

Juniper Networks Certified Internet Associate (JNCIA-Cloud)

Online Course

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Cloud Associate (JNCIA-Cloud)

Course Modules

1. Identify the concepts or functionalities of various fundamental cloud concepts

- Deployment models (Public/private/hybrid cloud)
- Service models (SaaS/IaaS/PaaS)
- Cloud-native architectures
- Cloud automation tools

2. Identify the concepts, benefits, or functionalities of Network Functions Virtualization (NFV)

- NFV architecture
- NFV orchestration
- VNFs

3. Identify the concepts, benefits, or functionalities of software-defined networking (SDN)

- SDN architecture
- SDN controller
- SDN solutions



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4. Identify the concepts, operations, or functionalities of network

- Virtual network types
- Underlay and overlay networks
- Encapsulation & tunneling (MPLS over GRE/MPLS over UDP/VXL

5. Identify the concepts, operations, or functionalities of Linux

- Linux architecture
- Hypervisor type (type 1 & 2)
- Hypervisor operations and concepts
- KVM/QEMU concepts and operations
- Creating virtual machines

6. Identify the concepts, operations, or functionalities of Linux

- Container versus virtual machine
- Container components
- Creating containers using Docker



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7.The concepts, operations, or functionalities of OpenStack

- Creating and managing VMs in OpenStack
- Automation using HEAT templates in YAML
- Using OpenStack UIs
- OpenStack networking plugins
- OpenStack Security Groups

8..Concepts, operations, or functionalities of Kubernetes

- Creating and managing containers in Kubernetes
- Kubernetes API Objects (Pods, ReplicaSets, Deployments, Service)
- Kubernetes namespaces and CNI plug-ins

9.Identify the concepts, operations, or functionalities of OpenShift

- Creating, managing, and monitoring OpenShift workloads
- Navigating the OpenShift CLI or WebUI
- Node types (provisioner and control plane)
- Network types (routable, provisioning, management)

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in terms of time management,
flexibility, and the ability
to access resources anytime,
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