

Cisco Training: The Complete QoS Course (QOSAD, 3 jours)

Description

The course The Complete QoS Course (Cisco Training) is an exploration of QoS on Cisco routers & switches. The training includes router & switch configuration for traffic classification, policing & shaping, queuing & scheduling and more. You learn to configure Cisco routers & Layer 3 switches so that the right traffic is prioritized at the right time.

Tarifs

- Tarification: \$3,350/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

QOS Tools and Fundamentals

Classifiers and Classes of Service
Metering and Coloring
The Shaper Function
Comparing Policing and Shaping
About Queues
Delay and Jitter
Packet Loss

Challenges

Defining the Classes of Service
Classes of Service and Queues Mapping
Inherent Delay Factors
Congestion Points
Trust Borders
Granularity Levels
Control Traffic

Special Traffic Types and Networks

Layer 4 Transport Protocols: UDP and TCP
Data Center
Real-Time Traffic

Classifiers

Packet QOS Markings
Inbound Interface Information
Deep Packet Inspection
Choosing Classifiers
The QOS Network Perspective
Mixing Different QOS Realms

Policing and Shaping

Token Buckets
Traffic Bursts
Dual Rate Token Buckets
Shapers and Leaky Buckets
Excess Traffic and Oversubscription
Comparing and Applying Policer and Shaper Tools

Queuing and Scheduling

Queuing and Scheduling Concepts

Packets and Cellification

Different Types of Queuing Disciplines

FIFO

FQ

PQ

WFQ

WRR

DWRR

Hierarchical Scheduling

Queue Lengths and Buffer Size

Dynamically Sized versus Fixed Size Queue Buffers

The VPLS Case Study

High Level Case Study Overview

Virtual Private Networks

Service Overview

Service Technical Implementation

Network Internals

Classes of Service and Queue Mapping

Classification and Trust Borders

Admission Control

Rewrite Rules

Absorbing Traffic Bursts at the Egress

Queues and Scheduling at Core Facing Interfaces

Queues and Scheduling at Customer Facing Interfaces

Tracing a Packet through the Network

Adding More Services

Multicast Traffic

Using Bandwidth Reservations