

IOSXR100 (INTRODUCTION TO CISCO IOS XR (IOSXR100) V2.0) 2.0

Objetivo

Describe 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

Público Alvo

System installers System integrators System administrators Network administrators Solution designers

Pré-requisitos

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

Carga Horária

4 horas (1 dias).

Conteúdo Programático

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