

Implementing Converged SDN Transport Solutions

Varighed: 4 Days Kursus Kode: SPSDNTXP Version: 1.0

Beskrivelse:

The Implementing Converged SDN Transport Solutions (SPSDNTXP) course introduces you to Software-Defined Networking (SDN)-ready architecture. This architecture evolves traditional Metro network design into an SDN-enabled programmable network capable of delivering all services (residential, business, 5G mobile backhauling, video, and IoT) on the premise of simplicity, full programmability, and cloud integration with guaranteed service level agreements (SLAs).

You will examine the evolution of service provider design principles such as Unified Multiprotocol Label Switching, Evolved Programmable Networks, and the Cisco® Compass Metro Fabric. Additionally, you'll explore and configure individual components of the design including segment routing and its supporting features.

This course will help you:

Describe the Converged SDN Transport solution
Describe the basic implementation of SDN component features
Establish a foundation to take a deeper dive into SDN solutions

Målgruppe:

Anyone deploying a converged SDN Transport solution

Agenda:

- **After completing this course, you should be able to:**
 - Explain how to configure and verify Ethernet VPN (EVPN) Native and EVPN Virtual Private Wire Service (VPWS)
 - Describe how to configure and verify the Layer 3 VPN
 - Explain network operation simplification and automation foundation
 - Describe how to automate service provider network configurations with Cisco Network Services Orchestrator (NSO)
 - Describe how to automate the service provider WAN with Cisco WAN Automation Engine (WAE)
 - Explore different converged SDN transport use cases
- Introduce and examine the evolution of service provider design principles
- Introduce and review the basic building blocks of segment routing and its place within the service provider infrastructure
- Implement various technologies within segment routing to provide additional availability or to meet the Service Level Agreements (SLAs)
- Identify and deploy an SDN controller to support a multidomain segment routing for traffic engineering
- (SR-TE) network
- Describe different VPNs and services

Forudsætninger:

Attendees should meet the following prerequisites:

- Knowledge of general networking 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

Indhold:

Converged SDN Transport Fundamentals

Introducing Segment Routing

Segment Routing Topology-Independent Loop-Free Alternative (TI-LFA) and Traffic Engineering (TE)

Multidomain SR-TE

VPN and Services Overview

EVPN Layer 2 Basics

Layer 3 VPNs

Operation Simplification and Automation Foundation

Network Orchestration Using NSO

Network Automation Using Cisco WAE

Labs

- Configure and Verify Segment Routing
- Configure and Verify SR TI-LFA
- Configure and Verify SR-TE
- Configure and Verify Multidomain SR-TE
- Configure and Verify Basic EVPN
- Configure and Verify Layer 3 VPN
- Cisco NSO Overview
- Cisco WAE Overview

Flere Informationer:

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

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