

Cisco CRS-1 Essentials

Varighed: 5.00 Days Kursus Kode: CRS-1

Beskrivelse:

This lab-intensive course introduces you to the Cisco® CRS-1 Carrier Routing System and its features and functions. You will learn the important theoretical concepts that the Cisco CRS-1 is based on and gain the practical knowledge and skills to successfully deploy it in your network. You will be able to determine the right Cisco CRS-1 based on the requirements of your network. In 12 hands-on labs, you will learn to install the Cisco IOS® XR Software operating system, create and configure secure domain routers (SDRs), deploy common routing protocols, implement IP Multicast, and deploy Multiprotocol Label Switching (MPLS) traffic engineering and MPLS layer 3 VPNs in the classroom environment. You will also use Route Policy Language (RPL) to deploy largescale routing configurations and perform basic troubleshooting. This course combines lecture materials and hands-on labs throughout to ensure that you are able to successfully deploy a Cisco CRS-1 Carrier Routing System network.

Målgruppe:

This course is intended for network professionals including designers, implementation staff, network operations center personnel, and support staff who are involved with the deployment, operations, and maintenance of the Cisco CRS-1 Carrier Routing System.

Agenda:

- **After you complete this course you will be able to:**
- List and describe the major features and benefits of the Cisco CRS-1
 - List and describe the major features and benefits of a Cisco SDR
 - Create and configure a Cisco SDR
 - Configure the Cisco CRS-1, back out of configuration changes, and restore older versions of a configuration
 - Install the Cisco IOS XR Software operating system, package information envelopes, and software maintenance updates
 - Configure the Cisco IOS XR security features in owner and nonowner SDRs
 - Configure legacy route map configurations using the new Cisco IOS XR RPL
 - Configure routing protocols in a complex multi-autonomous system (AS) environment
 - Enable multicast routing on the Cisco CRS-1
 - Configure MPLS on Cisco IOS XR Software
 - Configure MPLS-Traffic Engineering (MPLS-TE) tunnels on the Cisco CRS-1
 - Configure MPLS Layer 3 VPNs on the Cisco CRS-1
 - Understand data flow through the Cisco CRS-1
 - Troubleshoot basic Cisco CRS-1 hardware and software problems

Forudsætninger:

Attendees should meet the following prerequisites:

- Routing protocol configuration experience with Border Gateway Protocol (BGP), Intermediate System-to-Intermediate System (IS-IS), and Open Shortest Path First (OSPF) or attendance at the
- Advanced knowledge of BGP multihomed, multi-AS configurations or attendance at the Configuring BGP on Cisco Routers and / or the Implementing Cisco MPLS course
- Multicast configuration experience
- Advanced knowledge of Cisco router security implementation, including authentication, authorization, and accounting (AAA) and TACAS or attendance at the Securing Networks with PIX and

Test og certificering

Recommended preparation for exam(s):

- None specified at this moment in time

Yderligere Kurser:

The following courses are recommended for further study:

None recommended

Indhold:

<u>Introduction to Cisco CRS-1 Carrier Routing Systems</u>	<u>Secure Domain Routers</u>	<u>MPLS</u>
<u>Cisco CRS-1 Chassis Hardware</u>	<u>Cisco IOS XR Software Installation, Security, and Operations</u>	<u>MPLS Layer 3 VPNs</u>
<u>Cisco CRS-1 Line Card Chassis Common Elements</u>	<u>Routing Protocols</u>	<u>Cisco CRS-1 Data Flow and Modular QoS Command-Line Interface</u>
<u>Introduction to Cisco CRS-1 Multishelf Architecture</u>	<u>Route Policy Language</u>	<u>Troubleshooting Cisco CRS-1 Carrier Routing Systems</u>
<u>Cisco IOS XR Software Overview and Basics</u>	<u>Multicast Routing</u>	<u>Labs</u>
		<ul style="list-style-type: none"> Lab 1: Hardware Discovery and Initial Configuration Lab 2: Secure Domain Routers Lab 3: Cisco IOS XR Software Installation Lab 4: Cisco IOS XR Security Lab 5: Cisco IOS XR Software Operations Lab 6: IS-IS Routing Configuration Lab 7: OSPF Routing Configuration Lab 8: iBGP Routing Configuration Lab 9: Building RPL Route Policies Lab 10: IP Multicast Configuration Lab 11: MPLS Configuration Lab 12: L3VPN Configuration

Additional Information:

No further information available

Flere Informationer:

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

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