Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Email: training.ecs.dk@arrow.com
Phone: +45 7025 4500

Juniper Cloud Networking with AWS and Azure (JCNAA)

CODE:	LENGTH:	PRICE:
JUN_JCNAA	32 Hours (4 dage)	kr 28,300.00

Description

This four-day course is designed to provide students with the knowledge required to implement Juniper Networks vSRX in Amazon Web Services
(AWS) and Azure environments. Through demonstrations and hands-on labs, students will gain in-depth knowledge about the manual and automated methods used to deploy the vSRX in multicloud environments. The course is based on Juniper Networks® vSRX Virtual Firewall versions 23.2R1.13 and 22.4R2, Junos Space® Release 22.3R1.2, Junos Space® Security Director Release 22.3R1.2, Policy Enforcer 22.3R1, and Juniper® Advanced Threat Prevention Cloud.
COURSE LEVEL
Intermediate
RELATED JUNIPER PRODUCTS
• Juniper Space
• Junos Space Security Director
• SRX Series
• Policy Enforcer

Objectives

• Describe major cloud concepts.
• Describe the AWS Cloud architecture and deploy an Amazon Elastic Compute Cloud (Amazon EC2) instance.
• Deploy a vSRX instance in AWS.
• Deploy vSRX instances using AWS CloudFormation.
• Describe and configure cloud connectivity using the IPsec tunnel.
• Implement AWS transit gateway.
• Deploy Juniper Connected Security.
• Describe the Microsoft Azure Cloud architecture and services.
• Deploy a vSRX instance in Microsoft Azure.
• Automate vSRX deployments using Microsoft Azure Resource Manager
• Deploy multicloud vSRX instances using Terraform.
• Describe AWS and Azure Cloud security services.

Audience

• Individuals who want a basic understanding of cloud infrastructure, operations, and terms
• Individuals who want to learn how to securely expand their IT operations into the cloud

Prerequisites

• Basic TCP/IP skills
• Basic understanding of the Junos operating system
• Basic understanding of the SRX Series device and its range of security features

Programme

DAY 1
1 Course Introduction
2 Cloud Overview
• Describe cloud fundamentals

• Explain cloud virtualization
• Describe cloud security
3 Introduction to AWS
• Describe the AWS architecture
• Access the AWS Management Console
• Launch AWS EC2 instances
• Navigate the AWS Marketplace and explore the available products
Lab 1: Introduction to AWS
4 Implementing vSRX in AWS
• Explain the operation of an AWS vSRX instance
• Launch an AWS vSRX instance
• Configure an AWS vSRX instance
Lab 2: Implementing vSRX in AWS

DAY 2

5 AWS CloudFormation
• Describe AWS CloudFormation
• Describe CloudFormation templates
• Describe JSON and YAML fundamentals
• Deploy a vSRX instance using CloudFormation template
Lab 3: CloudFormation
6 Cloud Connectivity Using IPsec Tunnel
• Describe the cloud connectivity options
• Describe how IPsec tunnels are established
• Configure an IPsec tunnel between an enterprise SRXdevice and an AWS Virtual Private Gateway
• Configure an IPsec tunnel between an enterprise SRX device and an AWS vSRX instance
• Describe how to configure an IPsec tunnel between vSRXs devices from different AWS VPCs
Lab 4: Cloud Connectivity
7 AWX Transit Gateway
• Explain the need and use of the AWS Transit Gateway
• Describe Inter-VPC firewall use cases
• Deploy an AWS Transit Gateway and attach a vSRX instance in services VPC
Lab 5: AWX Transit Gateway

DAY 3

8 Advanced Cloud Security
• Describe Juniper Connected Security
• Configure AWS components for Juniper Connected
Security
• Implement Juniper Connected Security with Advanced Threat Prevention
Lab 6: Advanced Cloud Security
9 Introduction to Microsoft Azure
• Describe the Microsoft Azure services
• Describe the Microsoft Azure architecture
• Navigate the Microsoft Azure portal
• Locate Juniper Networks products in the Microsoft Azure Marketplace
• Launch a Microsoft Azure virtual machine
Lab 7: Introduction to Microsoft Azure
10 Implementing vSRX in Microsoft Azure
• Describe prelaunch considerations for Microsoft Azure vSRX instances
• Launch a Microsoft Azure vSRX instance
• Explain the required vSRX Microsoft Azure configuration
Lab 8: Implementing vSRX in Microsoft Azure

DAY 4

11 Microsoft Azure Resource Manager
• Describe Microsoft Azure Resource Manager capabilities
• Describe Microsoft Azure Resource Manager templates
• Create Microsoft Azure Resource Manager templates
• Deploy a vSRX instance using a Microsoft Azure Resource Manager template
Lab 9: Microsoft Azure Resource Manager
12 Terraform
• Explain multicloud complexity
• Explain Terraform concepts
• Manage multicloud infrastructure using Terraform
Lab 10: Terraform
13 Public Cloud Services
• Describe load balancing and auto scaling
• Describe how to configure AWS load balancer and autoscale vSRX instances
• Describe Key Management Service in AWS and Microsoft Azure Cloud
• Describe the AWS alert and monitoring service

Test and Certification

RELATED JUNIPER CERTIFICATION:
JNCIS-SEC

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.