Juniper Cloud Fundamentals

Duration: 3 Days Course Code: JCF

Overview:

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 OverlaysCloud Design Cloud Implementation Methods Cloud ServicesJuniper Networks Virtualized Platforms

Target 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.

Objectives:

- 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.

Prerequisites:

Content:

Day1:

Course Introduction

2.

Cloud Components:

- Cloud Networking Definition
- Cloud Architecture
- XaaS 3 Virtualized Platforms
- Juniper Networks Virtualized Platforms
- Juniper Networks Virtualized Platforms in Public Clouds
- Cloud Connector Lab: Deploying Juniper Networks Virtual Devices - vMX

3.Virtualized Platforms

- Juniper Networks Virtualized Platforms
- Juniper Networks Virtualized Platforms in Public Clouds
- Cloud Connector Lab: Deploying Juniper Networks Virtual Devices – vMX

Lab: Deploying Juniper Networks Virtual Devices - vMX

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

Day2:

5. Network Function Virtualization:

- Introduction to NFV
- NFV Architecture
- Examples of VNFs

Lab: Manually Deploying VNFs

6.Orchestration and Automation

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

NSX for SDN

7.AppFormix:

- Operations Management
- AppFormix Operation and Use Cases

Lab: AppFormix

8.SD WAN Solutions:

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

9.Cloud CPE:

- Legacy Versus Cloud CPE Architecture
- Cloud CPE with Contrail Service Orchestration

Lab: Cloud CPE (video demonstration)

10 Cloud Security :

- Legacy Network Security
- Cloud Security Concepts
- SDSN Components Lab

Cloud Security using SkyATP

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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