



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE: JUN_AJER **LENGTH:** 40 Hours (5 days) **PRICE:** 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	Review of OSPF Areas	
Link-State Advertisements	Stub Area Operation	
Protocol Operations	Stub Area Configuration	
OSPF Authentication	NSSA Operation	
OSPFv3	NSSA Configuration	
Lab 1: Configuring and Monitoring OSPF	Route Summarization	
OSPF Areas	Lab 2: Configuring and Monitoring OSPF Areas and Route Summarization	
IGP Transition Overview	OSPF Case Studies and Solutions	
Transition Case Study		
OSPF Multiarea Adjacencies		
External Reachability		
Virtual Links		OSPF Troubleshooting
Lab 3: Configuring and Monitoring Routing Policy and Advanced OSPF Policy		Lab: Troubleshooting OSPF
Chapter 5: Troubleshooting OSPF		BGP
Review of BGP		
BGP Operations	Policy and BGP	
Load Balancing Options	BGP Attributes	BGP Troubleshooting
Path Selection and Configuration Options	Details and Manipulation of Common BGP Path Attributes	BGP Case Study
Lab: Implementing BGP	Lab: BGP Attributes	Lab: Troubleshooting BGP
BGP Attributes and Policy	Troubleshooting BGP	Enterprise Routing Policies

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