

DCEIS 1.0 (CISCO INTERSIGHT ESSENTIALS 1.0) 1.0

Objetivo

Upon completing this course you will be able to: -Describe Cisco Unified Computing System (UCS), Hardware, Connectivity, and Management -Describe Cisco Intersight Characteristics -Describe Cisco Intersight licensing and Cisco Intersight licensed features -Describe Cisco Intersight server profile deployment -Describe prerequisites and various options for installing an operating system from Cisco Intersight -Describe Cisco Intersight Virtual Appliance and how to deploy and configure different deployment modes -Describe the Cisco UCS X-Series Platform -Describe Cisco UCS M6 portfolio of products -Describe firmware management in Intersight for Cisco UCS infrastructure devices -Describe Cisco UCS Converged Infrastructure -Describe Cisco Intersight account creation and the most important settings -Describe Cisco Intersight Managed Mode (IMM) -Describe Cisco HyperFlex Deployment with Cisco Intersight -Describe Cisco Intersight Virtualization Service (IVS) features and functionality and describe additional ecosystem services that support virtualization service -Describe Cisco Intersight Workload Optimizer (IWO), model your environment as a market with buyers and sellers, and discover IWO's monitoring targets, policies, and planning scenarios -Describe how to use Intersight Cloud Orchestrator (ICO) and Workflow Automation to manage and automate IT operations, create and manage tasks, and design custom workflows - Provide a brief description of HashiCorp Terraform -Describe Cisco Intersight API -Describe the usage of the IMM Transition Tool

Público Alvo

This course is designed for the following roles: -System administrators -Technical solutions architects -Systems integrators -Channel partners -Value-added resellers -Customer sales engineers -DevOps engineers -Sales engineers -Systems engineers -Technical solutions architects

Pré-Requisitos

Before enrolling in this course, you should have: -Data Center experience -Operating systems and virtualization experience -Understanding of server system design and architecture -Basic knowledge of servers and storage -Familiarity with Cisco Unified Computing System (Cisco UCS) and Cisco Hyperflex -Familiarity with Cisco UCS networking and storage concepts The following Cisco courses may help you meet these prerequisites: -Introducing Cisco Unified Computing System (DCIUCS) -Configuring Cisco Unified Computing System (DCCUCS)

Carga Horária

24 horas (3 dias).

Conteúdo Programático

Course Introduction

Course Outline

Course Goals & Objectives

Cisco Unified Computing System Fundamentals

- Cisco UCS Server Hardware
- Cisco UCS Connectivity
- Cisco UCS Manager
- Cisco Intersight
- Cisco UCS Service and Server Profiles

Cisco Intersight Characteristics

- Cisco Intersight Architecture
- Flexible Deployment Models
- Cisco Intersight Security
- Cisco Intersight Authentication Options
- Setup Cisco Intersight SaaS Account
- Cisco Intersight Role-Based Access Control
- Connected Cisco Technical Assistance Center
- Cisco Intersight Tagging
- Cisco Intersight Dashboard, Inventory, and Faults
- Firmware Management
- Hardware Compatibility List (HCL) Feature
- Best Practices for Updating Firmware using Cisco Intersight
- Cisco Intersight Managed Operating System Installation
- Context Launch and KVM

Cisco Intersight Licensing Options

- Cisco Intersight Licensing
- Cisco Licensed Features
- Connecting Cisco Intersight to Cisco Smart Licensing
- Setting up Cisco Intersight SaaS Account

Cisco Intersight Server Profile Deployment

- Cisco Unified Computing System Server Profile Overview
- Cisco UCS Pools and Server Policies
- Configuring Compute Policy
- Cisco UCS Server Profile Templates
- Deploying a Cisco UCS Server Profile
- Configuring and Applying Service Profile
- Importing a Cisco UCS Server Profile
- Cloning Cisco UCS Server Profiles
- Unassigning a Cisco UCS Server Profile
- Assign Server Profile to a Server

Cisco Intersight Server Operating System Installation

- Cisco Intersight Operating System Installation
- Cisco Intersight Operating System Installation Requirements
- Adding an Operating System Image
- Adding an SCU
- Operating System Installation Using Cisco Source
- Operating System Installation Using Custom Source

Operating System Installation Using Embedded Source
Understanding Placeholder Variables
Password Encryption in Operating System Install
Operating System Installation Using a CSV File
Installing an Operating System

Cisco Intersight Virtual Appliance

Cisco Intersight Virtual Appliance Overview
Cisco Intersight Virtual Appliance System Requirements
Cisco Intersight Virtual Appliance Licensing
Cisco Intersight Virtual Appliance Setup
Cisco Intersight Virtual Appliance Initial Setup Wizard
Cisco Intersight Connected Virtual Appliance
Cisco Intersight Private Virtual Appliance
Claiming Targets in Cisco Intersight Virtual Appliance
Cisco Intersight Virtual Appliance Backup and Restore
Cisco Intersight Virtual Appliance Feature Matrix
Installation of Cisco Intersight Virtual Appliance

Cisco Unified Computing System X-Series

Data Center Trends
Cisco UCS X-Series Architecture
Cisco UCS X-Series Hardware
Cisco UCS X-Series Deployment
Cisco Intersight Deployment Models
Cisco Intersight Managed Mode Overview
Device Console
Organizations with RBAC
Cisco Intersight Alarms and Faults
Cisco Intersight Custom Dashboards?
Cisco Intersight Syslog Policies
SNMP Support?
Cisco UCS X-Series Fabric Review
Cisco UCS Fabric Interconnect Port Configuration
Ethernet Switching Modes
Fibre Channel Switching Modes
Storage Connectivity

Cisco Unified Computing System B- and C-Series Servers

Intel Innovations
Cisco UCS C220 M6
Cisco UCS C220 M7
Cisco UCS C240 M6
Cisco UCS C240 M7
AMD Innovations
Cisco UCS C225 M6 Rack Server
Cisco UCS C245 M6
The Power of Cisco Intersight

Cisco Network Adapters and GPUs for Rack Servers
Management Options for Cisco UCS Rack Servers
Cisco UCS B200 M6
Cisco UCS B200 M5 to Cisco UCS B200 M6 Comparison
Monitor UCS Servers from Cisco Intersight

Cisco Intersight Platform Firmware Operation

Cisco Intersight Platform Firmware Operations Overview
Cisco Intersight Firmware Bundles
Cisco Intersight Standalone Servers Firmware Management
Cisco Intersight HyperFlex Firmware Management
Cisco UCS Managed Server Firmware Management
Cisco Intersight Managed Mode Firmware Management
Cisco Intersight Hardware Compatibility Lists

Cisco Unified Computing System Converged Infrastructure

Cisco UCS Converged Infrastructure Overview
Cisco-Validated Designs
Cisco Intersight Integration
Cisco Intersight Orchestration
Cisco UCS X-Series with FlexPod
Cisco UCS X-Series with FlashStack

Accessing Cisco Intersight

Cisco Intersight Login
Cisco Intersight Licensing
Cisco Intersight Single Sign-On
Cisco Intersight Organizations
Intersight Dashboard Management
Cisco Intersight Inventory Views

Cisco Intersight Managed Mode

Cisco Intersight Managed Mode Overview
Cisco IMM Benefits

Cisco HyperFlex Deployment with Cisco Intersight

Cisco HyperFlex Installation Using Cisco Intersight
Cisco HyperFlex Validated Design Considerations
Create HyperFlex Profile
Installing, Configuring, and Deploying HyperFlex with Cisco Intersight
Implement HyperFlex Profile
Cisco HyperFlex Edge ESXi Installation through Cisco Intersight Differences
Cisco HyperFlex Initial Functionality Validation
Cisco HyperFlex Full Stack Upgrade
Cisco HyperFlex Upgrade Enhancements
Additional Cisco Intersight HX Cluster Features and Configurations
Upgrade Cisco HyperFlex Edge Cluster

Cisco Intersight Virtual Services

Cisco Intersight Platform Firmware Operations Overview
Cisco IVS for On-Premises Workloads
Cisco IVS for Public Clouds
Cisco Intersight VMware Features
IVS Targets Device Claiming
Cisco IVS Use Cases

Cisco Intersight Workload Optimizer

IWO Introduction and Overview
Getting Started with Cisco IWO
GUI and Dashboards
Settings and User Access
Targets and Cisco Integrations
Configuring Targets and Licensing IWO
Adding Cloud Targets in IWO
Day-to-Day Optimization
Policies and Automation
Configuring Device Groups in Cisco IWO
Setting Up Schedules and Automation Actions
Configuring Optimization Policies in Cisco IWO
IWO Planning
Adding Workload Plan in IWO
Planning Hardware Replacement in IWO
Planning Migrations to Public Cloud in IWO

Cisco Intersight Cloud Orchestration

Introducing Cisco ICO
Cisco ICO Tasks
Cisco ICO Task Designer
Cisco ICO Workflows
Cisco ICO Workflow Designer
Cisco ICO Task Response Parser
Cisco ICO Workflow Versioning
Task Outputs as Inputs for Other Tasks
Cisco ICO Rollback Tasks
Cisco ICO Conditional Tasks
Cisco ICO Transformations

Terraform Provider Registry

Getting Started with Terraform
Installing HashiCorp Terraform
Terraform Commands
Terraform Components
Terraform with Cisco Intersight

Cisco Intersight API

Cisco Intersight API Overview

Cisco Intersight REST API with Postman
Cisco Intersight Integration with ServiceNow
Ansible Integration with Cisco Intersight

Cisco IMM Transition Tool

IMM Transition Tool Overview
IMM Transition Tool Features
IMM Transition Tool Installation
IMM Transition Tool Readiness Report

Labs

Discovery 1: Navigate the Cisco Intersight User Interface
Discovery 2: Configure Organizations and Roles
Discovery 3: Configure Server Features
Discovery 4: Create Pools and Policies
Discovery 5: Create Server Profile
Discovery 6: Create Server Profiles from Server Profile Template
Discovery 7: Configure Cisco ICO
Discovery 8: Configure Terraform Provider Registry
Discovery 9: Configure Cisco Intersight API with Python
Discovery 10: Configure Cisco Intersight API with Ansible