

COURSE OVERVIEW

This introductory two-day workshop provides students with an overview of Juniper® Cloud-Native Router. The workshop includes an overview of Juniper Cloud-Native Router, the deployment platforms it supports, a demonstration of Juniper Cloud-Native Router deployment as a cell site router with IPsec security services, and a demonstration of Juniper Cloud-Native Router deployment as a virtual private cloud gateway.

Through demonstrations, students will learn how to deploy and configure the Juniper Cloud-Native Router. This course is based on Juniper Cloud-Native Router 24.2R1.

COURSE LEVEL

Introductory

AUDIENCE

Individuals responsible for deploying and configuring Juniper Cloud-Native Router

PREREQUISITES

- Intermediate cloud and networking knowledge
- Understanding of the routing protocols and L3VPNs
- Strong familiarity with the Junos OS environment
- Understanding of Kubernetes, hyperscalers, and cloud-native solutions
- Recommended, but not required:
 - [Juniper Cloud Fundamentals](#) course or equivalent knowledge
 - [Introduction to the Junos Operating System](#) course or equivalent knowledge

RELEVANT JUNIPER PRODUCTS

Juniper Cloud-Native Router

CONTACT EDUCATION SERVICES

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OBJECTIVES

- Describe Juniper Cloud-Native Router and its use cases.
- Describe the deployment modes of Juniper Cloud-Native Router.
- Describe the various customizations available for Juniper Cloud-Native Router configuration.
- Demonstrate the installation of Juniper Cloud-Native Router.
- Describe how Juniper Cloud-Native Router is deployed and configured as a cell site router with IPsec services.
- Describe how Juniper Cloud-Native Router is deployed and configured as a VPC gateway.

COURSE CONTENTS

DAY 1

1	Overview of Juniper Cloud-Native Router <ul style="list-style-type: none">Describe the advent of 5G and the need for cloud-native routingIdentify the key use cases and features of Juniper Cloud-Native RouterExplain the architecture and components of Juniper Cloud-Native RouterDescribe the Juniper Cloud-Native Router interface types
2	Installing Juniper Cloud-Native Router <ul style="list-style-type: none">Define available deployment modes with their associated featuresDescribe the available interface types and their association with deployment modesDescribe the different support platforms for JCNR Lab Demo 1: Deploying Juniper Cloud-Native Router
3	Configuring Juniper Cloud-Native Router <ul style="list-style-type: none">Explain Juniper Cloud-Native Router configuration through configletExplain Juniper Cloud-Native Router configuration using Junos CLI or NETCONF Lab Demo 2: Configuring Juniper Cloud-Native Router using Configlets
4	Deploying Pods with JCNR CNI <ul style="list-style-type: none">Describe How to Deploy Pods with JCNR CNIExplain network attachment definition and pod manifestExplain different NAD examplesExplain IPAM Lab Demo 3: Deploying Pods with JCNR CNI

DAY 2

5	Juniper Cloud-Native Router as a Cell Site Router <ul style="list-style-type: none">Explain the Juniper Cloud-Native Router cell site use case Lab Demo 4: Juniper Cloud-Native Router as a Cell Site Router
6	Juniper Cloud-Native Router as a Cell Site Router with Security Services <ul style="list-style-type: none">Explain how to integrate Juniper Cloud-Native Router with cSRXDescribe how to set up cSRX Lab Demo 5: Juniper Cloud-Native Router as a Cell Site Router with Security Services
7	Juniper Cloud-Native Router as a VPC Gateway <ul style="list-style-type: none">Explain the use cases of Juniper Cloud-Native Router deployed as a VPC GatewayExplain how to configure Juniper Cloud-Native Router for VPC InterconnectExplain how to automate Juniper Cloud-Native Router deployment as a VPC Gateway

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