Learning Services

Cisco IOS XR 64-Bit Software Operational Enhancements

The Cisco IOS XR 64-Bit Software Operational Enhancements (IOSXR210) course is an instructor-led, lab-based, hands-on course offered by Cisco® Learning Services. It covers the software architecture and explores software features of the Cisco IOS® XR 64-bit operating system.

This course will examine the software architecture, boot process, and auto-provisioning of the Cisco IOS XR 64-bit software, as well as show students how to install Cisco IOS XR and third-party software packages. It will also investigate data models and show students how to implement telemetry, model-driven programmability, and application hosting.

Duration

Instructor-Led Training (ILT): 3 days.
Virtual Instructor-Led Training (VILT) delivery: 4 days.

Target audience

This course is designed for technical professionals who need to learn about the Cisco IOS XR 64-bit software operational enhancements.

Targeted roles include:

- Systems engineers
- Technical architects
- Technical support personnel
- Channel partners and resellers
Course objectives
Upon completion of this course, you should be able to:

- Describe the Cisco IOS XR 64-bit software architecture and Linux system fundamentals
- Perform and explain Cisco IOS XR 64-bit software installations
- Configure and describe Cisco IOS XR 64-bit software features

Course prerequisites
- IOSXR100

Recommended prerequisites
Cisco recommends that you have the following prerequisite knowledge and skills:

- Knowledge of general routing concepts
- Experience working with Cisco IOS XR Command-Line Interface (CLI)-based network devices

Course outline
- Module 1: Software Architecture and Linux Fundamentals
  - Cisco IOS XR 64-Bit Software Fundamentals
  - Exploring Linux Fundamentals
  - Creating User Profiles
- Module 2: Cisco IOS XR 64-Bit Software Installation
  - Examining the Boot Process
  - Performing Disaster Recovery
  - Installing Software Packages
  - Migrating to Cisco IOS XR 64-Bit Software
- Module 3: Cisco IOS XR 64-Bit Software Features
  - Investigating Data Models
  - Implementing Telemetry
  - Exploring Model-Driven Programmability
  - Employing Application Hosting

Lab outline
- Lab 1: Using Basic Linux Commands and Creating User Profiles
- Lab 2: Configuring Auto-Provisioning
- Lab 3: Installation of Cisco IOS XR Packages
- Lab 4: Configuring Model-Driven Telemetry
- Lab 5: Configuring Devices by Using Model-Driven Programmability
- Lab 6: Using the YANG Development Kit
- Lab 7: Deploying Native Application Hosting
• Lab 8: Hosting an Application Within a LXC Container
• Lab 9: Hosting an Application Within a Docker Container

Lab topology

Registration email
For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

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