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CISCO DCIT v7.0 Certification Training

Due to Covid-19 safety restrictions PhoenixTS will temporarily be unable to provide food to our students who attend class at our Training Center; however, our Break Areas are **currently open** where students will find a constant supply of Coffee, Tea and Water. Students may bring their own lunch and snacks to eat in our breakrooms or at their seat in the classroom or eat out at one of the many nearby restaurants.

Course Overview

Our 5 day, instructor- led Cisco DCIT v7.0 (Troubleshooting Cisco Data Center Infrastructure) training and certification boot camp in Washington, DC Metro, Tysons Corner, VA, Columbia, MD or Live Online shows you how to troubleshoot LAN, SAN, Cisco Data Center Unified Fabric, Cisco Unified Computing System (UCS), and Cisco Application-Centric Infrastructure (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 MDS switches, Cisco Nexus switches, Cisco Fabric Extenders (FEXs), Cisco UCS, Cisco ACI, and more.

This course helps prepare you to take the exam, Troubleshooting Cisco Data Center Infrastructure (300-615 DCIT), which leads to CCNP Data Center and the Cisco Certified Specialist – Data Center Operations certifications. The exam will be available beginning February 24, 2020.

After taking this course, you should be able to:

- Describe how to troubleshoot the data center network
- Describe the troubleshooting tools and methodologies that are available from the CLI and are used to identify and resolve issues in a Cisco Data Center network architecture
- Identify and resolve issues that are related to: VLANs and PVLANS; port channels and virtual port channels; OTV; and VXLAN
- Describe troubleshooting of routing protocols such as OSPF, EIGRP, and PIM.
- Describe troubleshooting of the LAN security features
- Identify and resolve issues that are related to a single device
- Identify and resolve issues that are related to Fibre Channel interface operation
- Identify and resolve Fibre Channel switching issues when the Cisco NX-OS Software is used in



switched mode, and in NPV mode

- Identify and resolve issues that are related to FIP and FCoE, including FCoE performance
- Describe Cisco UCS architecture, initial setup, tools, and service aids that are available for Cisco UCS troubleshooting and interpretation of the output
- Describe Cisco UCS configuration and troubleshoot related issues
- Describe Cisco UCS B-Series Blade Server operation and troubleshoot related issues
- Describe LAN, SAN, and Fibre Channel operations, including in-depth troubleshooting procedures
- Describe Cisco IMC tools for validating performance and facilitating data-gathering activities for Cisco UCS C
- Series server troubleshooting, and the troubleshooting approach for hardware and firmware failures
- Define the proper procedures for configuring LAN and SAN connectivity, avoiding issues with the VIC, and troubleshooting connectivity issues
- Troubleshoot Cisco UCS C-Series server integration with Cisco UCS Manager
- Identify the tools, protocols, and methods to effectively troubleshoot Cisco ACI
- Describe how to troubleshoot automation, scripting tools, and programmability

Course Outline

Describing the Troubleshooting Process

Understanding CLI Troubleshooting Tools

Troubleshooting VLANs and PVLANS

Troubleshooting Port Channels and Virtual Port Channels

Troubleshooting Cisco OTV

Troubleshooting VXLAN

Troubleshooting Routing and High-Availability Protocols



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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 and Cisco UCS Manager Integration

Exploring the Tools and Methodologies for Troubleshooting Cisco ACI

Troubleshoot Automation and Scripting Tools

Troubleshoot Programmability



Lab Outline

- Document the Network Baseline
- Troubleshoot Rapid PVST+
- Troubleshoot LACP
- Troubleshoot vPC
- Troubleshoot OTV
- Troubleshoot VXLAN
- Troubleshoot OSPF
- Troubleshoot FHRP
- Troubleshoot Cisco Fabric Services
- Troubleshoot VRF
- Troubleshoot Cisco FEX
- Troubleshoot Fibre Channel Interfaces
- Troubleshoot Fibre Channel VSANs, Zones, and Domain Services
- Troubleshoot NPV Mode
- Troubleshoot FCoE
- Troubleshoot DCB
- 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 iSCSI Boot
- Troubleshoot Cisco UCS C-Series Server Management Connectivity
- Troubleshoot Bare-Metal Hosts Connectivity Through Cisco ACI
- 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

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