

Troubleshooting Cisco Data Center Infrastructure

Duración: 5 Días **Código del Curso: DCIT**

Temario:

The focus of this skills-building course is troubleshooting of LAN, SAN, Cisco Data Center Unified Fabric, Cisco Unified Computing System (UCS), and Cisco Application Centric Infrastructure (ACI). The course provides rich, hands-on experience in resolving problems on Cisco MDS switches, Cisco Nexus switches, Cisco fabric extenders (FEXs), Cisco UCS, and Cisco ACI.

Dirigido a:

Engineers involved in the troubleshooting of LAN, SAN, Cisco Data Center Unified Fabric, Cisco Unified Computing System (UCS) and Cisco Application Centric Infrastructure (ACI). Channel Partners Customers Employees Entry-level to experienced Network Administrator Senior Network Engineer Presales Engineer Design Engineer Data Center Administrator Senior Systems Engineer Senior Technical Solutions Architect

Objetivos:

- **After completing this course you should be able to:**
- Troubleshoot Layer 2 technologies, such as STP, port channels, vPC, Cisco FabricPath, and FEX
- Troubleshoot first-hop redundancy, routing, and CFS in the data center
- Troubleshoot virtualization solutions, such as OTV, VRF, and VXLAN
- Troubleshoot storage area networks, including Fibre Channel, FCoE, zoning, NPV, and NPIV
- Troubleshoot data center unified computing

Prerequisites:

It is recommended that a learner should have attended the following classes or obtained an equivalent level of knowledge before attending this course:

- Introducing Cisco Data Center Networking (DCICN) v6.0 or higher
- Introducing Cisco Data Center Technologies (DCICT) v6.0 or higher
- Implementing Cisco Data Center Infrastructure (DCII) v6.0 or higher
- Implementing Cisco Data Center Virtualization and Automation (DCVAI) v6.0 or higher
- Implementing Cisco Data Center Unified Computing (DCUCI) v6.0 or higher

Exámenes y certificación

Recommended as preparation for exam:

- **300-180 - DCIT** - Troubleshooting Cisco Data Center Infrastructure
This is one of four exams required for the Cisco CCNP Data Center Certification

Siguientes cursos recomendados:

Students looking to achieve their CCNP in Data Center will also require :

- **DCUCI** - Implementing Cisco Data Center Unified Computing
- **DCII** - Implementing Cisco Data Center Infrastructure
- **DCVAI** - Implementing Cisco Data Center Virtualization and Automation

Contenido:

Troubleshooting the Data Center LAN Network

- Overview of the Troubleshooting Process
- Understanding CLI Troubleshooting Tools
- Troubleshooting VLANs and Private VLANs
- Troubleshooting Port Channels and Virtual Port Channels
- Troubleshooting Cisco FabricPath
- Troubleshooting Cisco OTV
- Troubleshooting VXLAN
- Troubleshooting Platform-Specific Issues

Troubleshooting Data Center SAN

- Troubleshooting Fibre Channel Interfaces
- Troubleshooting Fibre Channel Fabric Service
- Troubleshooting NPV Mode
- Troubleshooting FCoE
- Troubleshooting DCBX

Troubleshooting Data Center Unified Computing

- Troubleshooting Cisco UCS B-Series Architecture and Initialization
- Troubleshooting Cisco UCS B-Series Configuration
- Troubleshooting Cisco UCS B-Series Operation
- Troubleshooting Cisco UCS B-Series LAN and SAN Connectivity
- Troubleshooting Cisco UCS B-Series Hardware
- Troubleshooting Cisco UCS C-Series Architecture and Configuration
- Troubleshooting Cisco UCS C-Series Hardware and Firmware
- Troubleshooting Cisco UCS C-Series LAN and SAN Connectivity
- Troubleshooting Cisco UCS C-Series and Cisco UCS Manager Integration

Troubleshooting Data Center ACI

- Exploring the Tools and Methodology of Troubleshooting

Labs:

- Lab 1: Document the Network Baseline
- Lab 2: Troubleshoot LAN-RSTP
- Lab 3: Troubleshoot LAN-LACP
- Lab 4: Learning Lab: Troubleshoot LAN-vPC
- Lab 5: Troubleshoot LAN-FabricPath
- Lab 6: Troubleshoot LAN-OTV
- Lab 7: Troubleshoot LAN-OSPF
- Lab 8: Troubleshoot LAN-FHRP
- Lab 9: Troubleshoot LAN-VRF
- Lab 10: Troubleshoot LAN-VXLAN
- Lab 11: Troubleshoot LAN-CFS
- Lab 12: Troubleshoot LAN-FEX
- Lab 13: Troubleshoot SAN-FC Interfaces
- Lab 14: Troubleshoot SAN-FC VSANs, Zones, and Domain Services
- Lab 15: Troubleshoot SAN-NPV Mode
- Lab 16: Troubleshoot SAN-FCoE
- Lab 17: Troubleshoot SAN-DCB
- Lab 18: Troubleshoot Compute-Cisco UCS Management and Service Profile Deployment
- Lab 19: Troubleshoot Compute-Cisco UCS B-Series Server Boot from SAN
- Lab 20: Troubleshoot Compute-LAN Connectivity, Part 1
- Lab 21: Troubleshoot Compute-LAN Connectivity, Part 2
- Lab 22: Troubleshoot Compute-Failover Connectivity, Part 1
- Lab 23: Troubleshoot Compute-Failover Connectivity, Part 2
- Lab 24: Troubleshoot Compute-Cisco UCS C-Series Server Boot from SAN
- Lab 25: Troubleshoot Compute-Network Connectivity
- Lab 26: Troubleshoot ACI-Bare Metal Hosts
- Lab 27: Troubleshoot ACI-VMM
- Lab 28: Troubleshoot ACI-Contracts
- Lab 29: Troubleshoot ACI-External Layer 3
- Lab 30: Troubleshoot ACI-External Layer 2

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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