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Introduction to Juniper Data Center Networking (IJDC)

CODE:	LENGTH:	PRICE:
JUN_IJDC	24 Hours (3 dage)	kr 21,200.00

Description

This three-day course provides introductory instruction on data center switching using Juniper products. Although this course does not cover Ethernet VPN–Virtual Extensible LAN (EVPN/VXLAN) architecture, it covers the baseline knowledge necessary to understand a data center that is built upon an IP fabric with an EVPN/VXLAN overlay. This course covers OSPF, BGP, routing policy, link aggregation, Ethernet switching, VLANs, load balancing, filter-based forwarding (FPF), layer 2 security features, routing instances, graceful restart, and BFD. Introduction to Juniper Data Center Networking (IJDC) is an introductory-level course.

Objectives

- Identify and describe how to configure a typical data center layout, including spine and leaf placements.
- Describe an IP fabric architecture. • Explain and configure basic Ethernet switching.
- Explain and configure virtual networks (VLANs). • Describe layer 2 security. • Implement link aggregation.
- Describe and implement protocol independent routing and routing instances with Junos OS.
- Configure load balancing within Junos OS. • Implement filter-based forwarding (FBF) using Junos OS.
- Describe and deploy OSPF. • Describe and deploy BGP. • Implement graceful restart and BFD using Junos OS.

Audience

This course benefits individuals responsible for configuring and managing network equipment in data centers.

Prerequisites

- The following are the prerequisites for this course:
- Knowledge of basic TCP/IP networking;
 - Understanding basic layer 2;
 - Familiarity with Data Center technologies; and
 - Junos OS configuration experience—the Introduction to the Junos Operating System (IJOS) course or equivalent

Programme

Day 1 Course Introduction Traditional Architectures • Identify a typical Data Center layout; identify pros and cons
• Describe the new networking requirements in a data center • Describe Juniper products for spine and leaf placement
Modern Architectures • Describe Juniper Products for Spine and Leaf placement • Describe the purpose of Juniper APSTRA
Ethernet Switching Overview • List the benefits of implementing switched LANs
• Describe transparent bridging concepts and operations • Describe terms and design considerations for switched LANs
Configuring Ethernet Switching • Configure interfaces for Ethernet switching • Display and interpret the Ethernet switching table
Lab 1: Implementing Ethernet Switching Virtual Networks Overview • Explain the concept of a virtual LAN (VLAN)
• Describe access and trunk ports • Explain access and trunk ports use and benefits Configuring Virtual Networks
• Configure and monitor VLANs • Explain inter-VLAN routing operations • Configure and monitor inter-VLAN routing operations
Lab 2: Implementing Virtual Networks Layer 2 Security • Describe MAC filtering • Describe Storm Control
Lab 3: Implement Layer 2 Security Features Day 2 Link Aggregation • Describe and implement link aggregation
Lab 4: Configure and Monitor Link Aggregation Protocol Independent Routing • Configure static routes
• Configure aggregate routes • Configure generated routes • Manage Martian routes Routing Instances • Describe routing instances
• Configure and share routes between routing instances Lab 5: Configuring Protocol Independent Routing and Routing Instances
Load Balancing • Describe load balancing concepts and operations • Implement and monitor layer 3 load balancing
Filter-Based Forwarding (FBF) • Illustrate benefits of filter-based forwarding • Configure and monitor filter-based forwarding
Lab 6: Load Balancing and FBF Day 3 Fundamentals of OSPF • Describe basic OSPF functionality
• Describe adjacency formation and the DR election • Describe the scalability of OSPF Deploying OSPF

- Configure and monitor OSPF • Troubleshoot OSPF Lab 7: Deploying OSPF Fundamentals of BGP • Overview of BGP
- BGP Attributes Deploying BGP • IBGP versus EBGP • Configuring and Monitoring BGP Lab 8: Deploying BGP Graceful Restart and BFD • Describe the benefits of graceful restart and BFD • Configure graceful restart • Configure BFD
- Lab 9: Configure Graceful Restart and BFD

Session Dates

På anmodning. [Kontakt os venligst](#)

Yderligere Information

[Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.](#)