

Cisco Aggregation Services Router 9000 Series Essentials (ASR9KE) v6.1

Duration: 32 HRS

Description

The Cisco Aggregation Services Router 9000 Series Essentials (ASR9KE) v6.1 course introduces you to the features and functions of the Cisco® Aggregation Services Router (ASR) 9000 Series platforms. Through a combination of lecture and hands-on labs, you will gain an understanding of all major aspects of the platform, including hardware, Layer 2 and Layer 3 services, routing protocols including Segment Routing, Layer 2 and Layer 3 multicast, Quality of Service (QoS) features, and network virtualization. The course investigates Cisco Internetworking Operating System (IOS) XR 64-Bit Linux-based feature parity in the environment, as well as how to install Cisco IOS® XR 64-Bit software packages.

Prerequisite

Before attending this course, you should have the following knowledge and skills:

- Basic IOS XR 64-Bit Software configuration commands
- Basic knowledge of router installation and some experience with installation tools
- Routing protocol configuration experience with BGP, Intermediate System-to-Intermediate System (IS-IS), and Open Shortest Path First (OSPF)
- Knowledge of Layer 2 IEEE switching and related protocols
- Strong knowledge of MPLS configuration or multicast configuration experience
- Experience troubleshooting Cisco routers in a large network environment

Outline

- Cisco ASR 9000 Series Hardware
- Cisco IOS XR 64-Bit Software Architecture and Linux Fundamentals
- Cisco IOS XR 64-Bit Software Installation

- Cisco IOS XR 64-Bit Software Configuration Basics
- Cisco IOS XR 64-Bit Software Routing Protocols
- Multicast Routing
- Cisco Multiprotocol Label Switching
- Cisco IOS XR 64-Bit Segment Routing
- Layer 3 VPNs
- Cisco ASR 9000 Layer 2 Architecture
- Point-to-Point Layer 2 Services
- Layer 2 Multicast
- Quality of Service

Who Should Attend

his course is designed for technical professionals who need to know how to deploy Cisco ASR 9000 Series routers in their network environment. The primary audience for this course includes:

- System engineers
- Technical support personnel
- Channel partners, resellers