

## Designing the Cisco Cloud (CLDDES)

- **Formato do curso:** Presencial
- **Localidade:** Lisboa
- **Com certificação:** CCNP Cloud
- **Data:** 14 Out. 2019 a 18 Out. 2019
- **Preço:** 2720€
- **Horário:** Laboral - das 09h00 às 17h00
- **Nível:** Avançado
- **Duração:** 35 horas

Designing the Cisco Cloud (CLDDES) is a new 5-day ILT course designed to help students prepare for the CCNP Cloud certification, a professional level certification specializing in Cloud technologies. This course is designed to provide students with the necessary knowledge and hands-on skills to design cloud deployments using the Cisco Cloud portfolio.

Este curso prepara-o para o exame: 300-505 CLDDES

### Pré-requisitos

- Understanding Cisco Cloud Fundamentals (CLDFND)
- Introducing Cisco Cloud Administration (CLDADM)

### Objectivos

Upon course completion, you will be able to:

- Translate the business requirements into Cisco Cloud automation designs
- Define the appropriate Cisco Cloud solution, based on a broad range of products and technologies
- Design for the self-service user portal
- Design for the Application and Platform as a service
- Design for a Private Cloud infrastructure, automation, and security
- Design for a Hybrid Cloud infrastructure, automation, and security
- Design for Virtual Network Services for Private and Hybrid Clouds
- Describe the VM Lifecycle management

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# Programa

## Module 1: Translate Requirements into Automation Designs

- Cloud overview
  - Computing
  - Characteristics
  - Models
  - Deployment models
  - Benefits
  - Adoption
- Key business requirements for cloud
- Automation
  - Cloud APIs
  - IaaS
  - PaaS
  - SaaS
  - Design
- Cisco cloud portfolios overview
  - ONE Enterprise cloud suite
  - PSC
  - UCS director
  - Virtual application cloud segmentation (VACS)
  - Intercloud fabric
  - PNSC
- Automation tasks
- PSC stack designer with PaaS

## Module 2: Design a Private Cloud Infrastructure

- Pod designs
  - vBlock
  - FlexPod
  - VSPEX
  - Scalability
  - UCS director
- Cloud design storage considerations
- Storage connectivity types
- Thin vs. thick provisioning
- Storage provisioning methods
- Cloud network service automation tools
  - APIC (ACI)
  - Nexus data broker
  - Metapod

## Module 3: Design a Hybrid Cloud Infrastructure

- Public cloud architectures
  - Amazon Web Services
  - Microsoft Azure
  - IBM SoftLayer
  - Cisco Intercloud Ecosystem
- Cisco Intercloud Fabric director
- Cisco Prime Service catalog
- Site-to-site and remote access VPN
- MPLS technology

## Module 4: Secure the Cloud Infrastructure

- Administrative access
- RBAC
- Centralized authentication
- Secure multitenant capabilities
- Infrastructure security components

## Module 5: Virtualization and Virtual Network Services for Private and Hybrid Clouds

- Hypervisor ecosystem
  - VM-mobility
  - Disaster recovery
  - High availability vs. fault tolerance
  - Memory ballooning
- Workload dependencies
- VM migration
- VM format conversion
- VM lifecycle management

### Labs:

- Creating a UCS Director Workflow for Baremetal Provisioning
- Design and Create Cisco UCS Director Catalog Entries for Discovered VM Templates
- Design Prime Service Catalog Storefront for UCS Director
- Creating an Application Template in the Cisco Stack Designer
- Provision VACS Container
- Choosing a Hybrid Cloud Solution
- RBAC and LDAP Integration in Cisco UCS Director
- Plan for ICF Cloud Requirements and Deployment
- Design Hybrid Cloud Connectivity and Security
- Design for VM Lifecycle and Cisco ICFD Integration in the Hybrid Cloud