kod szkolenia: DCAUI / e-learning

E-Learning - Implementing Automation for Cisco Data Center Solutions

Cisco - On Demand E-Learning

The Implementing Automation for Cisco Data Center Solutions (DCAUI) v1.1 course teaches you how to implement Cisco Data Center automated solutions including programming concepts, orchestration, and automation tools.

Through a combination of lessons and hands-on practice, you will manage the tools and learn the benefits of programmability and automation in the Cisco-powered data center. You will examine Cisco Application Centric Infrastructure (Cisco ACI), software-defined networking (SDN) for data center and cloud networks, Cisco Nexus (Cisco NX-OS) platforms for device-centric automation, and Cisco Unified Computing System (Cisco UCS) for data center compute.

You will study the current ecosystem of Application Programming Interfaces (APIs), software development toolkits, and relevant workflows along with open industry standards, tools, and APIs, such as Python, Ansible, Git, JavaScript Object Notation (JSON), Yaml Ain't Markup Language (YAML), Network Configuration Protocol (NETCONF), Representational State Transfer Configuration Protocol (RESTCONF), and Yet Another Next Generation (YANG).

This course helps you prepare for the Automating Cisco Data Center Solutions (300-635 DCAUTO) certification exam. Introducing Automation for Cisco Solutions (CSAU) is required prior to enrolling in Implementing Automation for Cisco Data Center Solutions (DCAUI) because it provides crucial foundational knowledge essential to success.

Access Duration: 180 days

Continuing Education Credits: 24

Purpose of the training

This course is designed for network and software engineers who hold the following job roles:

- Network engineer
- Systems engineer
- Wireless engineer
- Consulting systems engineer
- Technical solutions architect
- Network administrator
- Wireless design engineer
- Network manager
- Site reliability engineer
- Deployment engineer
- Sales engineer
- Account manager

Benefits of completing the training

This course will help you:

- Gain high-demand knowledge and skills in modern programming language to create powerful APIs that enhance network functioning
- Prepare for the 300-635 DCAUTO exam

Exam description

Certyfication:
Associated Certifications: CCNP Data Center, Cisco Certified DevNet Professional
Associated Exam: 300-635 DCAUTO

Expected Listener Preparation

Before taking this course, you should have the following knowledge and skills:

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

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

- Introducing Automation for Cisco Solutions (CSAU)
- Implementing and Administering Cisco Solutions (CCNA)
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)
- Programming Use Cases for Cisco Digital Network Architecture (DNAPUC)
- Introducing Cisco Network Programmability (NPICNP)

Training Language

Language: English
Materials: English

Training Includes

- Labs
- Self-Paced Training
- Video Training

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Training agenda

- Leverage the tools and APIs to automate Cisco ACI powered data centers
- Demonstrate workflows (configuration, verification, healthchecking, monitoring) using Python, Ansible, and Postman
- Leverage the various models and APIs of the Cisco Nexus OS platform to perform day 0 operations, improve troubleshooting methodologies with custom tools, augment the CLI using scripts, and integrate various workflows using Ansible and Python
- Describe the paradigm shift of Model Driven Telemetry and understand the building blocks of a working solution
- Describe the Cisco Data Center compute solutions can be managed and automated using API centric tooling, by using the Python SDK, PowerTool, and Ansible modules to implement various workflows on Cisco UCS, Cisco IMC, Cisco UCS Manager, Cisco UCS Director, and Cisco Intersight