Enterprise Computing Solutions - Education Services

# TRAINING OFFERING

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# Juniper Cloud Fundamentals

| CODE: | LENGTH: | PRICE: |
| --- | --- | --- |
| JUN_JCF | 24 Hours (3 dage) | kr 20,449.00 |

## Description

This three-day course is designed to provide students with an understanding of cloud enabled networks, cloud service deployment concepts, and virtualized network platforms such as vSRX and vMX. This course provides a high level overview and understanding of the following concepts:

- Cloud Network Underlays
- Cloud Network Overlays
- Cloud Design
- Cloud Implementation Methods
- Cloud Services
- Juniper Networks Virtualized Platforms

## Objectives

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.

## Audience

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.

## Prerequisites

Students should have basic TCP/IP skills, a general understanding of data center environments, a general understanding of enterprise WAN environments, and a basic understanding of virtualization.

## Programme

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
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- Cloud Connector
- Lab: Deploying Juniper Networks Virtual Devices - vMX

Chapter 4: SDN Fundamentals

- The Need for SDN
- SDN Explained
- OpenFlow Based SDN
- SDN as an Overlay
- SDN via API
- Applications of SDN

Day 2
Chapter 5: Network Function Virtualization

- Introduction to NFV
- NFV Architecture
- Examples of VNFs
- Lab: Manually Deploying 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
- Lab: AppFormix

Day 3
Chapter 8: SD WAN Solutions

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

Chapter 9: Cloud CPE

- Legacy vs. Cloud CPE Architecture
- Cloud CPE with Contrail Service Orchestration
- Lab: Cloud CPE (video demonstration)

Chapter 10: Cloud Security

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Legacy Network Security
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Cloud Security Concepts
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SDSN Components

- Lab: Cloud Security using SkyATP

## Session Dates

På anmodning. Kontakt os venligst

## Yderligere Information

Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.