

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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JUNIPER 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.