

IOSXR211

Cisco ASR 9000 Series IOS XR 64-Bit Software Migration and Operational Enhancements

Duration: 3 Days

Course Overview:

The Cisco ASR 9000 Series IOS XR 64-Bit Software Migration and Operational Enhancements (IOSXR211) course covers the migration from classic 32-bit Cisco IOS® XR software to Cisco IOS XR 64-Bit software on the Cisco® ASR 9000 Series Aggregation Services Routers. This course will also examine the software architecture, boot process, and auto-provisioning of the Cisco IOS XR 64-bit software, as well as showing you how to install Cisco IOS XR and third-party software packages. In addition, it will investigate data models and show you how to implement telemetry, model-driven programmability, and application hosting services.

Prerequisites:

The knowledge and skills that the learner should have before attending this course are as follows:

- The Introduction to IOS XR (IOSXR100) course
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- Familiarity with implementing routing protocols on Cisco IOS XR software-based network devices
- Experience working with Cisco IOS XR command-line interface (CLI)-based network devices

Who Should Attend:

The primary audience for this course is as follows:

- System Installers
- System Integrators
- System Administrators
- Network Administrators
- Solutions Designers



Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe the Cisco IOS XR 64-Bit software architecture and Linux system fundamentals
- Describe the major differences between classic Cisco IOS XR software and Cisco IOS XR 64-Bit software on the ASR 9000 Series routers
- Migrate an ASR 9000 Series router from classic IOS XR software to Cisco IOS XR 64-Bit software
- Perform and explain Cisco IOS XR 64-Bit software installations
- Configure and describe Cisco IOS XR 64-Bit software features



Course Outline:

Software Architecture and Linux Fundamentals

- Cisco IOS XR 64-Bit Software Fundamentals
- Cisco ASR 9000 Series IOS XR 64-Bit Software vs. Classic 32-Bit Software
- Exploring Linux Fundamentals
- Creating User Profiles

Cisco IOS XR 64-Bit Software Installation

- Examining Resource Allocations and Media Mappings
- Migrating to Cisco IOS XR 64-Bit Software
- Examining the Boot Process
- Performing Disaster Recovery
- Installing Software Packages

Cisco IOS XR 64-Bit Software Features

- Investigating Data Models
- Implementing Telemetry
- Exploring Model-Driven Programmability
- Employing Application Hosting