DCCVIM

Cisco Virtualized Infrastructure Manager Deployment and Operations

24 horas | Service Provider | Cisco

INTRODUÇÃO

The Cisco Virtualized Infrastructure Manager Deployment and Operations (DCCVIM) v1.0 teaches you how to deploy and manage the Network Function Virtualization Infrastructure (NFVI) platform, reducing user error and providing visualization deployment to manage multiple Cisco® Virtualized Infrastructure Manager (VIM) pods from a single portal. Cisco VIM Unified Management is a hardware platform and hypervisor-independent solution that combines Network Function Virtualization (NFV) and Software-Defined Networking (SDN).

This course teaches you how to deploy, operate, and maintain Day 0, Day 1, and Day 2 configurations on the Cisco VIM Unified Management release 3.0. You will be introduced to the hardware components used in the Cisco VIM Unified Management solution, and how to identify the OpenStack components and their functions. The course introduces the Cisco Virtualized Infrastructure Manager (CVIM) Monitor (MON) User Interface (UI) tools, and how to maintain and operate within that solution.

This course will help you:

• Construct and install the Cisco VIM Unified Management to streamline management of the NFVI platform;
• Learn how to deploy, operate, and maintain Day 0, Day 1, and Day 2 configurations on the Cisco VIM Unified Management release 3.0;
• Introduce the hardware components used in the Cisco VIM Unified Management solution, and how to identify the OpenStack components and their functions.

OBJETIVO DO CURSO

After taking this course, you should be able to:

• Describe the Cisco hardware components used in the Cisco VIM Unified Management solution;
• Describe the Cisco Network Function Virtualization Infrastructure (NFVI) Design;
• Discuss how Virtual Extensible LAN (VXLAN) is used with Cisco VIM;
• Explain the Cisco VIM deployment;
• Explain the process for a fresh Cisco VIM installation;
• Describe how to operate the Cisco VIM tools;
• Explain the troubleshooting required for the ToR.

PÚBLICO-ALVO

• Channel partners and resellers
• System and network engineers
• Technical architects
• Technical support personnel

PRÉ-REQUISITOS

It is recommended that you have the following prerequisite knowledge and skills:

• An understanding of Cisco Data Center Foundations (DCFNDU);

• Familiarity with the operation and administration of Red Hat Enterprise Linux;

• Familiarity with OpenStack.

CONTEÚDO PROGRAMÁTICO

Cisco VIM Unified Management Hardware and Topology Overview

NFVI and SDN Architecture Overview

Cisco VIM POD Configurations

Cisco Network Function Virtualization Infrastructure (NFVI) Design

Solution Design Use Cases

Cisco VIM POD Design Use Cases

VXLAN Solution with Cisco VIM

VXLAN Overview

Cisco VIM and VXLAN Solution Design

Cisco VIM Deployment Overview

Cisco VIM Installer Overview

Cisco VIM Representational State Transfer (REST) API

Cisco VIM Operation

Verify Cisco VIM

Logging Information

Cisco VIM Monitor

Cisco VIM Monitor Alerts

Cisco VIM Monitor Dashboards

Troubleshooting Cisco VIM

Troubleshooting the Cisco Network Convergence System (NCS) 5500

Troubleshooting Cisco Nexus 9000 Cisco (N9K)

Lab outline

Management Node Installation

Cisco VIM Installation

VMs Installation

Cisco VIM MON