TRAINING OFFERING

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Data Center Fabric with EVPN and VXLAN (ADCX)

CODE:	LENGTH:	PRICE:
JUN_ADCX	40 Hours (5 days)	£4,250.00

Description

This five-day course is designed to provide in-depth instruction on IP fabric and EVPN-VXLAN data center design and configuration.
Additionally, the course will cover other data center concepts, including basic and advanced data center design options, Data Center Interconnect (DCI), EVPN multicast enhancements, and in introduction to data center automation concepts.
The course ends with a multisite data center design lab. This content is based on Junos OS Release 17.4R1 and 18.2R1-S3.
The Data Center Fabric with EVPN and VXLAN (ADCX) course is an advanced level course. Relevant Juniper Product
• Automation • Data Center • Switching • EX Series • Junos OS • MX Series • QFX Series

Objectives

• Describe and configure an IP fabric. • Describe and configure an EVPN-VXLAN data center.
• Identify and configure centrally routed bridging (CRB) EVPN-VXLAN designs.
• Identify and configure edge-routed bridging (ERB) EVPN-VXLAN designs.
• Evaluate basic and advanced data center design concepts. • Describe and configure DCI.
• Describe enhancements to multicast functionality in an EVPN-VXLAN. • Describe the role of multicloud data center controllers.

Audience

• Data Center Implementation Engineers • Data Center Design Engineers

Prerequisites

• Understanding of the OSI model
• Advanced routing knowledge—the Advanced Junos Enterprise Routing (AJER) course or equivalent knowledge
• Intermediate switching knowledge—the Junos Enterprise Switching (JEX) course or equivalent knowledge
• Intermediate to advanced Junos CLI experience

Programme

Day 1 Course Introduction Data Center Fundamentals Overview • Traditional Multitier Architecture Challenges
• Next Generation Data Center Fabrics • Juniper Networks Data Center Platforms IP Fabric Configuration IP Fabrics
• IP Fabric Overview • IP Fabric Routing • IP Fabric Scaling • IP Fabric Configuration LAB 1: IP Fabric VXLAN Fundamentals
• VXLAN Functions and Operations • VXLAN Implementation • VXLAN Gateways Day 2 EVPN Controlled VXLAN
• Benefits of EVPN • VXLAN Using EVPN Control Plane Configuring EVPN Controlled VXLAN
• Configuring and Monitoring EVPN Signaling for VXLAN Routing LAB 2: EVPN-VXLAN Day 3 Basic Data Center Architectures
• Basic Data Center Architecture • Base Design • Design Options and Modifications LAB 3: EVPN-VXLAN Layer 3 Gateways
Data Center Interconnect • DCI Overview • DCI Options for a VXLAN Overlay • EVPN Type 5 Routes • DCI Example LAB 4: DCI
Day 4 Advanced Data Center Architectures • Advanced Data Center Architectures • Base Design EVPN Multicast
• Multicast Overview • Multicast in an EVPN-VXLAN Environment Introduction to Multicloud Data Center • Data Center Evolution
• Contrail Enterprise Multicloud Use Cases Day 5 Comprehensive Data Center Lab • Data Center Architecture
LAB 5: Data Center Comprehensive Lab
The following Appendices can be covered, if time permits, and is requested by the delegate/s prior to booking:
Appendix A: Virtual Chassis Fabric Appendix B: Virtual Chassis Fabric Management Appendix C: Junos Fusion Data Center
Appendix D: Multichassis LAG Appendix E: Troublehsooting MC-LAG Appendix F: ZTP Appendix G: In-Service Software Upgrade
Appendix H: Troubleshooting Basics Appendix I: Data Center Devices

Test and Certification

Associated Certification JNCIP-DC Exams can be purchased and scheduled at an additional cost – please ask for details.

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
01 Jul 2024	Virtual Training Class - TP	BST	English	Instructor Led Online		£4,250.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.