

IOSXR200 (CISCO IOS XR SYSTEM ADMINISTRATION (IOSXR200) V1.1) 1.1

Objetivo

The Cisco IOS XR configuration file system How to install Cisco IOS XR software Secure domain routers AAA security Network time synchronization

Público Alvo

This course is designed for network professionals, Network Operations Center (NOC) personnel, and support staff who are involved with the system administration of Cisco routers that run the Cisco IOS XR software operating system.

Pré-Requisitos

Completion of the Introduction to Cisco IOS XR (IOSXR100) course, or equivalent hands-on experience configuring and supporting Cisco IOS XR-based routers Experience working with CLI-based network devices Basic knowledge of the architecture and operations of Cisco IOS XR-based routers Fundamental knowledge of Cisco IOS XR configuration and operation

Carga Horária

3 horas (1 dias).

Conteúdo Programático

Configuration File System Overview

Configuration File System

Cisco IOS XR Software Installation

Examining the Software Packaging

Installing the Software

Recovering from a Software Installation

Secure Domain Routers

Examining a Secure Domain Router (SDR)

Physical Router

SDR Creation

AAA Security

AAA Fundamentals

Task-Based Security
Configuring a User Security Policy
Authentication with Remote Servers
AAA and the Terminal Access Controller Access Control System Plus (TACACS+) Server
Configuring AAA in Cisco IOS XR Software
Configuring the AAA Server
Configuring Virtual Teletype (VTY) User Authentication
TACACS+ Command Authorization
TACACS+ Command Accounting
AAA Troubleshooting
TACACS+ Troubleshooting
Remote Authentication Dial-In User Service (RADIUS) Troubleshooting

Network Time Synchronization

Network Time Synchronization Overview
Network Time Protocol

Lab outline

Configuration File System

Navigating the Cisco Fabric Services (CFS)
Exploring the System Database (SysDB)
Exploring the Binary Files
Comparing ASCII and Binary Files on the Active and Standby Rendezvous Points (RPs)

Software Installation - Pre-Installation Checks

Perform Pre-installation Checks

Activating/Deactivating Software Packages

Deactivate Feature Packages

Configuring Non-Owner Secure Domain Router

Secure Domain Router Configuration
Reviewing the Configuration

Configuring User Security Policies

Configuring User Security Policies

Configuring TACACS+ AAA Authentication on the Router

Creating a TACACS+ AAA Configuration on the Router

Accessing and Configuring the TACACS+ Server

Access and Configure the TACACS+ Server

Configuring TACACS+ Authentication for VTY Users

Configure TACACS+ Authentication for VTY Users

Enabling Command Accounting through the TACACS+ Server

Enable Command Accounting Through the TACACS+ Server

Network Time Synchronization

Configuring and Verifying a Network Time Protocol Server Association

Configure and Verify an Authenticated NTP Server Association

Monitoring Processes

Monitor Processes

Monitoring a Routing Protocol Process Restart

Monitor a Routing Protocol Process Restart

Monitoring Memory

Monitor Memory

Configuring SNMP

Configure SNMP

Configuring Logging

Configure Logging

Configuring IPv4 Filtering

Configure IPv4 Filtering

Configure Anti spoofing Access Control Lists (ACLs)

Using ACLs for Troubleshooting

Use ACLs for Troubleshooting

Implementing and Verifying Unicast Reverse Path Forwarding (uPRF)

Implement and Verify uRPF

Configuring Management Plane Protection (MPP)

Configure Management Plane Protection