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QOS v2.5 - Implementing Cisco Quality of Service

Course Outline

Module 1: Introduction to QoS
Lesson 1: Review Converged Networks
Lesson 2: Understand QoS
Lesson 3: Describe Best-Effort and Integrated Services Models
Lesson 4: Describe the Differentiated Services Model
Lesson 5: Module Summary
Lesson 6: Module Self-Check

Module 2: Implement and Monitor QoS
Lesson 1: MQC Introduction
Lesson 2: Monitor QoS
Lesson 3: Define Campus AutoQoS
Lesson 4: Define WAN AutoQoS
Lesson 5: Module Summary
Lesson 6: Module Self-Check

Module 3: Classification and Marking
Lesson 1: Classification and Marking Overview
Lesson 2: MQC for Classification and Marking
Lesson 3: NBAR for Classification
Lesson 4: Use of QoS Preclassify
Lesson 5: Campus Classification and Marking
Lesson 6: Module Summary
Lesson 7: Module Self-Check

Module 4: Congestion Management
Lesson 1: Queuing Introduction
Lesson 2: Configure WFQ
Lesson 3: Configure CBWFQ and LLQ
Lesson 4: Configure Campus Congestion Management
Lesson 5: Module Summary
Lesson 6: Module Self-Check

Module 5: Congestion Avoidance
Lesson 1: Congestion Avoidance Introduction
Lesson 2: Configure Class-Based WRED

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Lesson 3: Configure ECN
Lesson 4: Describe Campus-Based Congestion Avoidance
Lesson 5: Module Summary
Lesson 6: Module Self-Check

Module 6: Traffic Policing and Shaping
Lesson 1: Traffic Policing and Shaping Overview
Lesson 2: Configure Class-Based Policing
Lesson 3: Campus Policing
Lesson 4: Configure Class-Based Shaping
Lesson 5: Configure Class-Based Shaping on Frame Relay Interfaces
Lesson 6: Configure Frame Relay Voice-Adaptive Traffic Shaping and Fragmentation
Lesson 7: Module Summary
Lesson 8: Module Self-Check

Module 7: Link Efficiency Mechanisms
Lesson 1: Link Efficiency Mechanisms Overview
Lesson 2: Configure Class-Based Header Compression
Lesson 3: Configure LFI
Lesson 4: Module Summary
Lesson 5: Module Self-Check

Module 8: Deploying End-to-End QoS
Lesson 1: Apply Best Practices for QoS Policy Design
Lesson 2: End-to-End QoS Deployments
Lesson 3: Module Summary
Lesson 4: Module Self-Check

Lab outline
Lab 2-1: IP SLA Setup and QoS Baseline Measurement
Lab 2-2: Configuring QoS with Cisco AutoQoS
Lab 3-2: Classification and Marking Using MQC
Lab 3-3: Using NBAR for Classification
Lab 3-4: Configuring QoS Preclassify
Lab 3-5: Campus Classification and Marking Using MQC
Lab 4-1: Configuring Fair Queuing
Lab 4-2: Configuring LLQ-CBWFQ
Lab 4-3: Configuring Campus-Based Queuing Mechanisms
Lab 5-2: Configuring DSCP-Based WRED
Lab 5-3: Configuring WTD Thresholds
Lab 6-1: Configuring Class-Based Policing
Lab 6-2: Configuring Class-Based Shaping
Lab 7-1: Configuring Class-Based Header Compression
Lab 7-2: Configuring LFI
Lab 8-1: Mapping Enterprise QoS Policy to the Service Provider Policy