



## Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

Cisco

- **Nível:** Avançado
  - **Duração:** 35h
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### Sobre o curso

The Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT) course prepares you to develop Internet of Things (IoT) applications for Cisco® IoT edge compute and network architecture. Through a combination of lessons and hands-on experience, you will learn to implement and deploy Cisco IOx applications using Cisco Field Network Director and Cisco Kinetic.

This course covers designing, deploying, and troubleshooting edge applications, and understanding the use of management tools, so you can control your industrial network and connected devices at scale.

This course will prepare you for the 300-915 Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT) exam.

This course will help you:

- Use network programmability and automation to streamline applications to reduce data size and complexity and strengthen security protocols.
- Gain hands-on experience in maximizing MQ Telemetry Transport (MQTT) protocol for lower power usage, faster data transmission, and more agility in device usage.
- Prepare for the 300-915 DEVIOT exam

### After completing this course you should be able to:

- Explain the fundamentals of Cisco IoT and list common devices involved
- List the common protocols, standards, and data flows of IoT
- Explain the Cisco IoT, common needs, and the corresponding solutions
- Explain how programmability can be used to automate and make operations, deployment, and support of Cisco IoT more effective
- Describe common Cisco IoT applications and how they apply to Cisco IoT use cases
- Explain the functions and use cases for Cisco security applications and Cisco IoT

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## Destinatários

This course is designed primarily for network and software engineers who are interested in learning about automation and programmability and hold the following job roles:

- Network engineer
- Systems engineer
- Consulting systems engineer
- Technical solutions architect
- Network administrator
- IoT Designer
- Network manager
- Sales engineer

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## Pré-requisitos

Recomendado:

- DEVASC – Developing Applications and Automating Workflows using Cisco Platforms
- DEVCOR – Developing Applications Using Cisco Platforms and APIs

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## Programa

- Defining Cisco IoT
- IoT Networking and Other Devices
- Examining IoT Protocols
- Examining IoT Standards
- Recognizing Cisco IoT Needs and Solutions
- Using Programmability with Cisco IoT
- Describing Cisco IoT Applications
- Defining Cisco Security Applications

### **Defining Cisco IoT**

- Describe Cisco IoT and the motivations behind it, as well common standards and protocols used in IoT and Cisco IoT

### **IoT Networking and Other Devices**

- List common devices used with Cisco IoT

### **Examining IoT Protocols**

- List the common protocols used with IoT

### **Examining IoT Standards**

- Describe Cisco IoT common standards and protocols used in Cisco IoT

### **Recognizing Cisco IoT Needs and Solutions**

- Describe the fundamentals of Cisco IoT operations

### **Using Programmability with Cisco IoT**

- Explain how programmability can be used to automate and make operations, deployment, and support of Cisco IoT more effective

### **Describing Cisco IoT Applications**

- Describe common Cisco IoT applications and how they apply to Cisco IoT use cases

### **Defining Cisco Security Applications**

- Describe Cisco security applications that form a foundation for Cisco IOT security design considerations