

ASR ESSENTIALS (CISCO ASR 1000 SERIES ESSENTIALS)

3.9

Objetivo

The Cisco® ASR 1000 Essentials version 3.9.0S instructor-led course offered by HighTouch Delivery Learning Services is a lab-intensive course that introduces you to the Cisco ASR 1000 Series Aggregation Services Routers running Cisco IOS® XE Software Release 3.9.0S. You will learn the major features, functions, characteristics, and connectivity options of the Cisco ASR 1000 Series routers. The course includes detailed platform-specific information about the hardware. Also included is the functional operation of high availability (HA), In-Service Software Upgrade (ISSU), quality of service (QoS), security, and multicast services in the Cisco ASR 1000 Series router. This course combines lecture materials and hands-on labs throughout to make sure that you are able to successfully deploy a Cisco ASR 1000 Series Aggregation Services Router. Upon completion of this course, you should be able to:

- List and describe features, benefits, and functions of Cisco ASR 1000 Series routers
- List and describe the architecture, features, and functions of the hardware elements of the Cisco ASR 1000 Series chassis, route processor, embedded services processor (ESP), SPA interface processor (SIP), Cisco QuantumFlow Processor™, and shared port adapters (SPAs)
- Explain the Cisco ASR 1000 operating system and functionality
- Describe the way packets are processed and list the various components in this process
- Install software and successfully reboot a Cisco ASR 1000 Series router
- Initiate a failover and describe the Cisco ASR 1000 high-availability capabilities
- Install software and describe the Cisco ASR 1000 ISSU capabilities
- Explain how QoS is implemented in hardware and how QoS features provide improved and more predictable network service
- Describe and configure QoS for ingress queueing and egress shaping
- Describe and configure multicast services

Público Alvo

- System engineers
- Technical support personnel
- System integrators

Pré-Requisitos

- Attend the Interconnecting Cisco Network Devices (ICND) course or equivalent experience
- Knowledge of Cisco IOS Software commands
- Understanding of principles of QoS, multicast, and IPSec services

Carga Horária

32 horas (4 dias).

Conteúdo Programático

- Module 1: Cisco ASR 1000 System Introduction
- Module 2: Cisco ASR 1000 Hardware Architecture
- Module 3: Cisco ASR 1000 Software Architecture
- Module 4: Cisco ASR 1000 Operations

- Module 5: Cisco ASR 1000 High Availability
 - Module 6: Cisco ASR 1000 In-Service Software Upgrade
 - Module 7: Quality of Service
 - Module 8: Multicast Services
 - Module 9: Security Services
 - Module 10: Cisco ASR 1000 Packet Flow and Troubleshooting
-
- Lab 1: Lab Access and Cisco ASR 1000 Orientation
 - Lab 2: Performing System Software Maintenance Functions
 - Lab 3: Configuring and Testing High Availability
 - Lab 4: Configuring and Testing ISSU
 - Lab 5: Configuring QoS and Viewing Results
 - Lab 6: Configuring and Testing Multicast
 - Lab 7: Monitoring Statistics and Counters for Troubleshooting