WUVN

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JUNIPER Juniper Networks Design Fundamentals (JNDF)

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JUN JNDF 24 Hours (3 days) €2,850.00

Description

This three-day course is designed to cover best practices, theory, and design principles for overall network design and will serve as the prerequisite course for other design subject areas - data center, security, and WAN.

Objectives

After successfully completing this course, you should be able to:

- •Provide an overview of network design needs and common business requirements.
- Describe key product groups related to campus, WAN, data center, and security architectures.
- Analyze and interpret common RFP requirements.
- •Scope a network design by gathering data and working with key stakeholders.
- •Describe ways of processing customer data and design requests.
- ·Identify boundaries and scope for the design proposal.
- •List some considerations when creating a design proposal.
- •Provide an overview of network security design principles and common vulnerabilities.
- •List high-level design considerations and best practices for securing the network.
- •List the components of the campus network design.
- •Describe best practices and design considerations for the campus.
- •Describe architectural design options for the campus.
- •List the components of the WAN.
- •Describe best practices and design considerations for the WAN.
- •Describe design options for the WAN.
- •List the components of the data center design.
- •Describe best practices and design considerations for the data center.
- •Describe architectural design options for the data center.
- •Define business continuity and its importance in a network design.
- •Describe high availability design considerations and best practices.
- •Provide an overview of high availability offerings and solutions.
- •Describe Class of Service design considerations.
- •Provide an overview of environmental considerations in network design.
- •List design considerations and best practices for managing the network.
- •Provide an overview of Juniper Networks and third party options for network management.
- •List design considerations and best practices for network automation.
- •Provide an overview of automation tools.
- •Explain the foundational topics that have been taught throughout the course.
- •Create a network design proposal that satisfies customer requirements and business needs.
- •Provide an overview of the steps involved in migrating a network.
- •Describe best practices used in network migration.
- ·List the various campus network topographies.
- •Describe sample design options for the campus.

Audience

This course is targeted for Juniper Networks system engineers, partner sales engineers (including Champions), and services partners who are interested in learning network design introductory concepts. However, the course is also applicable to a general audience of Juniper customers with a desire to learn more about network design.

Prerequisites

•Knowledge of routing and switching architectures and protocols.

- •Knowledge of Juniper Networks products and solutions.
- •Understanding of infrastructure security principles.

•Basic knowledge of hypervisors and load balancers.

Programme

Chapter 2	2: Network Design	Fundamentals			
•A Need 1	or Design				
•Knowled	lge is King				
•A Propos	sed Design Methodol	ogy			
Day 1Chapter 1: Course Introduction•A Refere	nce Network				
Chapter 3: Understanding Customer Requiren	nents				
•RFP Requirements	Chapter 4: O	rganizing the Data	a		
•Scoping the Design Project	 Processing the 	Data and Reques	sts Chapter 5:	Securing the Network	
•Analyzing the Data	 Understanding 	Boundaries and S	Scope•Why Secure	the Network?	
•Lab: Understanding Customer Requirements	 Design Propos 	al Considerations	 Security Des 	sign Considerations	
Chapter 6: Creating the Design—Campu	usChapter 7: Crea	iting the Design-	Wide Area Network	(S	
 The Campus Network: An Overview 	•The WAN: An Ove	rview			
 Best Practices and Considerations 	 Best Practices and 	I Considerations			
 Architectural Design Options 	 WAN Design Exar 	nples			
Day 2•Lab: Creating the Design—Campus	 Lab: Creating the I 	Design—WAN			
	Chapter 9: Busine	ss Continuity and	Network Enhancer	nents	
Chapter 8: Creating the Design—Data Center	Business Continuity	Planning			
•The Data Center: An Overview	High Availability Des	sign Consideration	ns and Best Practic	es	
Best Practices and Considerations	Offerings and Solution	ons			
•Data Center Design Examples •CoS and Traffic Engineering Considerations					
•Lab: Creating the Design—Data Center	Environmental Desig	jn		Day 3	
		Chapter 12: P •Network Desig	outting Network Des n Recap	sign into Practice	
Chapter 11:	Automation	•Responding to	the RFP		
Chapter 10: Network Management •Designing f	or Network Automatic	on•Final Lab Intro	duction		
•Designing for Network Management•Lab: Enhan	cing the Design	 Lab: Putting N€ 	etwork Design into F	Practice	
Appendix A: Network Migration Strategies	0 0	U	0		
Migration Overview					
Migration Approaches Appen	dix B: Sample Cam	pus Designs			
Migration Examples •Camp	ous Topology Exampl	es			
Appendix C: Sample Response to RFP					
•Example of an Actual Juniper Networks RFP Res	sponse				

Options

JNDF is an associate-level course.

Session Dates

Aikataulutamme kiinnostuksen mukaan. Ota yhteyttä

Additional Information

This training is also available as onsite training. Please contact us to find out more.