

# Administering Cisco Data Center Unified Computing System with Intersight and Programmability (DCUCSBC)

## Course Contents:

### Module 1: UCS Infrastructure Components with Intersight

- Cisco UCS Product Line, Use Cases, and Components
- Introducing Cisco Intersight
- Describing Cisco UCS C-Series Servers

### Module 2: Administering Cisco UCS with Intersight

- Managing Virtual Resources
- Configuring Compute Node LAN Connectivity
- Configuring Compute Node SAN Connectivity
- Creating Identity and Resource Pools
- Creating Service Profiles
- Creating Service Profile Templates and Cloning Service Profiles
- Managing Service Profiles
- Troubleshooting Cisco UCS B-Series Configuration
- Troubleshooting Cisco UCS B-Series Operation
- Backing Up & Restoring the Cisco UCS Manager Database
- Managing and Upgrading Cisco UCS B-Series Firmware

### Module 3: Administering UCS Management Tools with Intersight

- Describing Cisco UCS User Interfaces
- Exploring Intersight User Interfaces
- Describing Cisco UCS Management Framework & Features
- Describing Cisco UCS Hyperflex
- Getting Started with Intersight Programmability

### Module 4: Examining the Intersight Object Model and API tools

- Understanding Managed Objects in Intersight
- Using the REST API Browser to test resources and methods and run results
- Intersight Developer tools

### Module 5: Interacting with the Intersight REST API using Postman

- Using the Postman collection repo
- Configuring environment variables
- Intersight Collection Postman How-To
- Understanding request headers
- Why use a pre-request script?
- Request examples for managing UCS and HX in Intersight

## Module 6: Using Python to manage operations with the Intersight REST API

- Using the Intersight Python SDK
- How to Generate API Keys and Secrets
- looking at the contents of the rest-API repository
- Leveraging Python examples with Intersight
- Running and validating python requests on Intersight

## Module 7: Managing and automating Intersight with Ansible

- Installing Ansible and the UCS Python SDK
- Installing the UCS and UCSM Ansible Collections
- Configure and run UCS Ansible Playbooks
- Install the Intersight Ansible Collection
- Configure and run Intersight Ansible Playbooks
- Intersight Automated Hyperflex Deployment with Ansible How-To

## Module 8: Deploying UCS infrastructure with Intersight and Terraform

- Terraform Workflow Overview
  - How to Install GO and Terraform
  - Intersight Terraform Provider requirements and config
  - Terraform configuration files
  - How to Initialize Terraform
  - Create and configure Terraform Resources
  - Running Terraform Apply to configure UCS infrastructure in Intersight
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