

Troubleshooting Cisco Data Center Infrastructure (DCIT) 7.2

Duration: 05 Days (40 HRS)

Description

The **Troubleshooting Cisco Data Center Infrastructure (DCIT)** training shows you how to troubleshoot LAN, SAN, Cisco® Data Center Unified Fabric, Cisco Unified Computing System™ (Cisco UCS®), and Cisco Application-Centric Infrastructure (Cisco ACI®). You will learn methodologies and tools to identify issues that may occur in data center network architecture. You will get extensive hands-on practice troubleshooting installation, configuration, and interconnectivity issues on Cisco Multilayer Director Switch (MDS) switches, Cisco Nexus® switches, Cisco Fabric Extenders (FEXs), Cisco UCS, and Cisco ACI.

How You'll Benefit

This training will help you:

- Learn how to deploy and troubleshoot various components of Cisco data center infrastructure to support performance, resiliency, scalability needs
- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software
- Qualify for professional-level job roles
- Prepare for the 300-615 DCIT v1.2 exam
- Earn 50 CE credits toward recertification

Who Should Enroll

- Network Designers
- Network Administrators
- Network Engineers
- System Engineers
- Data Center Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators and Partners
- Server Administrators

Course Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Configure, secure, and maintain LAN and SAN based on Cisco Nexus and MDS switches
- Configure, secure, and maintain Cisco Unified Computing System
- Configure, secure, and maintain Cisco ACI

These skills can be found in the following Cisco Learning Offerings:

- [Implementing and Administering Cisco Solutions \(CCNA\)](#)
- [Understanding Cisco Data Center Foundations \(DCFNDU\)](#)
- [Implementing Cisco Data Center Core Technologies \(DCCOR\)](#)
- [Implementing Cisco NX-OS Switches and Fabrics in the Data Center \(DCNX\)](#)
- [Introducing Cisco Unified Computing System \(DCIUCS\)](#)

- [Configuring Cisco Unified Computing System \(DCCUCS\)](#)

Course Outline

- Describing the Troubleshooting Process
- Understanding CLI Troubleshooting Tools
- Troubleshooting VLANs and PVLANS
- Troubleshooting Port Channels and Virtual Port Channels
- Troubleshooting VXLAN
- Troubleshooting Routing and High-Availability Protocols
- Troubleshooting Data Center LAN Security
- Troubleshooting Platform-Specific Issues
- Troubleshooting Fibre Channel Interfaces
- Troubleshooting Fibre Channel Fabric Services
- Troubleshooting NPV Mode
- Troubleshooting Cisco UCS Architecture and Initialization
- Troubleshooting Cisco UCS Configuration
- Troubleshooting Cisco UCS B-Series Servers
- Troubleshooting Cisco UCS B-Series LAN and SAN Connectivity
- Troubleshooting Cisco UCS C-Series Servers
- Troubleshooting Cisco UCS C-Series LAN and SAN Connectivity
- Troubleshooting Cisco UCS C-Series and Cisco UCS Manager Integration
- Cisco Intersight Overview

- Cisco Nexus Dashboard Overview
- Cisco Nexus Dashboard Connectivity and Installation
- Exploring the Tools and Methodologies for Troubleshooting Cisco ACI
- Troubleshooting Automation and Programmability Tools
- On-Box Programmability and Automation with Cisco NX-OS
- Off-Box Programmability and Automation with Cisco NX-OS

Lab Outline

- Document the Network Baseline
- Troubleshoot Rapid PVST+
- Troubleshoot LACP
- Troubleshoot vPC
- Troubleshoot VXLAN
- Troubleshoot OSPF
- Troubleshoot FHRP
- Troubleshoot Cisco Fabric Services
- Troubleshoot VRF
- Troubleshoot Fibre Channel Interfaces
- Troubleshoot Fibre Channel VSANs, Zones, and Domain Services
- Troubleshoot NPV Mode
- Troubleshoot Cisco UCS Management and Service Profile Deployment
- Troubleshoot Cisco UCS C-Series Server LAN Connectivity

- Troubleshoot Cisco UCS C-Series Server Boot from the Fibre Channel LUN
- Troubleshoot Cisco UCS C-Series Server Management Connectivity
- Troubleshoot Cisco ACI Integration with VMware vCenter
- Troubleshoot Contracts in Cisco ACI
- Troubleshoot Cisco ACI External Layer 3 Connectivity
- Troubleshoot Cisco ACI External Layer 2 Connectivity