

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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CODE:	LENGTH:	PRICE:

JUN_JIR 16 Hours (2 dage) kr 22,000.00

Description

This three-day course provides students with intermediate routing knowledge and configuration examples. The course includes an overview of

protocol-independent routing features, OSPF, IS-IS, BGP, routing policy, IP tunneling, load balancing, high availability (HA) features, VRRP, and IPv6.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring Junos OS and monitoring device operations.

This course uses Juniper Networks vSRX Series Services Gateways for the hands-on component, but the lab environment does not preclude the

course from being applicable to other Juniper hardware platforms running Junos OS. This course is based on Junos OS Release 23.4R1

RELATED JUNIPER PRODUCTS

COURSE LEVEL • Junos OS Intermediate • SRX Series

Objectives

- Describe how routes enter a routing table, and how routers choose the best routes for forwarding traffic.
- Implement static routing within Junos OS.
- Describe OSPF within Junos OS.
- Describe how routing policies control what prefixes can enter the routing table and what prefixes can be advertised by protocols.
- Deploy OSPF within Junos OS.
- Implement IS-IS within Junos OS.
- Implement BGP within Junos OS.
- Deploy BGP within Junos OS.
- Describe some important advanced routing policy features and behaviors.
- Implement routing instances within Junos OS.
- Implement load balancing within Junos OS.
- · Implement VRRP within Junos OS.
- Implement graceful routing and Bidirectional Forwarding Detection (BFD) within Junos OS.
- Implement high availability features—GRES, NSR, and unified ISSU—within Junos OS.
- Implement IP tunneling within Junos OS.
- Describe IPv6 within Junos OS.
- Implement filter-based forwarding (FBF) within Junos OS.

Audience

Individuals responsible for configuring and monitoring devices running Junos OS.

Prerequisites

- · Basic networking knowledge and an understanding of the OSI model and the TCP/IP protocol suite
- · Completion of the Introduction to the Junos Operating System course prior to attending this class

Programme

 1 Routing Fundamentals Explain the role of a router in a network Define the difference between directly co Explain how route preference selects the Explain the process of longest prefix matter based of the process of longest prefix matter based of the second verify the interval of the second verify the verify the second verify the v	best route toa destinatior ch lookups	• (mic routes • (n • (• N	Configure s Configure a Configure (Manage ma	ndependent Routing static routes aggregate routes generated routes artian routes col Independent Ro		
 Explain adjacency formation and the designated 	d router election					
Explain OSPF scalability						
4 Routing Policy		5	Deploying) OSPF		
• Explain how import and export policies can re-a	dvertise prefixes between					
Describe the CLI syntax of a routing policy			Troublesh			
Demonstrate how a routing policy can export sta	atic routes into OSPF	La	ab 2: OSP	F	DAY 2	
6 IS-IS	<u> </u>					
• Explain IS-IS		Deploying E				
Describe IS-IS PDUs Define adjacency formation and DIS election Configure and i						
Define adjacency formation and DIS election Configure and monitor IS IS	• Fundamentals of BGP				~	
•				ection configuration		
	Describe BGP attributes La			ection configuration		
9 Advanced Routing Policy Features	10 Routing Instance					
Describe advanced route-filter options	Describe routing instance					
Describe how to refer to a prefix list in a routing			etween rou	iting instances		
• Explain route filters with mixed prefix lengths	Lab 5: Routing Inst			ung metamore		
11 Load Balancing	g					
• Describe the load-balancing concepts and operation	ations					
Implement and monitor Layer 3 load balancing	12 VRRP					
Lab 6: Load Balancing	DAY 3 • Describe,	configure, ar	nd monitor	VRRP		
13 Graceful Restart and Bidirectional Forwarding		•				
Detection			1	15 IP Tunneling		
 Describe high availability 	14 GRES, NSR, and Un	ified ISSU	•	Describe IP tunnel	ing	
 Explain graceful restart 	Explain graceful Routir	ng Engine sv	vitchover •	Describe GRE and	d IP-IP tunnels	
 Explain Bidirectional Forwarding Detection 	 Explain nonstop active 	routing	•	Deploy GRE and I	P-IP tunnels	
Lab 7: High Availability	 Explain unified ISSU 		L	_ab 8: IP Tunneling		
16 IPv6						
Explain IPv6 addressing						
• Explain routing protocol configuration examples						
Describe tunneling IPv6 over IPv4	Illustrate benefits of filte					
Lab 9: IPv6 • Configure and monitor filter-based forwarding						
SELF-STUDY MODULE	Lab 10: Filter-Based For	warding				

Test and Certification

RELATED CERTIFICATION: NCIS-SP, JNCIS-ENT, JNCIS-DC

Session Dates

På anmodning. Kontakt os venligst

Yderligere Information

Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.