Course : Troubleshooting Cisco Data Center Infrastructure (DCIT) v7.1

Official course, exam preparation 300-615 DCIT

Practical course - 5d - 35h00 - Ref. CDN
Price : 4350 € E.T.

With this training, you will develop your troubleshooting skills for LAN, SAN, Cisco Unified Fabric, Cisco UCS, and Cisco ACI networks. You will practice troubleshooting Cisco MDS switches, Nexus switches, Fabric Extenders (FEX), Cisco UCS, Cisco ACI, and other key data center components.

Teaching objectives

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

- Using the CLI to diagnose and troubleshoot a Cisco data center network
- Solve problems related to VLAN, PVLAN, port channels, OTV and VXLAN
- Diagnose OSPF, EIGRP, PIM and LAN security features
- Identify and correct problems related to a single network device
- Solve Fibre Channel interface and Fibre Channel switching problems
- Solve FCoE and FIP problems, including performance issues
- Understand Cisco UCS architecture and associated troubleshooting tools
- Troubleshooting UCS B-Series servers and their configuration
- Resolve LAN, SAN and Fibre Channel failures across the entire infrastructure
- Using IMC and Cisco UCS Manager to troubleshoot C-Series servers and network integration

Intended audience

Network engineers, administrators, technical architects, systems/datacenter engineers, Cisco integrators, partners.

Prerequisites

Configure, secure and maintain LAN, SAN, Cisco UCS and Cisco ACI.

PARTICIPANTS

Network engineers, administrators, technical architects, systems/datacenter engineers, Cisco integrators, partners.

PREREQUISITES

Configure, secure and maintain LAN, SAN, Cisco UCS and Cisco ACI.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Practical details

Teaching methods

Training in French. Official course material in English.

Course schedule

1 Official program

- Describe the troubleshooting process.
- Understand command-line troubleshooting tools (CLI).
- Troubleshoot VLANs and PVLANs.
- Troubleshoot Port Channels and Virtual Port Channels (vPC).
- Troubleshoot VXLAN.
- Troubleshoot routing and high-availability protocols.
- Troubleshoot data center LAN security.
- Troubleshoot platform-specific problems.
- Troubleshoot Fibre Channel interfaces.
- Troubleshoot Fibre Channel fabric services.
- Troubleshooting NPV mode.
- Troubleshooting FCoE (Fibre Channel over Ethernet).
- Troubleshoot Cisco UCS architecture and initialization.
- Troubleshoot Cisco UCS configuration.
- Troubleshoot Cisco UCS B-Series servers.
- Troubleshoot LAN and SAN connectivity on Cisco UCS B-Series.
- Troubleshoot Cisco UCS C-Series servers.
- Troubleshoot LAN and SAN connectivity on Cisco UCS C-Series.
- Troubleshoot Cisco UCS C-Series integration with Cisco UCS Manager.
- Explore troubleshooting tools and methodologies for Cisco ACI.
- Troubleshoot automation and scripting tools.
- Troubleshoot programmability.

2 Official practical work

- Document the network reference base.
- Troubleshooting Rapid PVST+.
- Troubleshooting LACP.
- Troubleshooting vPC.
- Troubleshoot VXLAN.
- Troubleshoot OSPF.
- Troubleshooting FHRP (First Hop Redundancy Protocol).
- Troubleshooting Cisco Fabric Services.
- Troubleshooting VRF (Virtual Routing and Forwarding).
- Troubleshooting Cisco FEX (Fabric Extender).
- Troubleshoot Fibre Channel interfaces.
- Troubleshoot Fibre Channel VSANs, zones and domain services.
- Troubleshooting NPV mode.
- Troubleshooting FCoE (Fibre Channel over Ethernet).
- Troubleshooting DCB (Data Center Bridging).
- Troubleshoot Cisco UCS management and service profile deployment.
- Troubleshoot LAN connectivity on Cisco UCS C-Series servers.
- Troubleshooting Cisco UCS C-Series server startup from a Fibre Channel LUN.
- Troubleshoot management connectivity on Cisco UCS C-Series servers.
- Troubleshoot Cisco ACI integration with VMware vCenter.
- Troubleshoot contracts in Cisco ACI.
- Troubleshoot Layer 2 and Layer 3 external connectivity in Cisco ACI.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

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.