



Introduction to Cisco IOS XR

Cursusduur: 4 Dagen Cursuscode: IOSXR100 Version: 2.0

Beschrijving:

The Introduction to Cisco IOS XR (IOSXR100) v2.0 course introduces you to the features and functions of the Cisco® Internetwork Operating System (Cisco IOS®) XR Software operating system. You learn the fundamental concepts on which the operating system is based and Cisco IOS XR basic operations, system administration, and troubleshooting.

Through a combination of lecture and hands-on lab exercises, you gain an understanding of all major aspects of the operating system, including the architecture, high-availability components, scalability features, configuration basics, basic software operations, configuration file overview, Authentication, Authorization, and Accounting (AAA) services, Network Time Protocol (NTP) configuration, packet filtering, and management plane protection. You also learn how to monitor the Cisco IOS XR operating system, and how to work with error messages and core dumps.

This course will help you:

? Prepare to deploy, implement, configure, operate, and maintain Cisco IOS XR routers

? Gain hands-on practice using Cisco IOS XR software

? Deepen your understanding of the Cisco IOS XR software architecture and capabilities

Doelgroep:

Technical Professionals who need to know how to use basic Cisco IOS XR commands for operating a platform with the Cisco IOS XR operating system, like:

? System installers

? System integrators

- ? System administrators
- ? Network administrators
- ? Solution designers

Doelstelling:

- After taking this course, you should be able to:
- Pescribe the Cisco IOS XR software architecture, high availability components, and scalability features
- Perform basic configurations on a Cisco IOS XR router
- ? Describe Cisco IOS XR software operations
- ? Describe the configuration file system
- Perform Cisco IOS XR software installations

- ? Configure AAA services
- ? Configure NTP
- Configure Simple Network Management Protocol (SNMP), telemetry, and logging
- ? Configure routing protocols
- ? Monitor processes
- ? Use error messages and core dumps

Vereiste kennis en vaardigheden:

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

? Experience working with Command-Line Interface (CLI)-based network devices

? Knowledge of general routing concepts

Examens en certificering

Recommended as preparation for the following exams:

No exams are currently aligned to this course

Vervolgcursussen:

The following courses are recommended for further study:

- IOSXR200 Cisco IOS XR System Administration
- IOSXR201 Cisco IOS XR Basic Troubleshooting
- IOSXR301 Cisco IOS XR Layer 3 VPN Implementation and Verification

Cursusinhoud:

Cisco IOS XR Software Overview

- Platform Overview
- Cisco IOS XR Architecture
- Cisco IOS XR High Availability

Cisco IOS XR Software Configuration Basics

- Cisco IOS XR Configuration Operations
- Cisco IOS XR Initial Configuration
- Reviewing the Configuration

Cisco IOS XR Software Operations

- Examining Configuration Operations
- Examining Configuration Rollback and Recovery

Configuration File System Overview

- Examining the Binary Configuration
- Examining the Commit Database
- Examining the ASCII Configuration
- Examining the Nonvolatile Generation (NVgen) Files
- Verifying Cisco Fabric Services (CFS) Integrity

- Cisco IOS XR Software Installation
- Software Package Basics
- Installing Software Packages

AAA Security

- AAA Fundamentals
- Task-Based Security
- Configuring a User Security Policy
- Authentication with Remote Servers
- Configuring Router to AAA Server Communication
- Configuring Authentication
- Terminal Access Controller Access-Control System Plus (TACACS+) Command Authorization
- Configuring Accounting
- AAA Troubleshooting

Network Time Synchronization

- Network Time Protocol
- SNMP, Telemetry, and Logging
- Examining SNMP
- Examining Telemetry
- Examining Logging

Basic Routing Configuration

- Configuring Intermediate System to Intermediate System (IS-IS)
- Configuring Open Shortest Path First (OSPF)
- Configuring Border Gateway Protocol (BGP)
- Configuring Routing Protocol for LLN (RPL) Policy

Packet Filtering

- Access Control Lists
- Unicast Reverse Path Forwarding
- Management Plane Protection

Monitoring Process

- Examining Processes and Threads
- Process Crashes
- Commands for Debugging Processes
- Restartability of Processes
- Process Monitoring
- Identifying Memory Problems
- Memory Depletion

Core Dumps

- Core Dump Fundamentals
- Using Core Dump Information

Extra informatie:

? Instructor-led training: 4 days in the classroom with hands-on lab practice ? Virtual instructor-led training: 5 days of web-based classes with hands-on lab practice

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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