

## Juniper Cloud Fundamentals (JCF)

ID JCF Preis US \$ 3'000.– (exkl. MwSt.) Dauer 3 Tage

### Zielgruppe

This course benefits 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.

### Empfohlenes Training für die Zertifizierung zum

Juniper Networks Certified Internet Associate Cloud (JNCIA-CLOUD)  
Juniper Networks Certified Internet Specialist Cloud (JNCIS-CLOUD)

### Voraussetzungen

The prerequisites for this course are as follows:

- Basic TCP/IP skills;
- General understanding of data center virtualization;
- General understanding of enterprise WAN environments
- Basic understanding of virtualization

### Kursziele

After successfully completing this course, you should be able to:

- Describe network overlay and underlay concepts.
- Describe private, public, and hybrid cloud architecture and implementation.
- Describe the implementation of services in a cloud networking environment.
- Describe the implementation and functions of the Juniper vSRX platform.
- Describe the implementation and functions of the Juniper vMX platform.
- Describe the implementation and functions of the Juniper NFX platform.
- Describe the role of Juniper Networks virtualized platforms in public cloud offerings.
- Describe the functionality and use of Juniper Networks Cloud Connector.
- Describe the need for Software Defined Networking.
- Describe basic SDN concepts.

- Describe common types of SDN implementation.
- Describe the main Network Function Virtualization components.
- Describe cloud services monitoring.
- Describe the functions of AppFormix in cloud services.
- Describe SDN WAN concepts.
- Describe the role, functions, and features of the NorthStar Controller.
- Describe the role, functions, and features of WANDL/IP MPLS View.
- Describe the role and functions a vCPE and uCPE components.
- Describe the role and functions of Contrail Service Orchestration.
- Describe Software Defined Secure Network concepts.
- Describe methods to secure an SDN environment.
- Describe the functionality of SDSN components.

### Kursinhalt

#### Day 1

##### Chapter 1: Course Introduction

##### Chapter 2: Cloud Components

- Cloud Networking Definition
- Cloud Architecture
- XaaS

##### Chapter 3: Virtualized Platforms

- Juniper Networks Virtualized Platforms
- Juniper Networks Virtualized Platforms in Public Clouds

##### Chapter 4: SDN Fundamentals

- The Need for SDN
- SDN Explained
- OpenFlow Based SDN
- SDN as an Overlay
- SDN via API
- Applications of SDN
- Lab 1: Exploring OpenStack with the CLI

#### Day 2

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## Chapter 5: Network Function Virtualization

- Introduction to NFV
- NFV Architecture
- Examples of VNFs

## Chapter 6: Orchestration and Automation

- Managing a Cloud Infrastructure
- OpenStack for Orchestration
- Contrail/OpenContrail SDN Controller
- NSX for SDN

## Chapter 7: AppFormix

- Operations Management
- AppFormix Operation and Use Cases

## Day 3

## Chapter 8: SD WAN Solutions

- SD WAN Concepts
- NorthStar SD WAN Controller
- NorthStar Controller Use Cases
- WNADL IP/MPLSView

## Chapter 9: Cloud CPE

- Legacy vs. Cloud CPE Architecture
- Cloud CPE with Contrail Service Orchestration

## Chapter 10: Cloud Security

- Legacy Network Security
- Cloud Security Concepts
- SDSN Components

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## Weltweite Trainingscenter



## Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3  
CH-8304 Wallisellen  
Tel. +41 44 832 50 80

[info@flane.ch](mailto:info@flane.ch), <https://www.flane.ch>