

Implementing Cisco Enterprise SD-Branch

Duration: 2 Days **Course Code: ENSDBI** **Version: 1.0**

Overview:

The Implementing Cisco Enterprise SD-Branch (ENSDBI) course is designed to provide an understanding of the Cisco® Software-Defined (SD)-Branch architecture and Cisco Enterprise Network Functions Virtualization (ENFV) solution. You will learn about the supported hardware platforms with a focus on the components, installation, and upgraded workflows of the Cisco Enterprise Network Compute System (ENCS) 5400 series. Building your knowledge of Cisco NFVIS and Cisco vManage by deploying and managing the VNFs.

Target Audience:

Individuals who are deploying and managing Cisco Enterprise NFVIS on Cisco ENCS 5400's

Objectives:

- **After completing this course you should be able to:**
- Describe the Cisco SD-Branch solution and its architecture
- Explain the hardware components of the Cisco ENCS 5400 and Cisco Catalyst® 8200 Series Edge Universal Customer Premises Equipment (uCPE)
- Install and access the Cisco Enterprise NFVIS on Cisco ENCS 5400
- Understand the VNF Lifecycle management and its deployment
- Identify Cisco Enterprise NFVIS Security considerations
- Explain the Cisco SD-WAN solution and its components
- Describe the Cisco ENCS orchestrations systems and Representational State Transfer (REST) APIs
- Deploy the Cisco ENCS using orchestrators
- Monitor and troubleshoot Cisco ENFV components using Cisco vManage

Prerequisites:

Attendees should meet the following prerequisites:

- A strong understanding of routing protocol operation, including interior and exterior routing protocol operations
- Familiarity with Transport Layer Security (TLS) and IP Security (IPSec)
- A basic understanding of Hypervisor and virtualization
- CCNA - Implementing and Administering Cisco Solutions
- ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies

Testing and Certification

Recommended as preparation for the following exams:

- There is no exam currently aligned to this course

Content:

Introducing Cisco SD-Branch Architecture and Cisco ENFV Solution

- Need for Cisco SD-Branch
- Cisco SD-Branch Solution Architecture and Benefits
- Cisco ENFV Solution
- Cisco Enterprise NFVIS and Its Benefits
- Cisco Enterprise NFVIS Hardware Platforms and Cisco NFVIS Supported Virtual Machines
- Cisco Enterprise NFVIS Key Tasks

Preparing Cisco ENCS Device for Deployment

- Cisco ENCS 5400 Components
- Cisco Catalyst 8200 Series Edge uCPE Components
- Install and Access the Cisco Enterprise NFVIS on the Cisco ENCS 5400
- Upgrade Cisco Enterprise NFVIS and Cisco ENCS 5400 Firmware versions

Deploying VNFs on Cisco ENCS

- VNF and Its Requirements
- VNF Lifecycle Management
- Cisco Enterprise NFVIS Security Considerations
- VNF Packaging
- VNF Deployment
- Networking via Cisco Enterprise NFVIS

Working with Cisco ENCS Orchestration

- Cisco SD-WAN Solution and Components
- Plug and Play for Cisco SD-Branch Solution
- Cisco ENCS Supported Orchestration Systems and Rest APIs
- Overview of Cisco SD-WAN Network Design

Monitoring and Managing Cisco ENFV Components

- Monitor and Manage Cisco ENFV Components Using Cisco vManage
- Troubleshoot Cisco ENFV Components Using Cisco vManage

Labs

- Explore Cisco ENCS and Cisco Enterprise NFVIS Portal
- Deploy Cisco Virtual Machines (VMs) and VNFs
- Deploy Orchestration using Cisco vManage
- Monitor and Troubleshoot Cisco ENCS device

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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