UCS Troubleshooting Boot Camp v1.0

UCSTSBC

Delivery Type: Classroom
Duration: 5 days

Overview

This is an intensive course that combines the Cisco UCS B-Series and C-series troubleshooting courses. Delegates will learn how to identify and configure the features available in theCisco UCS B-Series and C-series products to ensure that can successfully deploy and maintain their unified computing system.

This course includes the new features added by Cisco UCM code version 2.0.You will receive an overview of the new hardware available with this release, namely the Cisco 6248 Fabric Interconnects, 2208 IOMs, and 1208 VICs.Hands-on experience is vital to a successfull deployment and in this course you will be able to properly install, configure, and troubleshoot UCS B-Series servers in conjunction with UCS C-Series servers operating in standalone mode.

Target Audience

Anyone involved in the deployment and maintenance of a Cisco UCS solution.

Pre-Requisites

Attendees should meet the following prerequisites:

- ✓ Understanding of server system design/architecture and Cisco Enterprise Data Center Architecture
- ✓ Familiarity with Cisco UCS Architecture
- ✓ Familiarity with Ethernet and TCP/IP networking, SANs, Fibre Channel Protocol (FCP), and hypervisor technologies (VMware vSphere, Microsoft Hyper-V, Citrix Xen)
- ✓ Attendanced of DCUCD or DCUCI recommended

Objectives

After completing this course, you should be able to:

- ✓ UCS benefits, connectivity configuration, management, and maintenance
- ✓ Stateless computing and unified fabric
- ✓ MACROBUTTON NoMaro UCS Series product platform with an emphasis on feature support
- ✓ Initial setup, configuration, and connectivity to ensure proper Cisco Integrated Management Controller (CIMC) operation
- ✓ UCS Series troubleshooting methodology and common configuration challenges
- ✓ CIMC utilities that enable performance validation and facilitate data gathering activities for troubleshooting purposes
- ✓ Download firmware updates by using Host Upgrade Utility (HUU)
- ✓ Perform server BIOS updates with various methods
- ✓ Update the server BIOS by using the EFI shell

- ✓ Recover a UCS Series server using a USB Recovery Module
- ✓ Features and benefits of the UCS C-Series P81E Virtual Interface Card (VIC)
- ✓ Perform the proper network (LAN) configuration steps for the P81E VIC
- ✓ Troubleshoot issues and recommended solutions for the UCS Series P81E VIC
- ✓ Cisco VIC P81E SAN configuration and vHBA properties
- ✓ Fibre Channel over Ethernet Initialization Protocol (FIP) and validate its proper configuration
- ✓ SAS extender and expander options for the C-Series servers
- ✓ Install an operating system onto a local disk and using a SAN boot
- ✓ Download and install additional device drivers after successful OS installation
- ✓ Common device driver and operating system troubleshooting issues and their recommended solutions
- ✓ Execute the password recovery process for UCS Series server CIMC and BIOS passwords
- ✓ Configure management access to the UCS C-Series server through the LAN on Motherboard and NIC ports
- ✓ Configure the UCS C-Series Intelligent Peripheral Management Interface (IPMI) for management access
- ✓ Configure the UCS C-Series Serial over LAN (SoL) service
- ✓ Components required to complete UCS C-Series integration with UCS Manager
- ✓ Configure the Fabric Interconnect and Fabric Extender for a UCS C-Series server
- ✓ Configure the UCS C-Series server to operate as part of a UCS Manager instance