

CLOUD, ASSOCIATE (JNCIA-CLOUD)

Earn an associate-level certification that demonstrates your understanding of cloud networking concepts and fundamentals.

One of four certifications in the Cloud track, the JNCIA-Cloud, Associate, is designed for networking professionals with introductory-level knowledge of Juniper networks cloud-based networking architectures, theory, and best practices. This track enables you to demonstrate competency with multicloud, software-defined networking, SD-WAN, and other cloud technologies.

Exam Preparation

We recommend the following resources to help you prepare for your exam. However, these resources aren't required, and using them doesn't guarantee you'll pass the exam.

Recommended Training

- [Juniper Cloud Fundamentals](#)

Exam Resources

- Industry/product knowledge
- [Juniper TechLibrary](#)

Additional Preparation

- [Juniper Learning Portal](#)

Exam Objectives

Here's a high-level view of the skillset required to successfully complete the JNCIA-Cloud certification exam.

Cloud Fundamentals

Identify the concepts or functionalities of various fundamental elements of cloud networking:

- Deployment models (public/private/hybrid cloud)
- Service models: Software as a Service (SaaS) Infrastructure as a Service (IaaS), Platform as a Service (PaaS)
- Cloud-native architectures
- Cloud automation tools

Cloud Infrastructure: Networks Functions Virtualization (NFV) and SDN

Identify the concepts, benefits, or functionalities of (NFV):

- NFV architecture
- NFV orchestration
- Virtualized network functions (VNFs)

Identify the concepts, benefits, or functionalities of SDN:

- SDN architecture
- SDN controller
- SDN solutions

Network Virtualization

Identify the concepts, operations, or functionalities of network virtualization:

- Virtual network types
- Underlay and overlay networks
- Encapsulation and tunneling (MPLS over GRE/MPLS over UDP/VXLAN/EVPN with VXLAN/GENEVE)

Cloud Virtualization

Identify the concepts, operations, or functionalities of Linux virtualization:

- Linux architecture
- Hypervisor type (type 1 and 2)
- Hypervisor operations and concepts
- Kernel-based virtual machine (KVM), Quick Emulator (QEMU) concepts and operations
- Creation of virtual machines (VMs)

Identify the concepts, operations, or functionalities of Linux containers:

- Container versus VM
- Container components
- Creation of containers using Docker

Cloud Orchestration with OpenStack

Identify the concepts, operations, or functionalities of OpenStack:

- Creation and management of VMs in OpenStack
- Automation using HEAT templates in Yet Another Markup Language (YAML)
- OpenStack UI usage
- OpenStack networking plugins
- OpenStack security groups

Cloud Orchestration with Kubernetes

Identify the concepts, operations, or functionalities of Kubernetes:

- Creation and management of containers in Kubernetes
- Kubernetes API Objects (Pods, ReplicaSets, Deployments, Services)
- Kubernetes namespaces and Container Network Interface (CNI) plug-ins

Cloud Orchestration with OpenShift

Identify the concepts, operations, or functionalities of OpenShift:

- Creation, management, and monitoring of OpenShift workloads
- Navigation of the OpenShift CLI or WebUI
- Node types (provisioner and control plane)
- Network types (routable, provisioning, management)

Exam Details

Exam questions are derived from the recommended training and the exam resources listed above. Pass/fail status is available immediately after taking the exam. The exam is only provided in English.

Exam Code

JN0-214

Prerequisite Certification

None

Delivered by

Pearson VUE

Exam Length

90 minutes

Exam Type

65 multiple-choice questions

Software Versions

- Contrail 22.4
- OpenStack Zed
- Kubernetes 1.24
- OpenShift 4.10

Recertification

Juniper certifications are valid for three years. For more information, see [Recertification](#).

About Juniper Networks

At Juniper Networks, we are dedicated to dramatically simplifying network operations and driving superior experiences for end users. Our solutions deliver industry-leading insight, automation, security and AI to drive real business results. We believe that powering connections will bring us closer together while empowering us all to solve the world's greatest challenges of well-being, sustainability and equality.

Corporate and Sales Headquarters

Juniper Networks, Inc.
1133 Innovation Way
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or +1.408.745.2000
Fax: +1.408.745.2100
www.juniper.net

APAC and EMEA Headquarters

Juniper Networks International B.V.
Boeing Avenue 240
1119 PZ Schiphol-Rijk
Amsterdam, The Netherlands
Phone: +31.207.125.700
Fax: +31.207.125.701



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