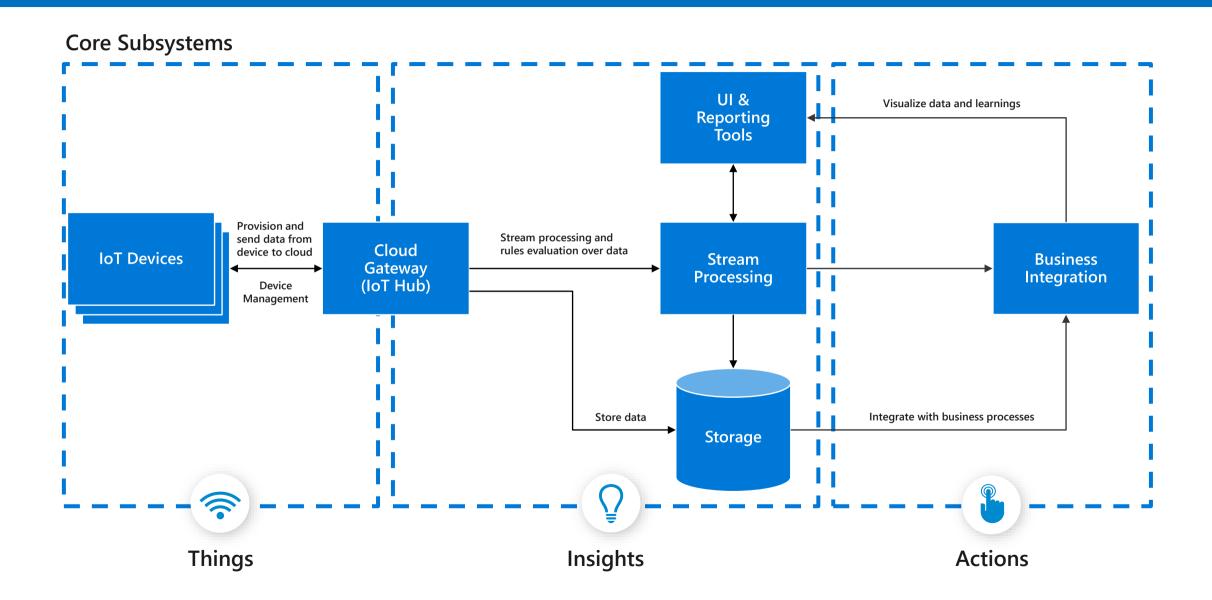
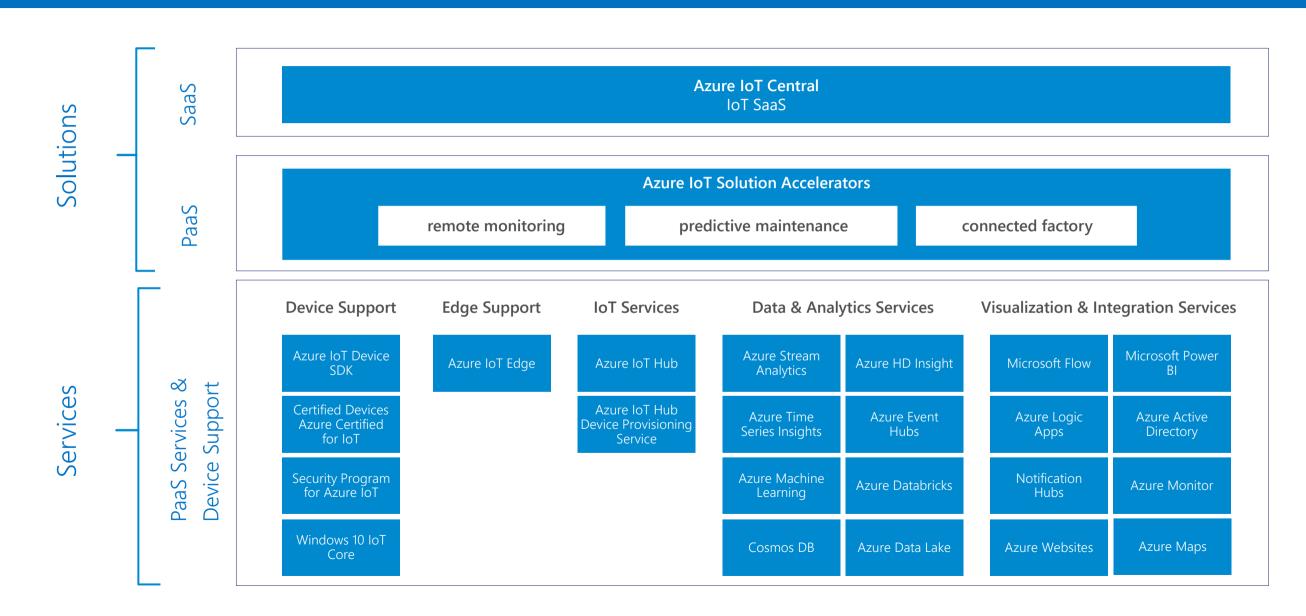
Azure IoT Transforming your business



Azure IoT reference architecture



Comprehensive Set of Capabilities for IoT Solutions



Azure IoT Central





No cloud development expertise required

Properties Technique Techn

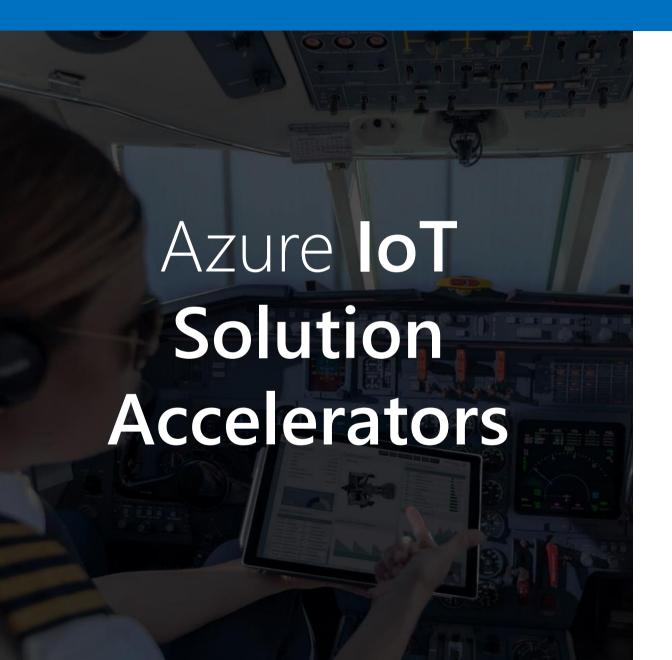
Monitoring rules and triggered actions

User roles and permissions

Analytics, dashboards and visualization

Risk-free trial with simplified pricing

Azure IoT Solution Accelerators







Open-source microservices based architecture



国 Dashboards, visualization and insights

() Workflow automation and integration

Command and control

Preconfigured solutions

Remote Monitoring

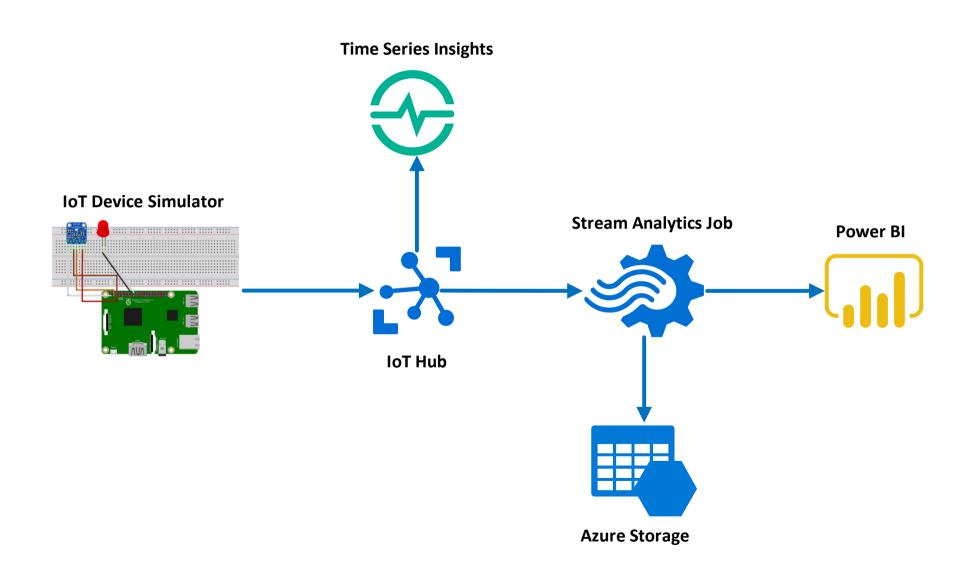
☆ Connected Factory

Predictive Maintenance



Device Simulation

IoT Lab Architecture



Azure IoT Hub



Bi-directional communication

- Millions of devices
- Multi-language, open source SDK
- HTTPS/AMQP/MQTT
- Send telemetry
- Receive commands
- Device management
- Device twins
- Queries and jobs



Enterprise scale and integration

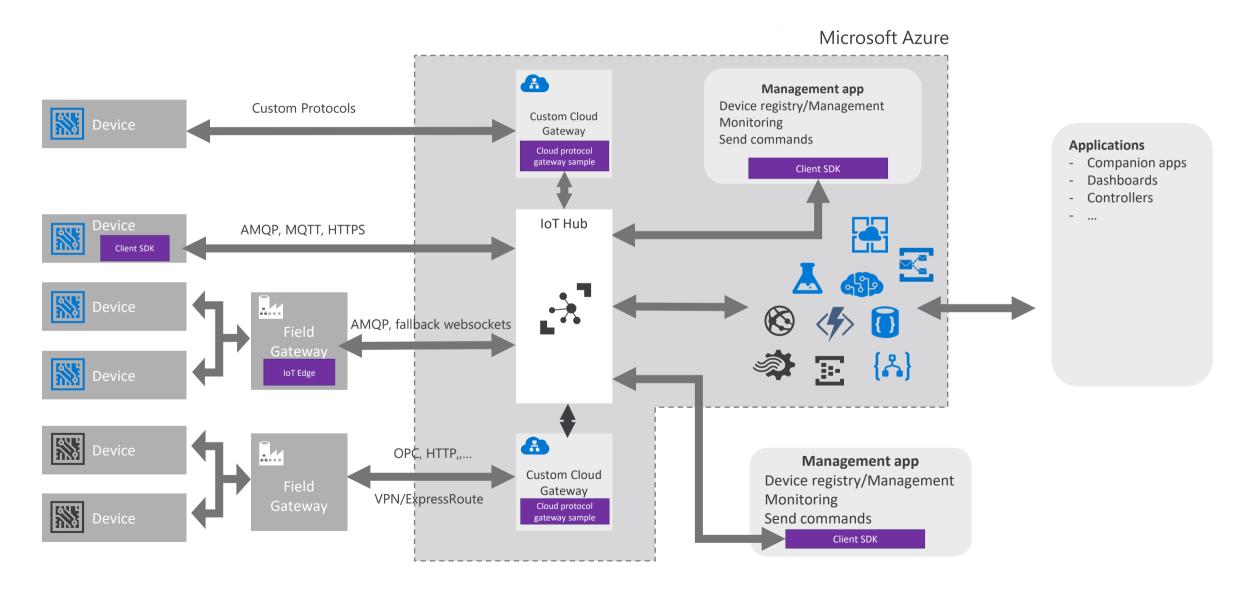
- Billions of messages
- Scale up and down
- Declarative message routes
- File upload
- Web sockets and multiplexing
- Azure monitor
- Azure resource health
- Configuration management



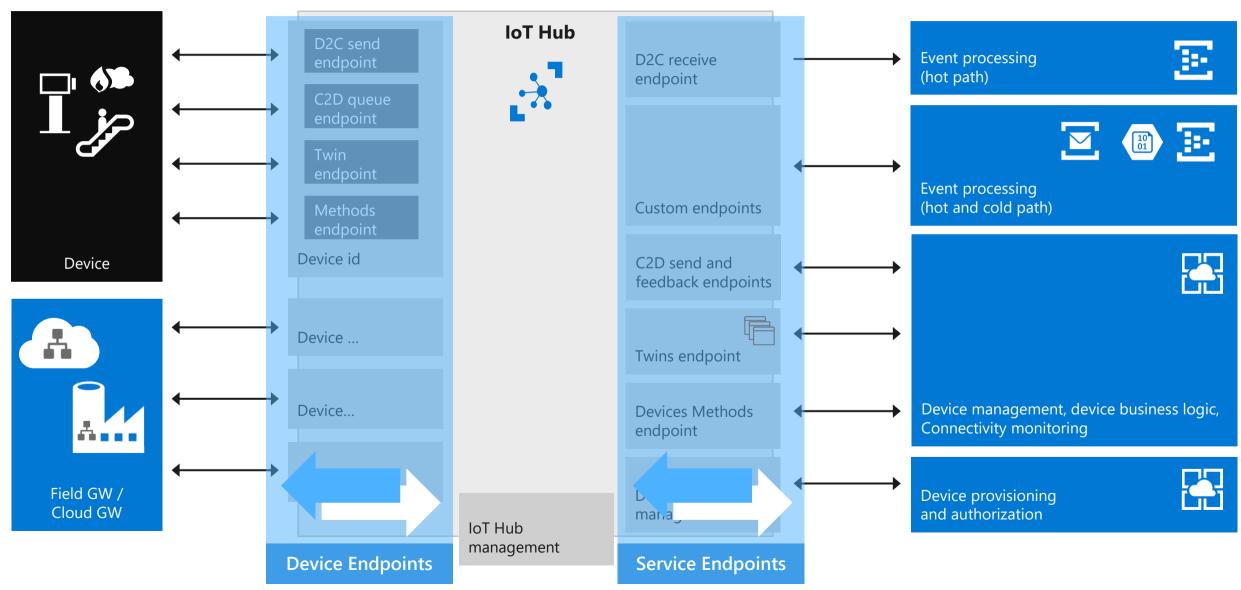
End-to-end security

- Per device certificates
- Per device enable/disable
- TLS security
- X.509 support
- IP whitelisting/blacklisting
- Shared access polices
- Firmware/software updates

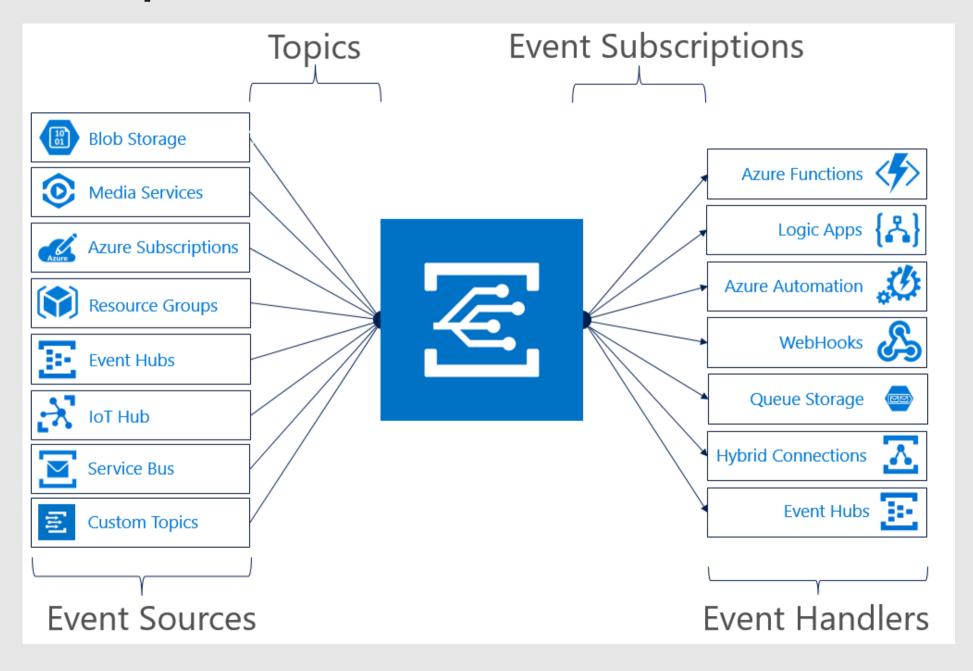
Azure IoT Hub



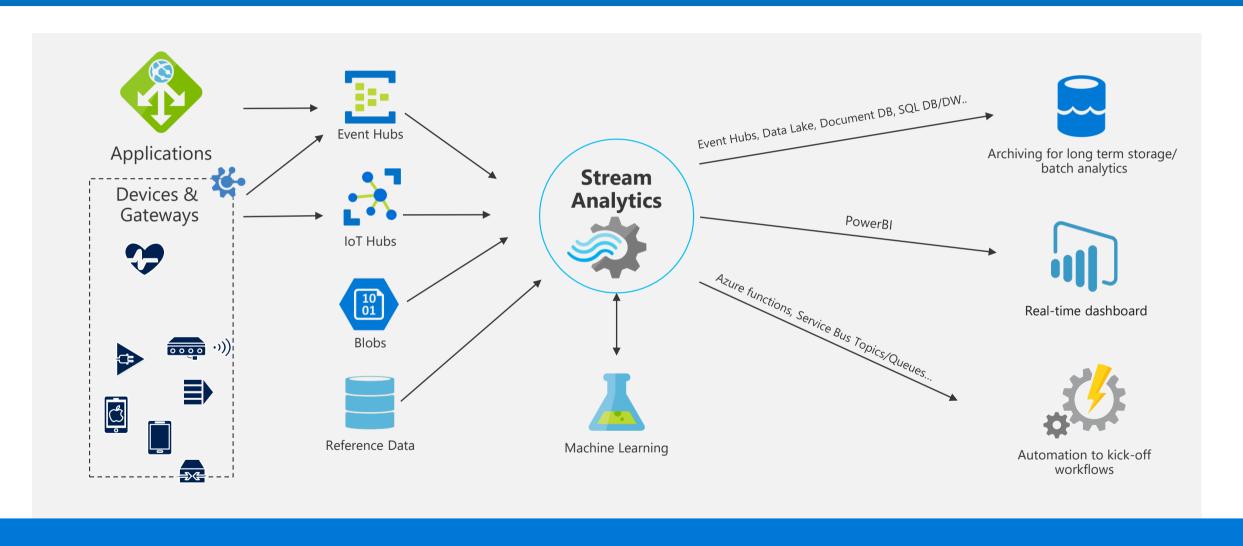
IoT Hub Key Functions



IoT Hub as publisher on Event Grid



Azure Stream Analytics

















Presentation & Action

Azure Time Series Insights

Azure Time Series Insights (TSI) is a fullymanaged service for the on-demand, interactive analytics of time series data.





Fully-integrated Data pipeline

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Data parsing And indexing



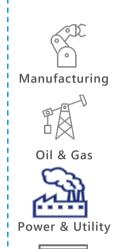
Scalable Storage



Interactive Analytics



Visualization and APIs





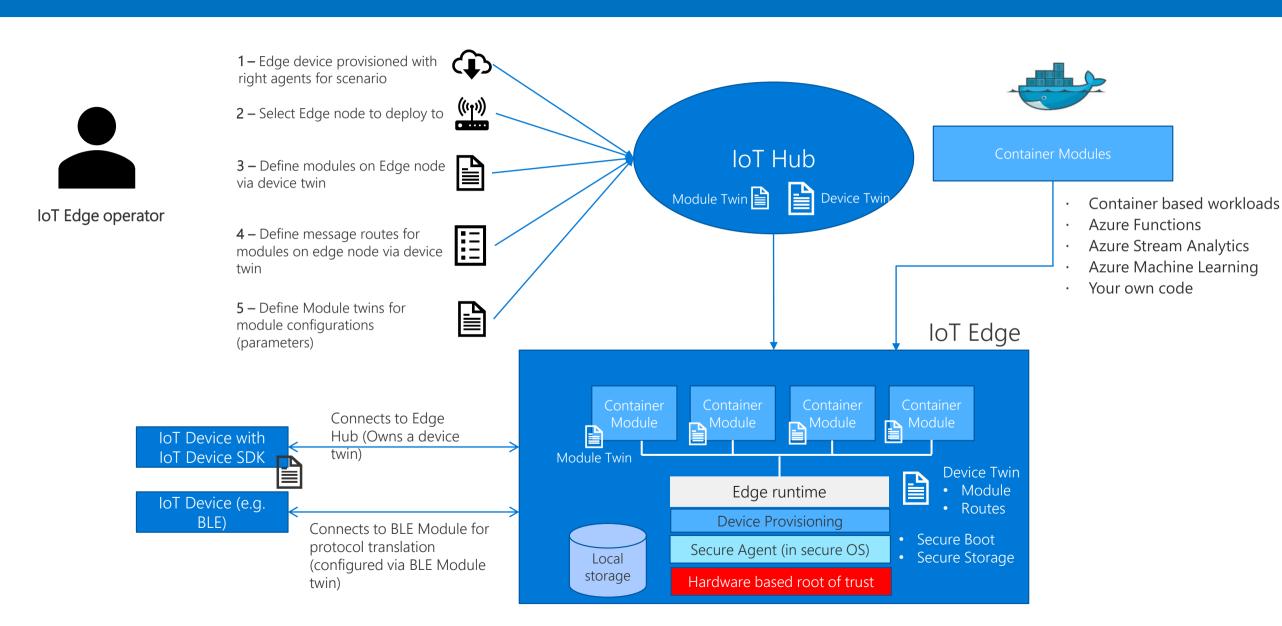


Smart Energy

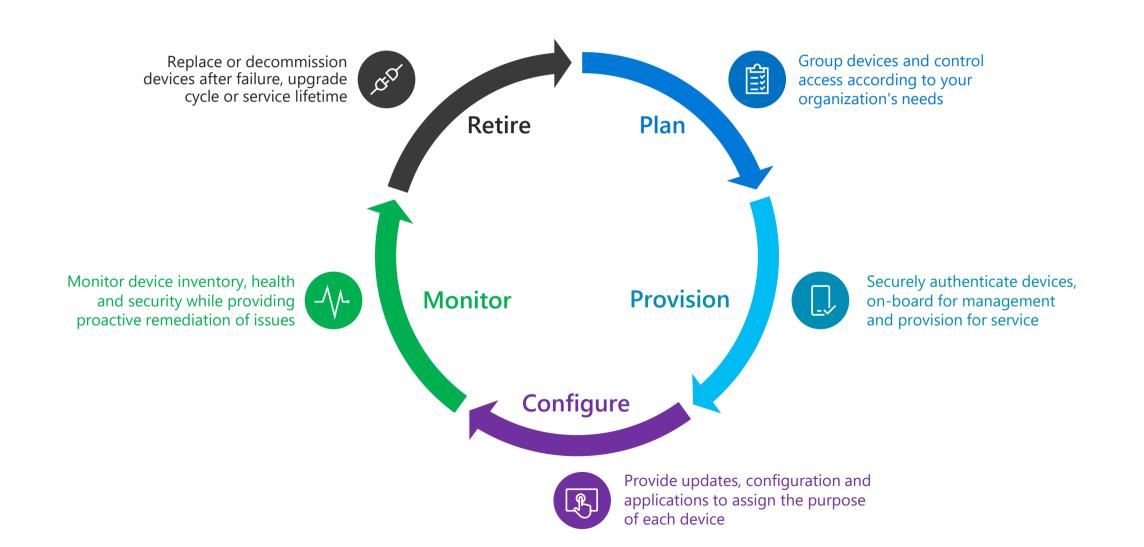


Time-series data heavy apps

Azure IoT Edge

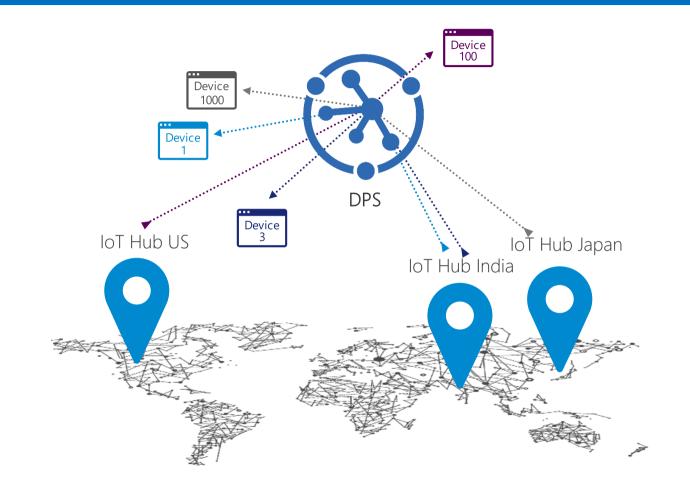


loT Device Management Lifecycle



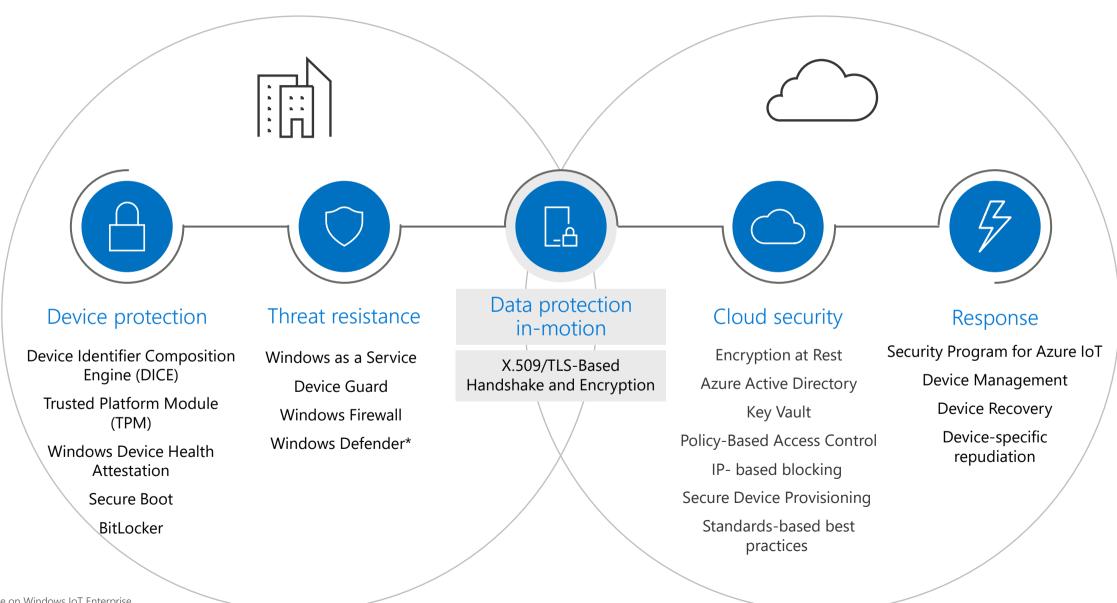
Azure IoT Hub Device Provisioning Service

- Simplify with zero touch provisioning
- Supports multiple locations
- Easiest way to mass-provision devices
- URL stability
- Enhanced security through HSM
- For any device compatible with IoT Hub
- Remove human error
- Minimize manual connection requirements
- Multitenancy support



DPS knows exactly which IoT Hub to connect and provision

Azure IoT Protection Stack



*Only available on Windows IoT Enterprise

