

IoT and Blockchain

Description

In this one day course, you'll learn about two emerging technologies, the Internet of Things (IoT) and blockchain. Following an overview of these technologies, you'll learn how blockchain holds the potential to securely unlock business and operational value of IoT to support common tasks, such as sensing, processing, storing information, and communicating.

Who Should Attend

- Business and technical leadership who are seeking to understand how IoT and blockchain can work together to drive extended value.
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Outline

What is IoT?

- Internet of Things overview
- IoT History

How does IoT work?

- Components of an IoT device

Current IoT landscape

- Growth areas
- Privacy concerns

IoT design standards

- Zigbee networking protocol
- Thread group
- AllSeen Alliance/AllJoyn
- Open interconnect consortium/IoTivity
- Industrial internet consortium
- ITU-T SG20
- IEEE P2413
- Apple HomeKit

IoT design questions

- Questions to help you design an IoT solution

IoT architecture

- Stage 1 - Data generation (sensors/actuators)
- Stage 2 - Data acquisition systems
- Stage 3 - Edge processing
- Stage 4 - Long-Term data storage and blockchain

What is blockchain?

- History of blockchain

How does blockchain work?

- Benefits of blockchain
- Blockchain vs. conventional technology

IoT and blockchain benefits

- Benefits of adding blockchain to IoT
- Trust building
- Cost reductions
- Accelerate data exchanges
- Scaled security for IoT

IoT and blockchain use cases