

Implementing Automation for Cisco Data Center Solutions

(DCAUI) 1.2

Description

The Implementing Automation for Cisco Data Center Solutions (DCAUI) training shows you how to implement Cisco Data Center automated solutions, including programming concepts, orchestration, and automation tools. The goal of this 5-day training is to highlight the tools and benefits of leveraging programmability and automation in the Cisco-powered Data Center. Examined platforms include Cisco ACI (the controller-based Data Center environment), Cisco NX-OS on all Cisco Nexus platforms for device-centric automation, and Cisco UCS for Data Center compute. Their current ecosystem of APIs, software development toolkits, and relevant workflows is inspected in detail together with open industry standards, tools, and APIs, such as Python, Ansible, Git, JSON/YAML, NETCONF/RESTCONF, and YANG

Duration – 40 HRS

Prerequisite

Before taking this offering, you should have:

- Basic knowledge of programming language concepts
- Basic understanding of virtualization and VMware
- Ability to use Linux and CLI tools, such as SSH and bash
- CCNP level data center knowledge
- Foundational understanding of Cisco ACI

Outline

1. Describing the Cisco ACI Policy Model
2. Describing the Cisco APIC REST API
3. Using Python to Interact with the Cisco ACI REST API
4. Using Ansible to Automate Cisco ACI
5. Introducing Cisco NX-OS Programmability
6. Describing Day-Zero Provisioning with Cisco NX-OS
7. Implementing On-Box Programmability and Automation with Cisco NX-OS
8. Implementing Off-Box Programmability and Automation with Cisco NX-OS
9. Automating Cisco UCS Using Developer Tools
10. Describing Cisco Intersight