Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Advanced Junos Enterprise Routing (AJER)

CODE:	LENGTH:	PRICE:
JUN_AJER	40 Hours (5 days)	Request Price

Description

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) model and the TCP/IP protocol suite. Students should also have working experience with basic routing principles.
Students should also attend the Introduction to the Junos Operating System (IJOS) and Junos Intermediate Routing (JIR) courses prior to attending this class.

Objectives

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.

Audience

This course benefits individuals responsible for configuring and monitoring devices running the Junos OS.

Programme

OSPFv2 Review
Link-State Advertisements
Protocol Operations
OSPF Authentication
OSPFv3
Lab 1: Configuring and Monitoring OSPF
OSPF Areas
Review of OSPF Areas
Stub Area Operation
Stub Area Configuration
NSSA Operation
NSSA Configuration
Route Summarization
Lab 2: Configuring and Monitoring OSPF Areas and Route Summarization
OSPF Case Studies and Solutions
IGP Transition Overview
Transition Case Study
OSPF Multiarea Adjacencies
External Reachability
Virtual Links
Lab 3: Configuring and Monitoring Routing Policy and Advanced OSPF Policy
Chapter 5: Troubleshooting OSPF
OSPF Troubleshooting
Lab: Troubleshooting OSPF
BGP
Review of BGP

BGP Operations
Load Balancing Options
Path Selection and Configuration Options
Lab: Implementing BGP
BGP Attributes and Policy
Policy and BGP
BGP Attributes
Details and Manipulation of Common BGP Path Attributes
Lab: BGP Attributes
Troubleshooting BGP
BGP Troubleshooting
BGP Case Study
Lab: Troubleshooting BGP
Enterprise Routing Policies
Enterprise BGP Core Network Design
Enterprise External Network Deployment
Lab: Implementing Enterprise Routing Policies
Troubleshooting Policies
Routing Policy Overview
Routing Policy Structure
Using Regex
Routing Policy Troubleshooting
Case Study
Lab: Troubleshooting Routing Policies
Introduction to Multicast
Overview of Multicast
Multicast Addressing
RPF
IGMP
Lab: PIM-SM
Multicast Routing Protocols and SSM
Overview of Multicast Routing Protocols
PIM-SM Using the ASM Model
Lab: Implementing PIM-SM
PIM-SM Using the SSM Model
Lab: Implementing SSM
Troubleshooting Multicast
Multicast Troubleshooting
Multicast Case Study
Lab: Troubleshooting Multicast
Class of Service
CoS Components Review and Case Study
CoS Processing and CoS Defaults on the SRX Series Device
Policing
Virtual Channels
Monitoring with Resource Performance Monitoring
Lab 9: Implementing CoS Features in the Enterprise
Troubleshooting Class of Service
CoS Troubleshooting
CoS Case Study
Lab: Troubleshooting Class of Service
BGP Route Reflection
Route Reflection Operation
Configuration and Routing Knowledge
Lab: BGP Route Reflection (Optional)
Troubleshooting IS-IS
IS-IS Troubleshooting
Lab: Troubleshooting IS-IS and Mixed Environments
Additional Troubleshooting
RIP Troubleshooting
IGP Troubleshooting Case Studies
IGP Support for IPv6
Lab: BGP Case Study

Session Dates

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a training.ecs.it@arrow.com

Informazioni aggiuntive

Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.