ITTcert
BY ORSYS

Course : Designing Cisco Data Center Infrastructure (DCID) v7.1

Official course, exam preparation 300-610 DCID

Practical course - 5d - 35h00 - Ref. CDK
Price : 4140 € E.T.

With this training course, you'll learn how to design datacenters with Cisco solutions: virtualization, Layer 2/3 technologies, routing protocols and datacenter interconnection. You'll discover best design practices around Cisco UCS (B-Series, C-Series, UCS Manager, Unified Fabric) and gain experience with network management tools such as Cisco UCS Manager, DCNM and UCS Director.

Teaching objectives

At the end of the training, the participant will be able to:

- Ensure high availability at Layer 2 to avoid network interruptions in data centers.
- Design Layer 3 connectivity with dynamic routing and efficient network segmentation.
- Build Spine-Leaf Data Center topologies for performance, resilience and scalability.
- Use Cisco OTV to interconnect multiple data centers with continuity and mobility.
- Understanding LISP to separate localization and IP identification, facilitating network mobility
- Deploy VXLAN to extend Layer 2 networks over virtualized Layer 3 infrastructures.
- Describe and master hardware virtualization to optimize data center resources and flexibility.
- Integrate Cisco FEX to extend equipment without complicating network management.
- Appliquer les principes de sécurité basique pour protéger l'infrastructure Data Center.
- Automate data center management and orchestration with Cisco UCS Manager and SDN.

Intended audience

IT professionals with 5 to 8 years' experience as datacenter, network or systems engineers, administrators, technical architects, Cisco integrators, consultants or network managers.

Prerequisites

Know how to implement LAN/SAN networks, virtualization, Cisco UCS, ACI/UCS Director automation and know the Nexus and MDS ranges.

Practical details

Teaching methods

Training in French. Official course material in English.

Course schedule

(1) Official program

- Describe Layer 2 high availability.
- Layer 3 connectivity design.
- Design data center topologies.
- Designing data center interconnections with Cisco OTV.
- Describe the Locator/ID Separation Protocol (LISP).
- Describe VXLAN overlay networks.
- Describe hardware and device virtualization.
- Describe Cisco FEX options.
- Describe basic data center security.
- Describe advanced data center security.
- Describe management and orchestration.
- Describe storage and RAID options.
- Describe Fibre Channel concepts.
- Describe Fibre Channel topologies.
- Describe FCoE.
- Describe storage safety.
- Describe SAN management and orchestration.
- Describe Cisco UCS servers and their use cases.
- Describe Fabric Interconnect connectivity.
- Describe hyperconverged and integrated systems.
- Describe Cisco UCS Manager system parameters.
- Describe Cisco UCS role-based access control (RBAC).
- Describe pools for service profiles.
- Describe policies for service profiles.
- Describe network-specific adapters and policies.
- Describe templates in Cisco UCS Manager.
- Designing data center automation.

(2) Official practical work

- Layer 2 high availability.
- Layer 3 connectivity design.
- Data Center topology design.
- Locator/ID separation protocol (LISP).
- VXLAN overlay networks.
- Hardware and device virtualization.
- Cisco FEX options.
- Basic data center security.
- Advanced data center security.
- Management and orchestration.
- Storage options and RAID.
- Fibre Channel topologies.
- Fibre Channel topologies (probable duplication).
- FCoE.
- Storage security.
- SAN management and orchestration.
- Cisco UCS servers and use cases.
- Connectivity Fabric Interconnect
- Hyperconverged and integrated systems.
- Cisco UCS Manager system parameters.
- Cisco UCS role-based access control (RBAC).
- Pools for service profiles.
- Policies for service profiles.
- Network-specific adapters and policies.
- Templates in Cisco UCS Manager.
- Data Center automation design.

Options

Certification : 350 € HT

To obtain Cisco Certified Network Professional Data Center (CCNP Data Center) certification, you need to pass exam 350-601 DCCOR, as well as one of the following exams (your choice): 300-610 DCID, 300-615 DCIT or 300-620 DCACI.

Comment passer votre examen ?

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.

Dates and locations

REMOTE CLASS
2026 : 16 Mar., 15 June, 28 Sep., 7 Dec.

PARIS LA DÉFENSE
2026 : 16 Mar., 15 June, 28 Sep., 7 Dec.