Learning Services

Cisco IOS XR 64-Bit Software Operation Enhancements (IOSXR210) v1.0

Overview
The Cisco IOS XR 64-Bit Software Operation Enhancements (IOSXR210) version 1.0 Cisco® Training on Demand course introduces you to the software architecture and explores the software features of the Cisco IOS® XR 64-bit operating system.

You also examine the boot process and auto-provisioning of the Cisco IOS XR 64-bit software. In addition, you learn how to install Cisco IOS XR and third-party software packages, perform disaster recovery, create user profiles, use basic Linux and network commands, and access the Linux Containers (LXCs) and guest operating systems. Finally, you learn to investigate data models and how to implement telemetry, model-driven programmability, and application hosting.

Duration
The IOSXR210 Training on Demand course consists of 3 modules totaling more than 6 hours of video instruction along with 9 hands-on lab exercises.

Target Audience
The primary audience for this course is systems engineers, technical architects and support personnel.

Objectives
After completing 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

The knowledge and skills necessary before attending this course are:

- IOSXR100

In addition, we recommend that students have knowledge and skills of general routing concepts and experience working with Cisco IOS XR Command-Line Interface (CLI)-based network devices.

Course Outline

- Module 1: Cisco IOS XR 64-Bit Architecture and Linux Fundamentals
- Module 2: Cisco IOS XR 64-Bit Software Installation
- Module 3: Cisco IOS XR 64-Bit Software Features

Lab Outline

This course contains 9 hands-on lab exercises.

Representative topology for all labs in the course

The labs included in this course are:

- IOSXR210 Lab 1: Using Basic Linux Commands and Creating User Profiles
- IOSXR210 Lab 2: Configuring Auto-Provisioning
- IOSXR210 Lab 3: Installation of Cisco IOS XR Software Packages
- IOSXR210 Lab 4: Configuring Model-Driven Telemetry
- IOSXR210 Lab 5: Configuring Devices by Using Model-Driven Programmability
- IOSXR210 Lab 6: Using the YANG Development Kit
- IOSXR210 Lab 7: Deploying Native Application Hosting
- IOSXR210 Lab 8: Hosting an Application Within an LXC Container
- IOSXR210 Lab 9: Hosting an Application Within a Docker Container
Instructor Bio

Ben Parrish has more than 20 years of experience in the networking field, with over a dozen of those at Cisco in multiple roles, including supporting the Technical Assistance Center (TAC) for escalations and supporting both enterprise and service provider customers within the Advanced Services organization. Since 2015, Ben has been traveling the world teaching full-time, focusing on service provider routing technologies and hardware. In addition to holding a Cisco CCDE® certification, Ben has been a Cisco CCIE® in Routing and Switching for over 10 years.

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