QOS

Implementing Cisco Quality of Service

40 horas | Profissional | Cisco

Cisco Continuing Education Credits

40 CE Credits

INTRODUÇÃO

The Implementing Cisco Quality of Service (QoS) training provides in-depth knowledge of QoS requirements, conceptual models (best effort, IntServ, DiffServ), and the implementation of QoS on Cisco platforms, including QoS for wireless and SD-WAN.

OBJETIVO DO CURSO

Explain the need for QoS and describe QoS policy fundamentals and models

Explain the use of MQC and AutoQoS to implement QoS

Describe mechanisms used to monitor QoS implementations

Use Cisco QoS queuing mechanisms to manage network congestion

Use Cisco QoS congestion avoidance mechanisms

Describe link efficiency mechanisms for bandwidth efficiency

Describe the need for wireless QoS in WLANs

Describe the need for QoS in modern Software-Defined Networks

Describe best practices for end-to-end QoS deployment

PÚBLICO-ALVO

Pre- and post-sales technical engineers, Network architects responsible for designing multiservice networks

PRÉ-REQUISITOS

Recommended: Cisco Certified Networking Associate (CCNA) v2.0 certification.

CONTEÚDO PROGRAMÁTICO

Course Outline

Introduction to QoS

Implement and Monitor QoS

Classification

Marking

Congestion Management

Congestion Avoidance

Traffic Policing and Shaping

Link Efficiency Mechanisms

QoS for Modern Wireless Networks

QoS for Software-Defined Networks

Deploying End-to-End QoS

Lab Outline

QoS Mechanisms Case Study

IP SLA Setup and QoS Baseline Measurement

Configuring QoS with Cisco AutoQoS

Classification and Marking Using MQC

Using NBAR for Classification

Configuring QoS Preclassify

Campus Classification and Marking Using MQC

Configuring Fair Queuing

Configuring LLQ-CBWFQ

Configuring Campus-Based Queuing Mechanisms

Configuring DSCP-Based WRED

Configuring WTD Thresholds

Configuring Class-Based Policing

Configuring Class-Based Shaping

Configuring LFI