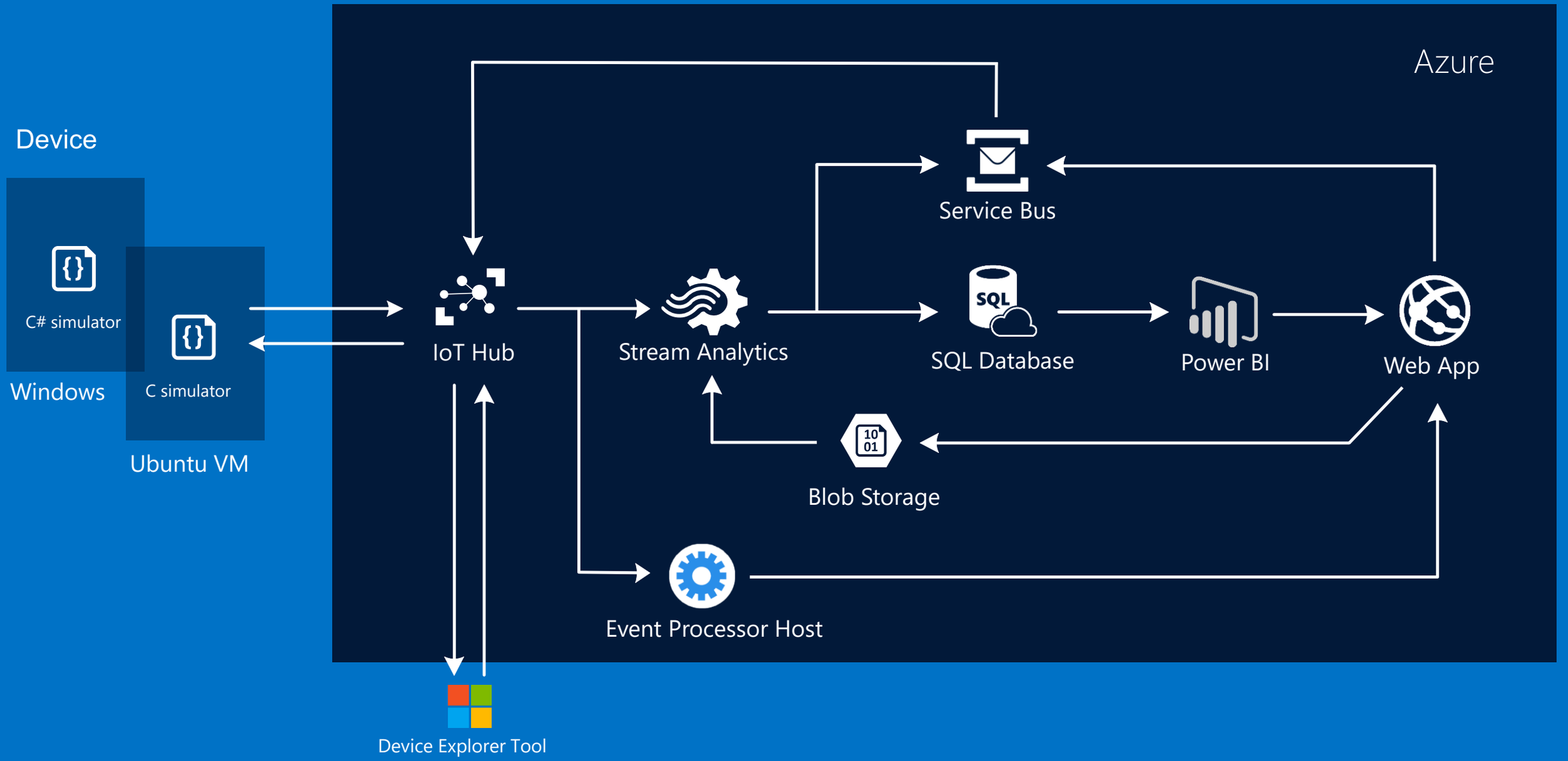
Workshop Overview

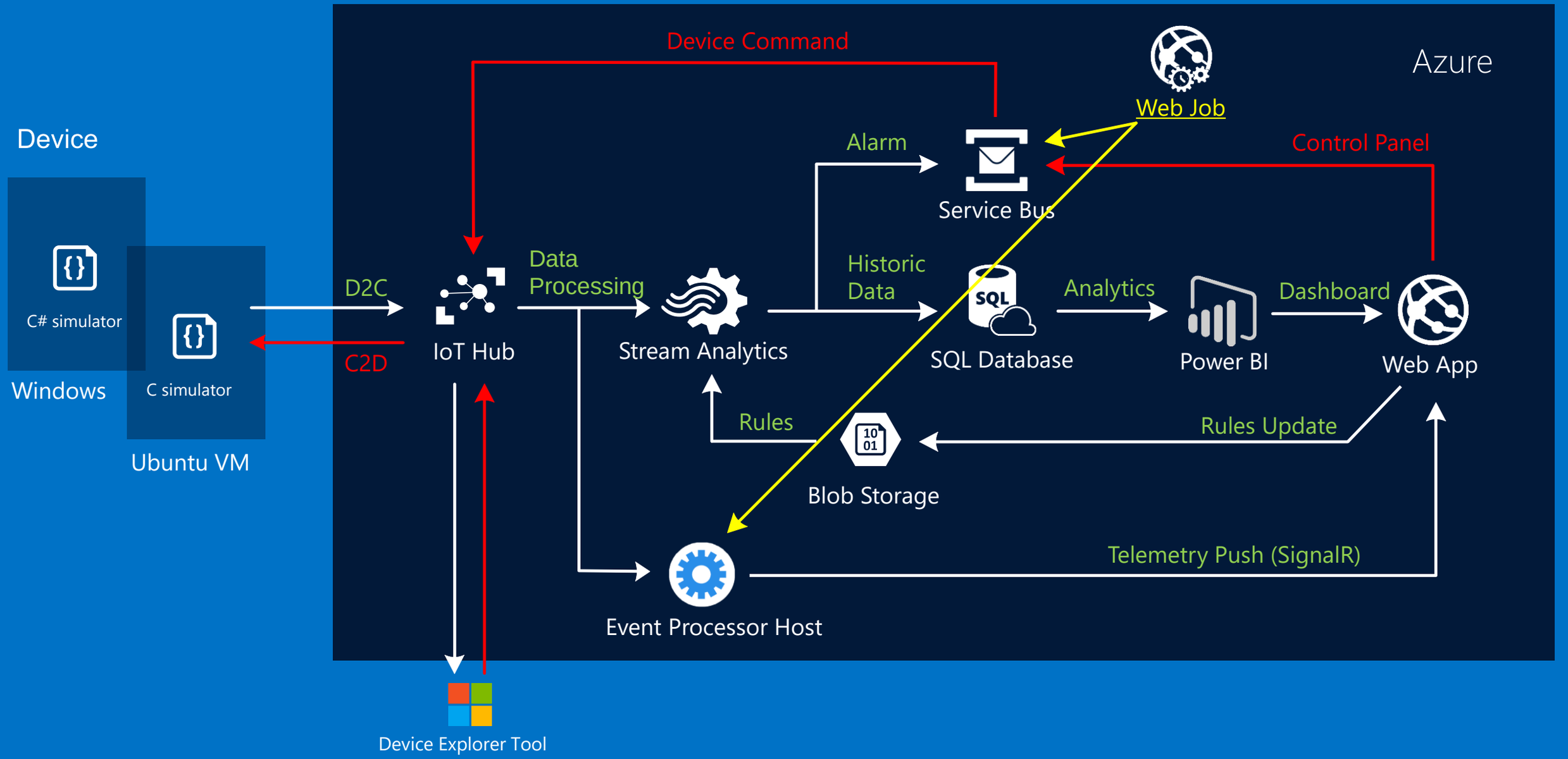
Live Demo

- Remote Monitoring of Wind Turbine
- Linux + Windows devices
- Real-time dashboard + Embedded Power BI
- http://windturbine-remotemonitoring.azurewebsites.net (Click here)

Architecture



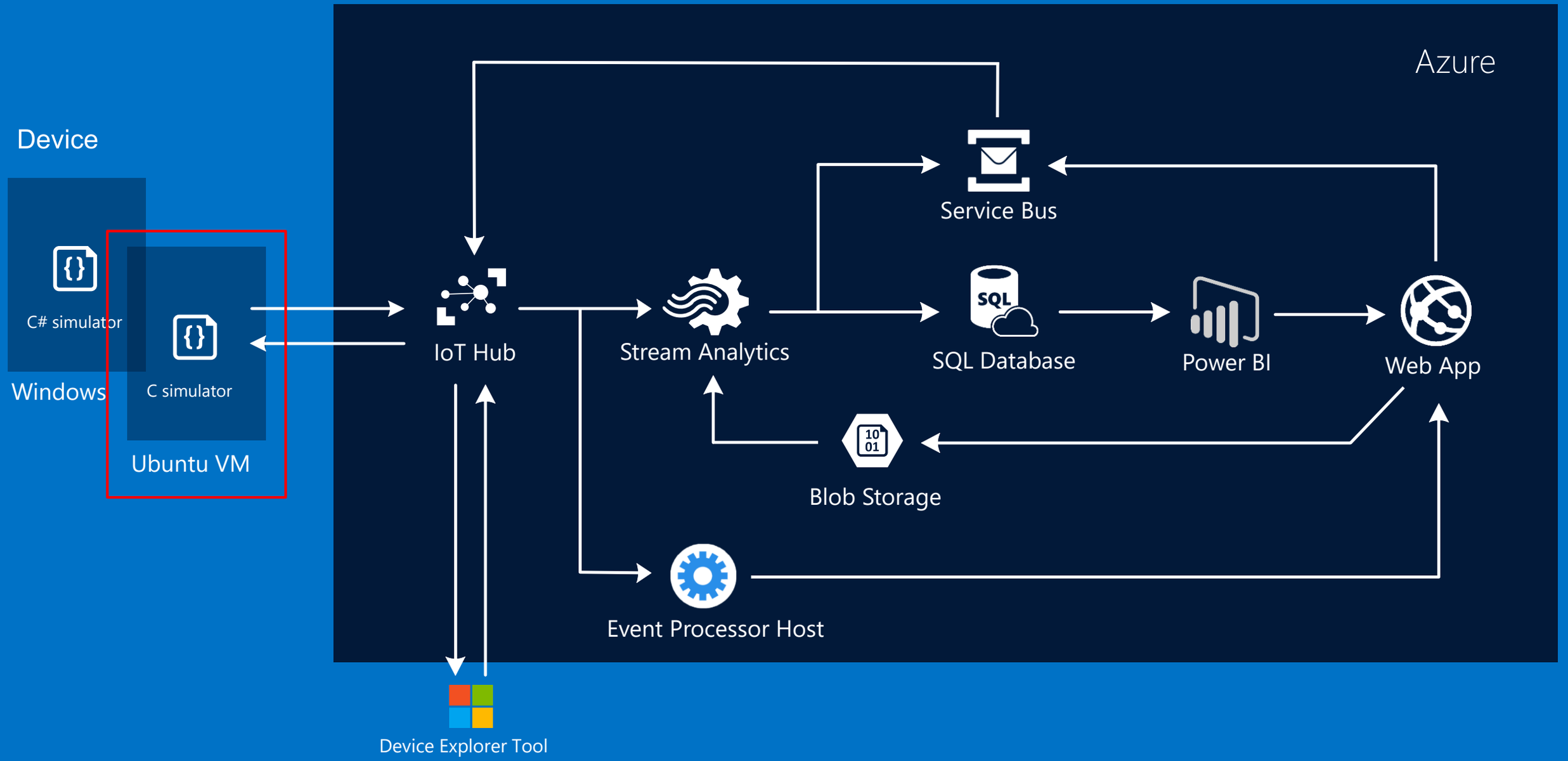
Architecture

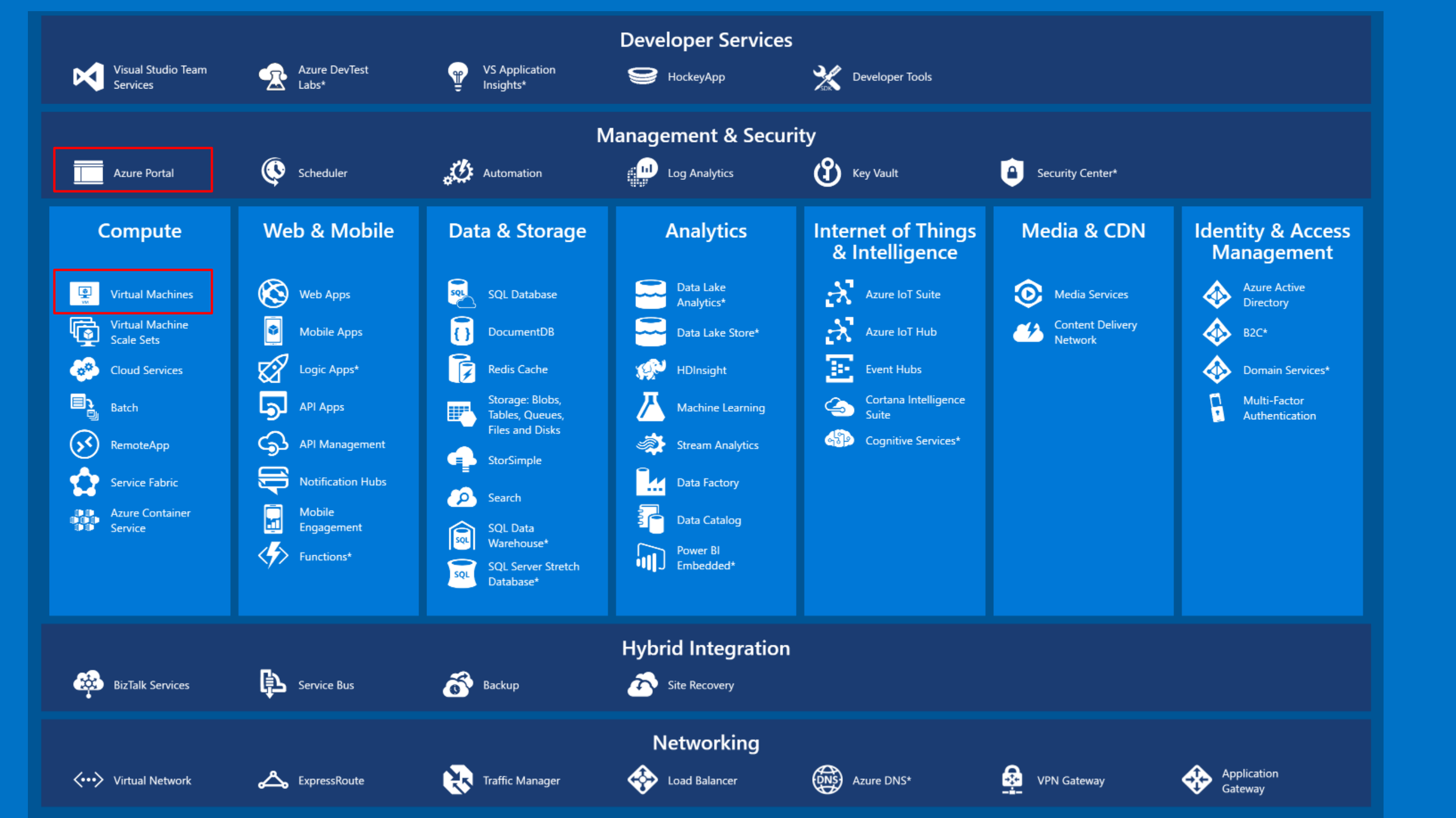


Connecting the Device to Cloud - Part I

Ubuntu Virtual Machine

HOL 1 – Ubuntu Virtual Machine




Developer Services
Visual Studio Team Services
Azure DevTest Labs*
VS Application Insights*
HockeyApp
Developer Tools
Management & Security
Azure Portal
Scheduler
Automation
Log Analytics
Key Vault
Security Center*
Compute
Virtual Machines
Virtual Machine Scale Sets
Cloud Services
Batch
RemoteApp
Service Fabric
Azure Container Service
Web & Mobile
Web Apps
Mobile Apps
Logic Apps*
API Apps
API Management
Notification Hubs
Mobile Engagement
Functions*
Data & Storage
SQL Database
DocumentDB
Redis Cache
Storage: Blobs, Tables, Queues, Files and Disks
StorSimple
Search
SQL Data Warehouse*
SQL Server Stretch Database*
Analytics
Data Lake Analytics*
Data Lake Store*
HDInsight
Machine Learning
Stream Analytics
Data Factory
Data Catalog
Power BI Embedded*
Internet of Things & Intelligence
Azure IoT Suite
Azure IoT Hub
Event Hubs
Cortana Intelligence Suite
Cognitive Services*
Media & CDN
Media Services
Content Delivery Network
Identity & Access Management
Azure Active Directory
B2C*
Domain Services*
Multi-Factor Authentication
Hybrid Integration
BizTalk Services
Service Bus
Backup
Site Recovery
Networking
Virtual Network
ExpressRoute
Traffic Manager
Load Balancer
Azure DNS*
VPN Gateway
Application Gateway

Let's Go

- Apply an azure subscription account
- Introduce to Azure Portal
- Provision an Ubuntu VM (Please see the 01-HOL-Ubuntu Virtual Machine file)