



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow Enterprise Computing Solutions Ltd, Part 1st Floor, Suite 1D/1, Central House, Otley Road, Harrogate, HG3 1UG

Email: educationteam.ecs.uk@arrow.com
Phone: 0870 251 1000



Deploying Juniper Security in AWS and Azure (JNCAA)

CODE:	LENGTH:	PRICE:
JUN_JNCAA	32 Hours (4 days)	£3,195.00

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 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 vSRXs devices from different AWS VPCs

Lab 4: Cloud Connectivity

7 AWS 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: AWS 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

On request. Please [Contact Us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)