DCUCAI - Administering Cisco UCS with Intersight

Duration: *4 Day(s)*

Course Overview

DCUCAI, Administering Cisco Data Center Unified Computing System with Intersight is a 4-day instructor-led course. In this Cisco UCS server training course, you will become experienced with the administration and troubleshooting of Cisco Unified Computing System (UCS) X-Series, B-Series, C-Series, next-gen UCS servers including using Cisco Intersight SaaS for UCS management. This custom-built Cisco UCS training class was developed by EnterOne using the best lessons from all available Cisco server courses to maximize the learning experience for individuals who want to focus on day-to-day administration using Intersight SaaS as the primary interface to manage UCS Infrastructure.

Using real-world scenarios and examples, this Cisco training course will explore the components of the UCS-X, B-Series Blades, C-Series Rack Mount, and cover next-gen solutions such as C4500. Intersight SaaS provides a day-to-day administrative single interface for managing UCS infrastructure. Learn to access Intersight, claim devices, run UCSM commands from Intersight, Firmware Upgrades, and other functions.

Review this course online at https://www.alta3.com/courses/DCUCAI

Objectives

- Understand the Cisco UCS product lines including X-Series, B-Series, and C-Series.
- Administer and manage UCS infrastructure using Cisco Intersight SaaS.
- Implement firmware upgrades and troubleshoot UCS server operations.
- Integrate and utilize various management and orchestration tools including REST API and Terraform.

Who Should Attend

- Systems Administrators
- Technical Solutions Architects
- Systems Integrators
- Channel Partners

Prerequisites

- Basic knowledge of Cisco routing and switching
- Basic knowledge of Cisco Unified Computing Systems
- Basic knowledge of servers and storage
- Familiarity with Cisco UCS and Hyperflex

Course Outline

Module 1: UCS Infrastructure Components with Intersight and IMM

1. Reviewing the Cisco UCS Product Line, Use Cases, and Components
2. Introduction to Cisco Intersight and IMM Best Practices
3. Exploring Cisco UCS Intersight User Interfaces with IMM Integration
4. Cisco UCS Intersight Management Framework and IMM Features
5. UCS Intersight Use Cases in IMM Environments
6. UCS Intersight Deployment Options with IMM Considerations

Module 2: Administering Cisco Servers with Intersight and Automation Tools

7. Cisco UCS Servers and Components
8. Intersight RBAC, Organizations, and Active Directory Integration
9. Configuring Compute Node Network Connectivity with Intersight
10. Creating Identity and Resource Pools
11. Creating Intersight Server Profiles
12. Creating Templates and Cloning Server Profiles
13. Managing Server Profiles
14. Operating System Installation Options and Workflow
15. Upgrading UCS X/C-Series Firmware
16. Troubleshooting Cisco UCS X-Series Configuration
17. Troubleshooting Cisco UCS B-Series Operation

Module 3: Intersight Orchestration and Programmability with ICO

18. Intersight Orchestrator: Mastering Workflow Automation in UCS
19. Navigating the Workflow Designer in Cisco Intersight
20. Harnessing the Power of REST API with Intersight
21. Python Scripting for Enhanced UCS Management
22. Seamless Ansible Integration in the Intersight Environment
23. Utilizing Terraform Provider for Efficient Intersight Operations
24. ICO Integration: Bridging Intersight with Terraform and PowerShell

Module 4: Administering UCS Management Tools with IMM and Automation Integrations

25. UCS Management Ecosystem Overview with IMM Best Practices
26. Intersight UCS Element Managers UI Launch
27. Inserting infrastructure calls via the Intersight Framework with PowerShell and Terraform

Module 5: Operating Intersight with Advanced Security and Automation

28. Setting up Intersight SaaS and On-Prem Appliance with IMM Integration
29. Implementing Security (PCI/HIPAA) Connectors with IMM Compliance
30. Connected TAC and Proactive Support with Smart Call Home in IMM Environments
31. Advanced Monitoring, Fault Reporting, and Server Actions in Intersight
32. Server HCL, CVE, Contract Status Management using IMM
33. Firmware Upgrades with Automated IMM Processes
34. Standalone Management for UCS C-Series with Intersight and IMM Insights

Module 6: Intersight Orchestration and Programmability with ICO and Scripting Tools

35. Mastering Intersight Orchestrator and Workflow Designer for UCS Automation

36. Utilizing REST API with Intersight for Enhanced UCS Management
37. Python Scripting for Advanced Intersight Operations
38. Integrating UCS with Ansible in the Intersight Environment
39. Deploying the Intersight Terraform Provider for Infrastructure as Code
40. ICO Integration Strategies with Terraform and PowerShell in UCS Management

Module 7: Advanced Intersight UCS Operations with AI and IMM

41. Intersight Platform Firmware Operations Overview
42. Intersight Firmware Bundles
43. Cisco Stand-Alone Firmware Management

Labs

44. Connecting to the Lab Environment
45. Exploring Cisco Intersight Interface
46. Setting Up IMM in Cisco Intersight
47. Implementing and Troubleshooting RBAC using the Intersight API
48. Nutanix Integration in Cisco UCS
49. Cisco UCS X-Series Configuration with Intersight
50. Designing LAN and SAN Connectivity for UCS
51. Managing UCS-X in IMM Mode
52. Firmware Management in Cisco UCS-X with Intersight
53. Utilizing Intersight Workload Optimizer (IWO)
54. Orchestrating Workflows with Intersight Cloud Orchestrator (ICO)
55. Implementing Automation with Intersight API and Ansible
56. Using the Intersight API for Automation Tasks, Focusing on Python Scripting
57. Troubleshooting Connectivity and Performance in Intersight-Managed UCS Environments
58. AI-Powered Systems Management