DCICT (INTRODUCING CISCO DATA CENTER TECHNOLOGIES) 6.1

Objetivo

Introducing Cisco Data Center Technologies (DCICT) v6.1 course is a five-day instructor-led training (ILT) program that introduces students to Cisco technologies and products that are deployed in the data center: network virtualization, network technologies, unified computing, automation and orchestration, and the Cisco Application-Centric Infrastructure (Cisco ACI). The introductory level of knowledge that is provided in these courses is targeted for individuals who can perform basic configuration tasks. The hands-on lab exercises focus on configuring features on Cisco Nexus Operating System (Cisco NX-OS), Cisco Unified Computing System (Cisco UCS), and Cisco UCS Director. Upon completion of this course, you will be able to: Describe and configure Cisco UCS Describe and configure Cisco data center virtualization Describe and configure Cisco data center networking Describe and configure Cisco automation and orchestration Describe and verify Cisco ACI

Público Alvo

Professional or career level: Senior Network Engineer, Pre sales Engineer, Design Engineer, Data Center Administrator, Senior Systems Engineer, Senior Technical Solutions Architect.

Pré-Requisitos

The learner is expected to have the following skills and knowledge before attending this course: Good understanding of networking protocols Good understanding of the VMware environment Cisco learning offerings that contribute to recommended skills and knowledge: Introducing Cisco Data Center Networking (DCICN) v6.1

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Module 1: Cisco Data Center Network Virtualization
Lesson 1-1: Describing Functional Planes of Cisco Nexus Switches
Lesson 1-2: Describing Cisco Nexus Operating System VRF Contexts
Lesson 1-3: Describing Virtual Device Contexts
Lesson 1-4: Describing the Function of Overlays
Lesson 1-5: Describing Virtualization
Lesson 1-6: Describing Virtual Switches

Module 2: Cisco Data Center Network Technologies Configuration

Lesson 2-1: Describing Cisco Fabric Extender Connectivity
Lesson 2-2: Describing Port Channels and Virtual Port Channels
Lesson 2-3: Describing Cisco FabricPath
Lesson 2-4: Describing Unified Port Feature of Cisco Nexus Switches
Lesson 2-5: Describing Cisco Unified Fabric

Module 3: Cisco Unified Computing System
Lesson 3-1: Describing Data Center Server Connectivity
Lesson 3-2: Describing Cisco IMC Supervisor
Lesson 3-3: Describing Cisco UCS Manager Operations
Lesson 3-4: Describing Role-Based Access Control
Lesson 3-5: Describing Hardware Abstraction in Cisco UCS

Module 4: Data Center Automation and Orchestration
Lesson 4-1: Exploring the Utility of Application Programming Interfaces
Lesson 4-2: Introducing Cloud Computing Basic Concepts
Lesson 4-3: Describing Cloud Attributes and Service Models
Lesson 4-4: Describing Cisco UCS Director
Lesson 4-5: Describing VDCs, Tenants, and Policies
Lesson 4-6: Describing Orchestration
Lesson 4-7: Managing Catalogs and Templates
Lesson 4-8: Reporting in Cisco UCS Director (CloudSense)

Module 5: Cisco Application-Centric Infrastructure
Lesson 51: Describing Cisco ACI
Lesson 5-2: Describing Cisco ACI Fabric
Lesson 5-3: Programming and Orchestrating Cisco ACI

Lab Details:
Guided Lab 1: Connect to Cisco Nexus Series Switches by Using SSH
Guided Lab 2: Configure VRFs
Guided Lab 3: Explore the Elements of Virtual Device Contexts
Guided Lab 4: Install VMware ESXi and vCenter
Guided Lab 5: Configure the Cisco Nexus 2000 Fabric Extender
Guided Lab 6: Configure Virtual Port Channels

Challenge Lab 7: Configure Virtual Port Channels with FEX
Guided Lab 8: Configure Cisco FabricPath
Guided Lab 9: Configure Unified Ports on Cisco Nexus Switch
Guided Lab 10: Implement FCoE
Guided Lab 11: Configure the Cisco UCS 6200 Series Fabric Interconnect
Guided Lab 12: Navigate the Cisco UCS Manager GUI Interfaces
Guided Lab 13: Configure Local RBAC
Guided Lab 14: Configure Pools
Guided Lab 15: Configure a Service Profile Template
Guided Lab 16: Configure Cisco NX-OS with APIs
Guided Lab 17: Explore the Management Information Tree of the Cisco UCS Manager XML API
Guided Lab 18: Configure User Accounts in Cisco UCS Director

Guided Lab 19: Add Virtual and Physical Accounts to Cisco UCS Director
Guided Lab 19: Add Virtual and Physical Accounts to Cisco UCS Director
Guided Lab 20: Customize Cisco UCS Director
Guided Lab 21: Explore Cisco UCS Director Monitoring Capabilities
Guided Lab 22: Create Policies and VDCs
Guided Lab 23: Create a Catalog, Provision a VM Using the Self-Service Portal, and Explore Reports