

Introduction to Cisco IOS XR

Varighed: 4 Days **Kursus Kode: IOSXR100** **Leveringsmetode: Virtuel deltagelse**

Beskrivelse:

The Introduction to Cisco IOS XR 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.

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

Målgruppe:

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.

Agenda:

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| ■ After completing this course you should be able to: | ■ Configure AAA services |
| ■ Describe the Cisco IOS XR software architecture, high availability components, and scalability features | ■ Configure NTP |
| ■ Perform basic configurations on a Cisco IOS XR router | ■ Configure Simple Network Management Protocol (SNMP), telemetry, and logging |
| ■ Describe Cisco IOS XR software operations | ■ Configure routing protocols |
| ■ Describe the configuration file system | ■ Monitor processes |
| ■ Perform Cisco IOS XR software installations | ■ Use error messages and core dumps |

Forudsætninger:

Attendees should meet the following prerequisites:

- Knowledge of general routing concepts
- Experience working with CLI-based network devices

Test og certificering

Recommended as preparation for the following exams:

- No exams are currently aligned to this course

Yderligere Kurser:

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

Indhold:

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

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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