Microsoft Cloud Workshop: IoT and the Smart City (40531)

ID MS-40531  Price on request  Duration 1 day

Who should attend

This workshop is intended for Cloud Architects and IT professionals who have architectural expertise of infrastructure and solutions design in cloud technologies and want to learn more about Azure and Azure services as described in the "Summary" and "Skills gained" areas. Those attending this workshop should also be experienced in other non-Microsoft cloud technologies, meet the course prerequisites, and want to cross-train on Azure.

Course Objectives

By the end of this workshop, you will learn to use IoT Hub to manage IoT devices, configure and run the IoT Remote Monitoring starter solution to provision, manage, and simulate telemetry for IoT devices via IoT Hub SDKs, use Azure IoT Edge to collect vehicle telemetry data, detect anomalies, and send the summarized data to Azure IoT Hub as needed. In addition, you'll create a custom endpoint in IoT Hub to route critical alerts to a Service Bus Queue, create an Azure function that extracts critical alerts from the Service Bus Queue and stores them in Cosmos DB, as well as use Azure Time Series Insights to store, visualize, and query the large amounts of time series data generated by various IoT devices and conduct root-cause analysis and anomaly detection.

Course Content

Module 1: Whiteboard Design Session - IoT and the Smart City

Lessons

- Review the customer case study
- Design a proof of concept solution
- Present the solution

Module 2: Hands-on Lab - IoT and the Smart City

Lessons

- Set up IoT Remote Monitoring solution environment