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Juniper Cloud Fundamentals (JCF)

Duration: 3 Days Course Code: JUN JCF

Overview:

This three-day course is designed to provide students with the foundational knowledge required to work with Juniper Contrail. The course summarizes cloud concepts, virtual networks, and cloud management. Key topics include fundamental cloud concepts, Linux virtualization, network virtualization, software defined networking (SDN), Network Functions Virtualization (NFV), and an introduction to OpenStack, Kubernetes, and Contrail.

Course Level

The Juniper Cloud Fundamentals training is an introductory level course.

Relevant Juniper Product

- Contrail
- SRX Series

Target Audience:

Individuals responsible for planning and coordinating cloud enabled networks and services in data center, private cloud, public cloud, hybrid cloud, service provider, and enterprise WAN environments.

Objectives:

- Identify fundamental cloud concepts
- Identify the concepts of Linux virtualization
- Identify the concepts of Linux namespaces
- Identify the concepts of containerization
- Identify the basics of Network Virtualization
- Introduction to NFV and SDN
- • Introduction to OpenStack

- Identify the key concepts of OpenStack Configuration
- Identify the basics of OpenStack Networking
- Identify the basics of Kubernetes
- Describe Kubernetes interfaces Identify the key concepts of Kubernetes configuration
- Introduction to Juniper Cloud Native Contrail Networking
- Identify the basics of Cloud Native Contrail Networking configuration

Prerequisites:

- Basic TCP/IP skills
- · Basic network understanding
- General understanding of data center environments
- General understanding of enterprise WAN environments
- Basic understanding of virtualization
- Completion of the Getting Started with Cloud eLearning course

Testing and Certification

JNCIA-Cloud exam topics are based on the content of the recommended instructor-led training courses, as well as the additional resources.

- Exam code: JN0-211
- · Administered by Pearson VUE
- Exam length: 90 minutes
- Exam type: 65 multiple-choice questions
- Pass/fail status is available immediately
- Software Release:
- o Junos Software: 18.4

o Contrail: 5.1

- CSO: 5.0
- o NorthStar: 5.0
- o AppFormix: 2.18

The JNCIA-Cloud certification is valid for three years.

Exams can be purchased and scheduled at https://home.pearsonvue.com/junipernetworks/

Follow-on-Courses:

Cloud Automation Using Contrail

Content:

Content.		
DAY 1	Describe concepts of virtual networks	Describe the concept of Floating IP addresses and load balancing
Course Introduction	Describe how to extend virtual network	Lab 8: OpenStack Networking
Fundamental Cloud Concepts	Lab 5: Network Virtualization	DAY 3
Identify key cloud concepts	DAY 2	Introduction to Kubernetes
Describe components of cloud architecture	Network Functions Virtualization and	Overview of Kubernetes fundamentals
• Identify Juniper solutions for cloud infrastructure	Software-Defined Networking	Lab 9: Kubernetes Basics
Linux Virtualization	Describe the concepts of Software-defined networking (SDN)	Kubernetes Networking
Overview of the Linux architecture	Describe the concepts of Network Functions	Describe how to provision a Kubernetes cluster
Describe the concept of Linux virtualization	Virtualization (NFV)	Describe Kubernetes networking
Lab 1: Linux Virtualization	Introduction to OpenStack	Lab 10: Kubernetes Networking
Linux Namespaces	Describe the OpenStack fundamentals	Introduction to Cloud Native Contrail
Overview of the Linux containment features	Describe OpenStack UI	Networking
Describe the concept of network namespaces	Lab 6: OpenStack Configuration—WebUI	Overview of Contrail Networking
Describe the concept of Linux bridging	OpenStack Configuration	Describe the features of Contrail Networking
Lab 2: Linux Namespaces	Identify the OpenStack interfaces	Contrail Basic Configuration
Containerization	Describe the OpenStack orchestration concepts	Overview of the installation requirements
Describe containerization using Docker	Describe how to create instances in OpenStack	Explore the Contrail UI
Describe Docker networking	Lab 7: OpenStack Configuration—CLI	Describe how to create a virtual network in Contrail
Lab 3: Containerization	, 5	
Lab 4: cSRX	OpenStack Networking	Describe how to create basic security controls
Network Virtualization	Describe OpenStack networks and security groups	Lab 11: Contrail Basic Configuration

• Describe OpenStack routing

Additional Information:

Delegates will receive an official set of e-kit courseware approximately 1 week prior to the start of the course.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

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