Advanced Junos Enterprise Routing

Duration: 5 Days **Course Code: AJER** **Version: 19.a** **Delivery Method: Virtual Learning**

Overview:

This five-day course is designed to provide students with the tools required for implementing, monitoring, and troubleshooting Layer 3 components in an enterprise network. Detailed coverage of OSPF, BGP, multicast, class of service (CoS), and EVPN-VXLAN is covered in depth. The course also exposes students to common troubleshooting commands and tools used to troubleshoot various intermediate to advanced issues.
Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos operating system and in monitoring device and protocol operations.

This course uses Juniper Networks vSRX virtual firewall for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos OS. This course is based on Junos OS Release 19.3R1.8.

Target Audience:

Participants in the course should have:
A desire to learn how to manage and configure advanced routing protocol features.

A desire to learn about EVPN/VXLAN.

A desire to learn how to migrate to an L3 IP Fabric

Prerequisites:

This course has the following prerequisites:

- Have TCP/IP and Junos networking experience.
- Have working experience with basic routing protocols.
- Attend the Introduction to the Junos Operating System (IJOS)
- Attend the Junos Intermediate Routing (JIR) courses
- JIR - Junos Intermediate Routing

Follow-on-Courses:

- AJEX - Advanced Junos Enterprise Switching

Content:

Day 1 Topics

- OSPFv2 Review
- OSPF Areas

Advanced OSPF Options

Day 2 Topics

- Troubleshooting OSPF
- BGP operations, configuration and path selection
- BGP Attributes and Policy
- BGP Troubleshooting

Day 3 Topics

- Enterprise Routing Policies
- Troubleshooting Policies
- Introduction to Multicast

Day 4 Topics

- Multicast Routing Protocols and SSM
- Troubleshooting Multicast
- Class of Service
- Troubleshooting Class of Service
- Enterprise Architectures
- VXLAN
- EVPN-VXLAN
- Configuring an Evolved Core
- Migrating to an IP Fabric

Day 5 Topics

- Multicast Routing Protocols and SSM
- Troubleshooting Multicast
- Class of Service
- Troubleshooting Class of Service
- Enterprise Architectures
- VXLAN
- EVPN-VXLAN
- Configuring an Evolved Core
- Migrating to an IP Fabric

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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