

## What is Machine Learning?



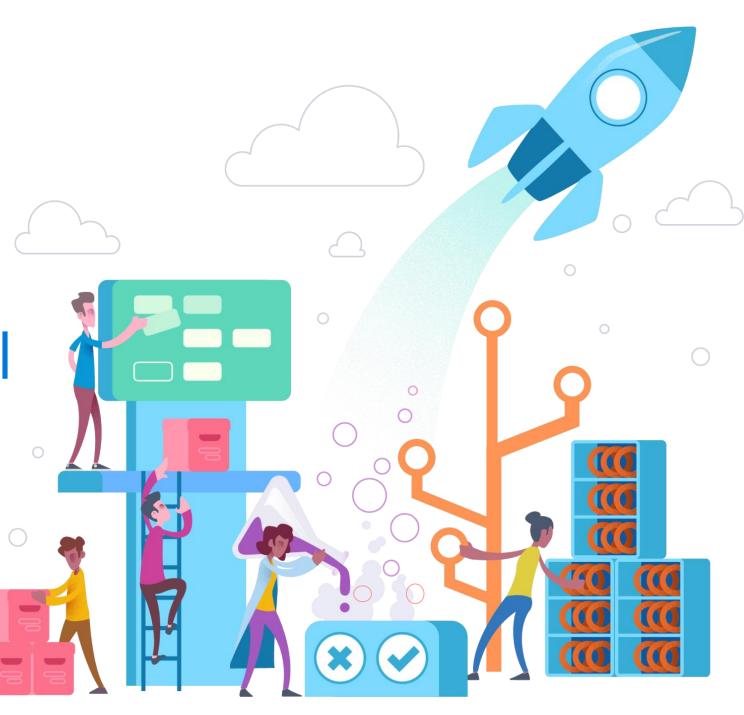
## Agenda

Life-Cycle of Model (ML+Ops)

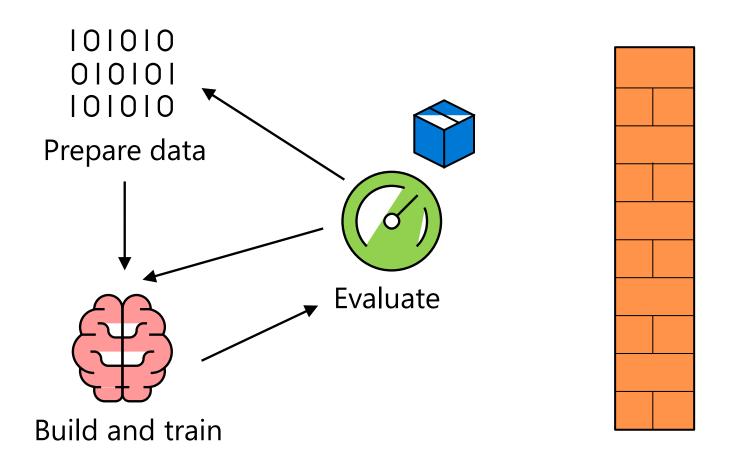
Deployment and Delivery in Edge

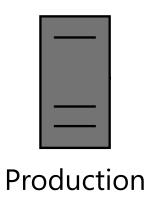


Life-Cycle of Model (ML+Ops)



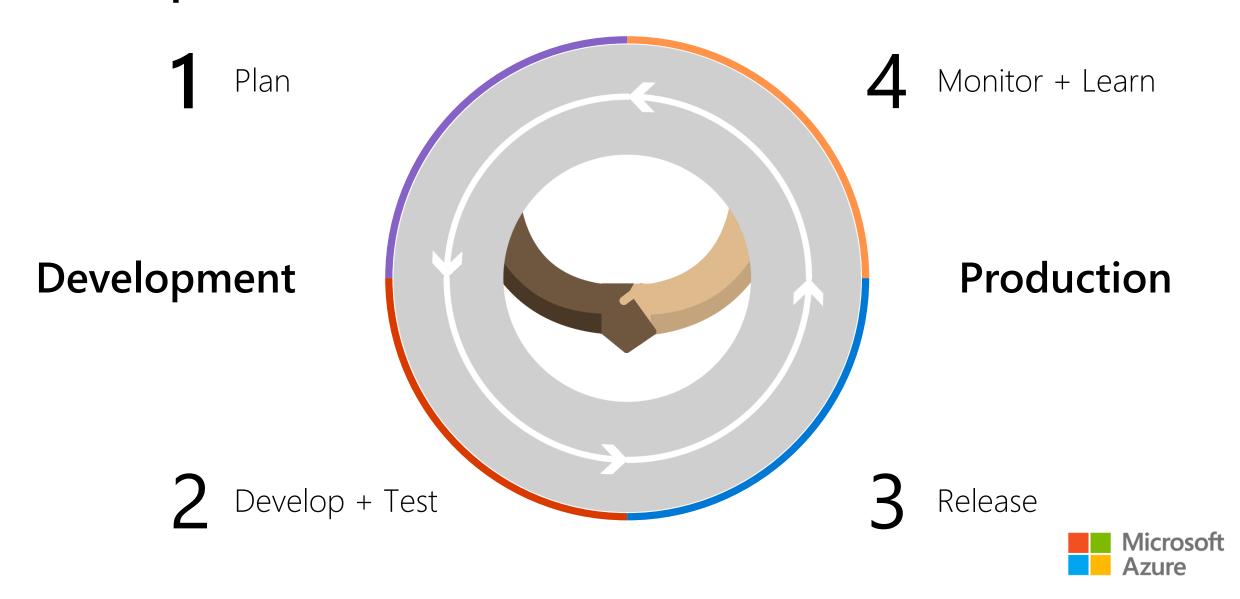
## **Machine Learning Process**



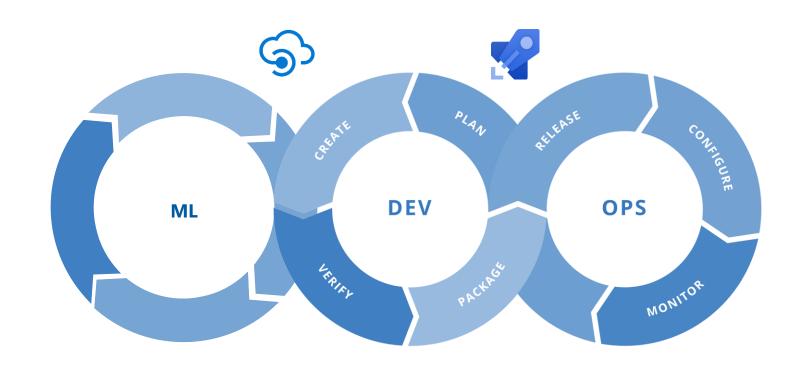




## **DevOps Process**



## MLOps = ML + DEV + OPS



Experiment
Data retrieval
Business understanding
Initial modeling

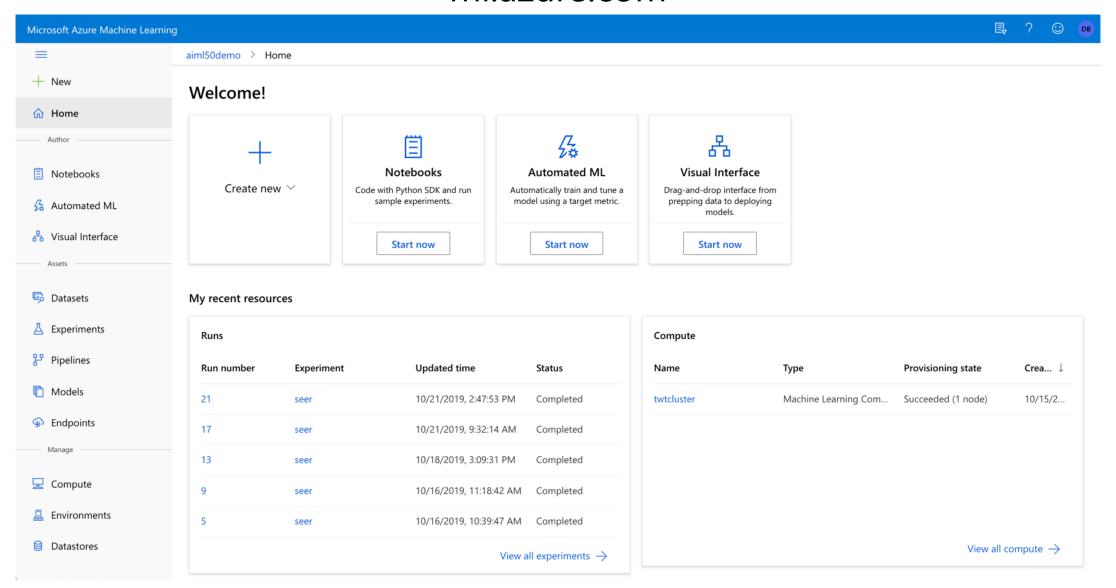
### Develop

+ Testing
Continuous Integration
Continuous Deployment

### Operate

Continuous Delivery Data Feedback Loop System + Model Monitoring

### ml.azure.com





## Introducing Azure DevOps



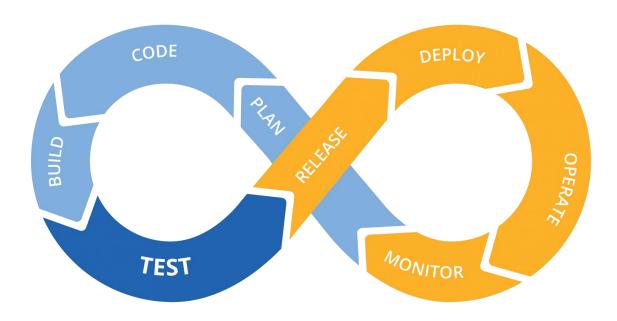
#### **Azure Pipelines**

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.



#### **Azure Repos**

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.



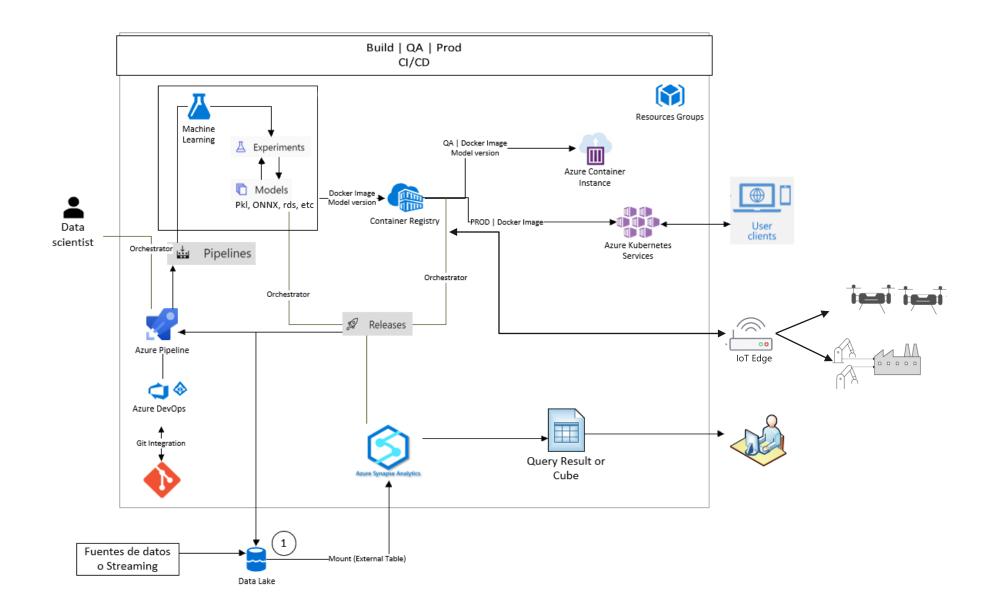
### CI/CD

Continuous integration and continuous delivery

- 1. Segregation for Stakeholder Responsibility
- 2. Risk Reduction
- 3. Short Feedback Loop



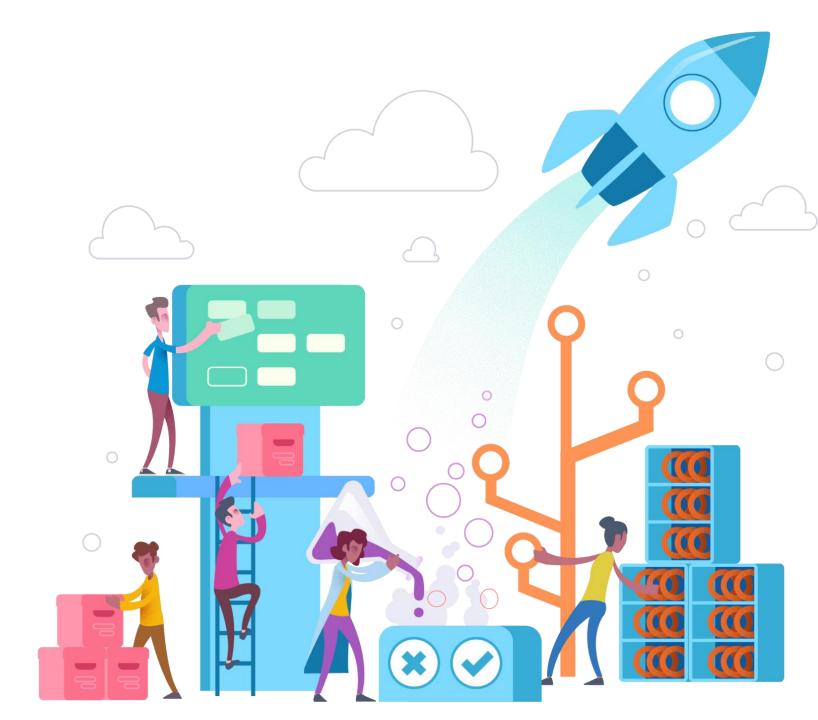
### **Arquitectura Alto Nivel Machine Learning**

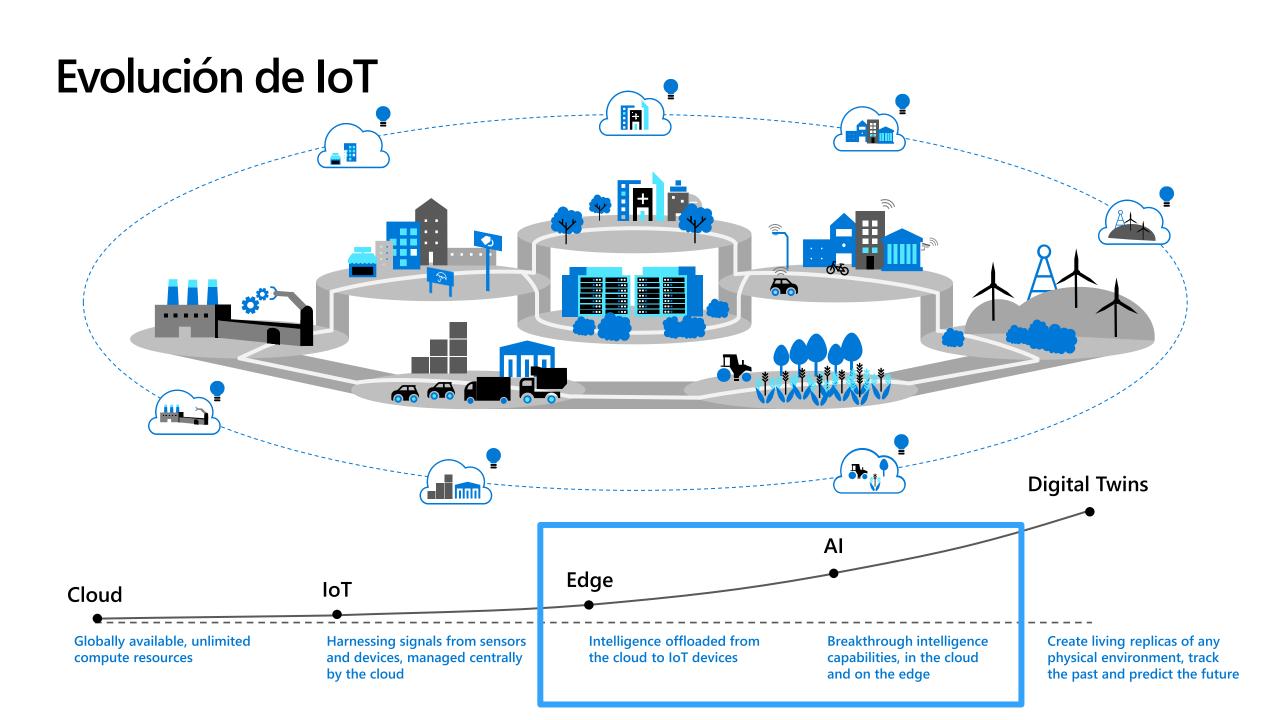


Microsoft



## Deployment and Delivery to the Edge

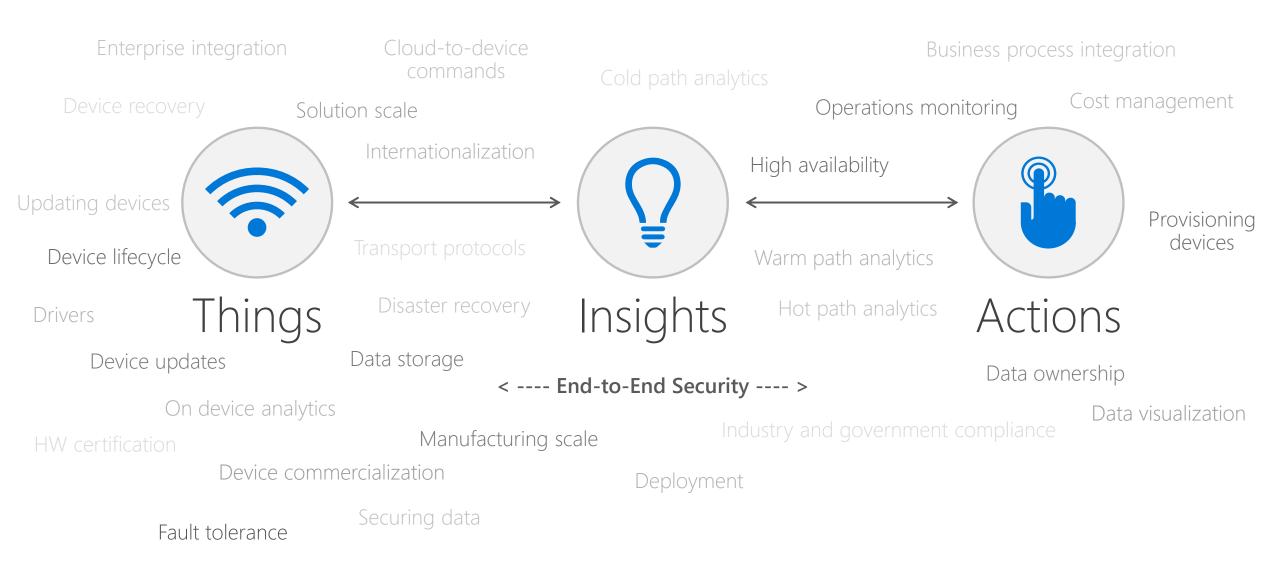




## loT es un concepto fácil de entender



## La implementación de loT es muy compleja



### Portafolio completo de IoT

### Soluciones (PaaS)

Azure IoT Suite (PaaS)

Soluciones preconfiguradas para escenarios típicos de loT

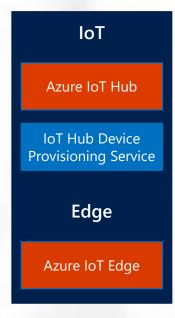
### Soluciones (SaaS)

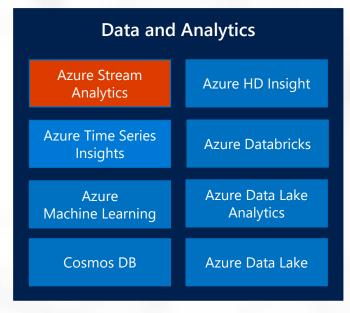
Microsoft IoT Central IoT SaaS

Microsoft Dynamics
Connected Field Service

### Tecnologías (PaaS)



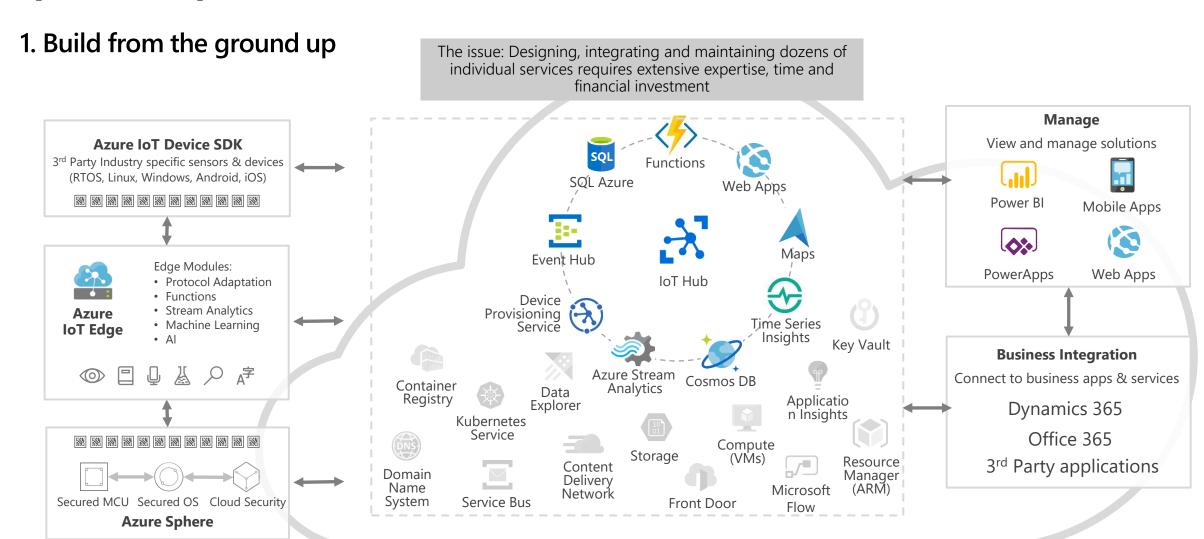








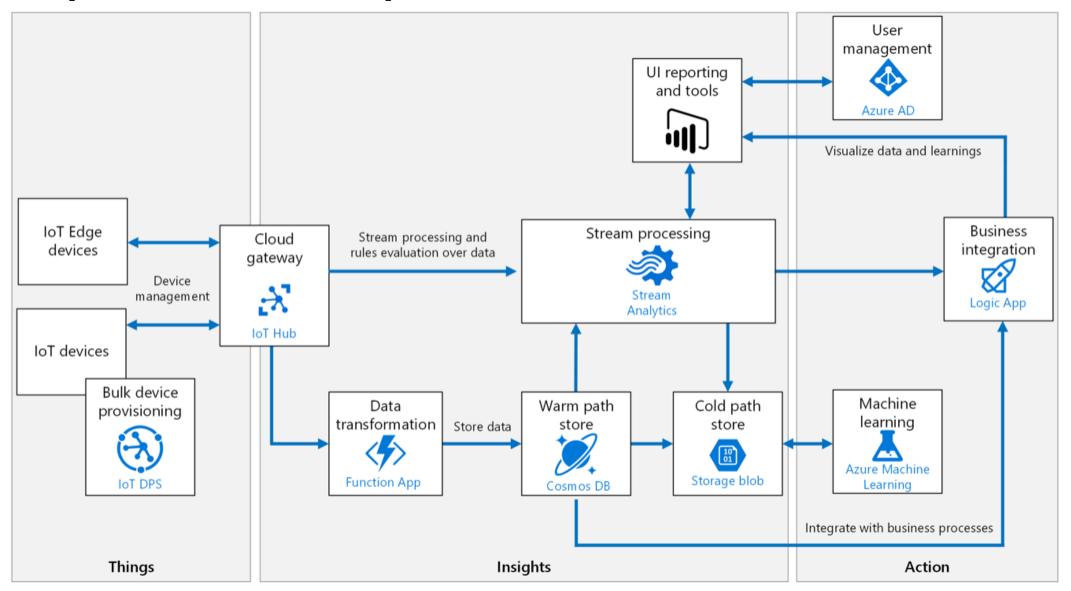
## Opciones para construir soluciones IoT





- Integrated view for CISO & SecOps personas to review enterprise security posture, including IoT solutions.
- · Holistic view of IoT solution security posture for DevOps and IoT solution managers to review and manage day to day security status

## **Arquitectura Conceptual**





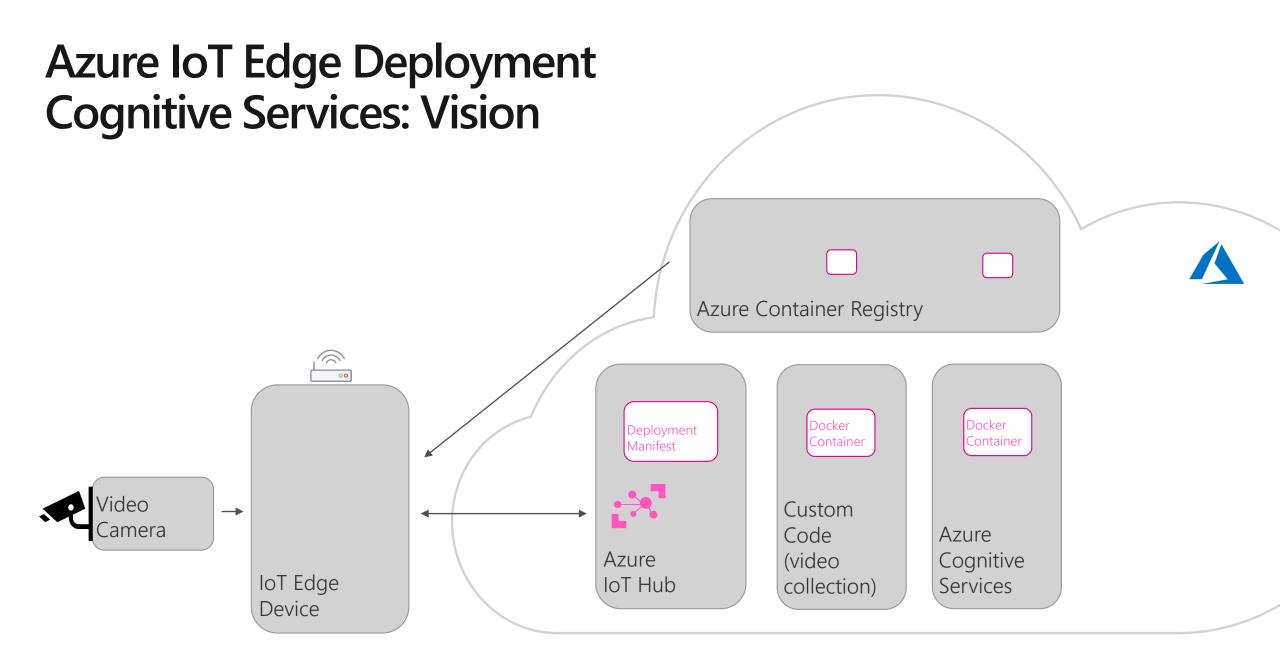
## Opciones para construir soluciones IoT

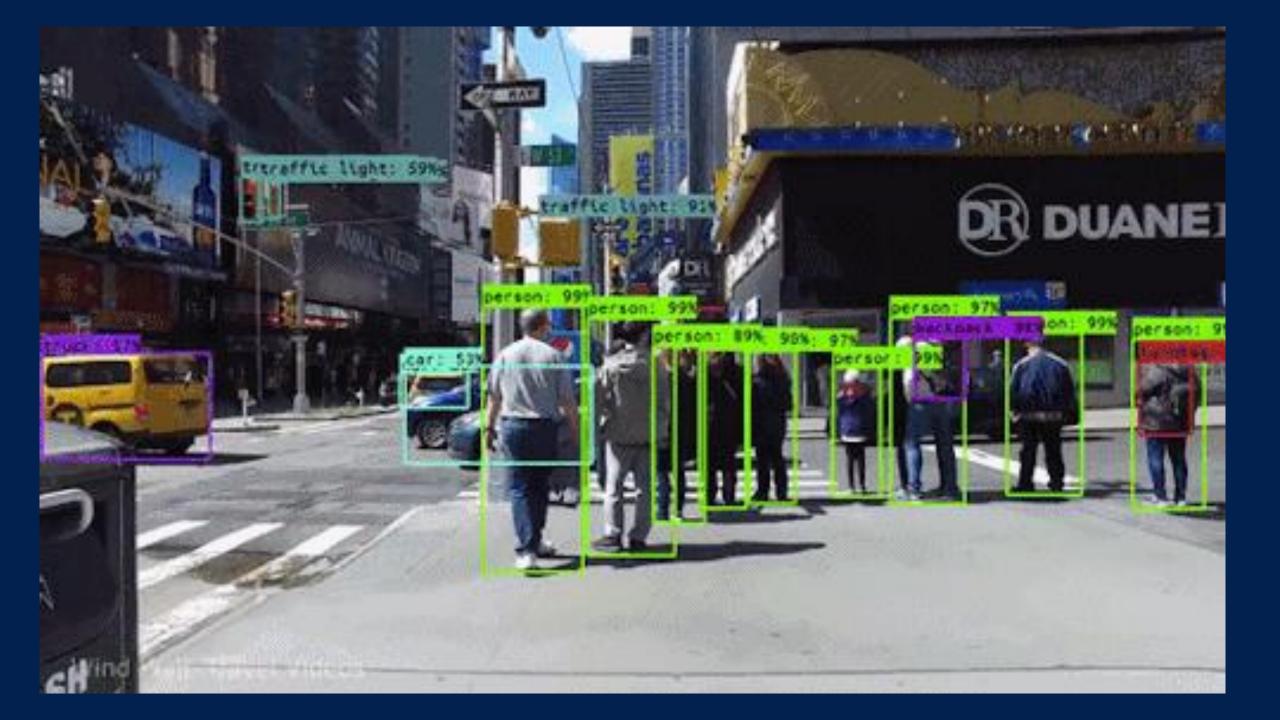
#### 2. Build with a fully managed IoT app platform

Center for IoT



Holistic view of IoT solution security posture for DevOps and IoT solution managers to review and manage day to day security status









# ¡Thank you!