Juniper Cloud Networking Security with AWS and Azure

Category: Cloud Platforms | **Vendor:** Microsoft

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This four-day course is designed to provide students with the knowledge required to implement Juniper Networks vSRX in 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. This course uses various releases of the vSRX as well as Junos Space, Security Director, Policy Enforcer, and Juniper ATP Cloud. This course is based on Junos OS Release 22.3 and Junos Space Release 22.3.

About This Course

- Course Introduction
- Cloud Overview
- Introduction to AWS
- Implementing vSRX in AWS
- AWS CloudFormation
- Cloud Connectivity Using IPsec Tunnel
- AWX Transit Gateway
- Advanced Cloud Security
- Introduction to Microsoft Azure
- Implementing vSRX in Microsoft Azure
- Microsoft Azure Resource Manager
- Terraform
- Public Cloud Services

Who Should Attend

- 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 & Entry Requirements

General 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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Describe major cloud concepts.
- Describe the AWS Cloud architecture and deploy an EC2 instance.
- Deploy a vSRX instance in AWS.
- Deploy vSRX instances using AWS CloudFormation.
- Describe and configure cloud connectivity using 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.

Detailed Course Outline

Course Introduction

Cloud Overview

- Describe cloud fundamentals
- Explain cloud virtualization
- Describe cloud security

Introduction to AWS

- Describe the AWS architecture
- Access the AWS Management Console
- Launch AWS EC2 instances

- Navigate the AWS Marketplace

Lab 1: Introduction to AWS

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

AWS CloudFormation

- Describe AWS CloudFormation
- Describe CloudFormation templates
- Describe JSON and YAML fundamentals
- Deploy a vSRX instance using CloudFormation template

Lab 3: CloudFormation

Cloud Connectivity Using IPsec Tunnel

- Describe the cloud connectivity options
- Describe how IPsec tunnels are established
- Configure an IPsec tunnel between an enterprise SRX device 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 vSRX devices from different AWS VPCs

Lab 4: Cloud Connectivity

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

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

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

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

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

Terraform

- Explain multicloud complexity

- Explain Terraform concepts

- Manage multicloud infrastructure using Terraform

Lab 10: Terraform

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

Skills You Will Learn:

- Describe major cloud concepts.
- Describe the AWS Cloud architecture and deploy an EC2 instance.
- Deploy a vSRX instance in AWS.
- Deploy vSRX instances using AWS CloudFormation.
- Describe and configure cloud connectivity using 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.

Frequently Asked Questions

Q: What delivery options are available for Juniper Cloud Networking Security with AWS and Azure?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Juniper Cloud Networking Security with AWS and Azure course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Juniper Cloud Networking Security with AWS and Azure training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Juniper Cloud Networking Security with AWS and Azure?

Yes, we provide corporate training, dedicated training, and closed classes for Juniper Cloud Networking Security with AWS and Azure. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Juniper Cloud Networking Security with AWS and Azure, Cloud, DJSAA

Q: Why choose Nexus Human for Juniper Cloud Networking Security with AWS and Azure?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Juniper Cloud Networking Security with AWS and Azure training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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