

Developing Applications Using Cisco Core Platforms and APIs (DEVCOR)

Description

The Developing Applications Using Cisco Core Platforms and APIs (DEVCOR) v1.0 course helps you prepare for Cisco DevNet Professional certification and for professional-level network automation engineer roles. You will learn how to implement network applications using Cisco® platforms as a base, from initial software design to diverse system integration, as well as testing and deployment automation. The course gives you hands-on experience solving real world problems using Cisco Application Programming Interfaces (APIs) and modern development tools.

This course helps you prepare to take the 350-901 Developing Applications Using Cisco Core Platforms and APIs (DEVCOR) exam. By passing this exam, you satisfy the core exam requirement toward Cisco Certified DevNet Professional, and you earn the Cisco Certified DevNet Specialist – Core certification

Course Content

Module 1: Designing for Maintainability Module 2: Designing for Serviceability Module 3: Implementing ChatOps Application Module 4: Describing Advanced REST API Integration Module 5: Securing Application Data Module 6: Securing Web and Mobile Applications Module 7: Automating Application-Release Module 8: Deploying Applications Module 9: Understanding Distributed Systems Module 10: Orchestrating Network and Infrastructure Module 11: Modeling Data with YANG Module 12: Using Relational and Non-Relational Databases

Lab / Exercises

- Construct Sequence Diagram
- Construct Web Sequence Diagram
- Use Cisco Webex Teams™ API to Enable ChatOps
- Integrate Cisco Meraki™ API to List Service Set Identifiers (SSIDs) and Retrieve Location Data
- Use Paginated REST API Endpoint
- Utilize REST API Error Control Flow Techniques
- Evaluate Application for Common Open Web Application Security Project (OWASP) Vulnerabilities
- Resolve Merge Conflicts with Git
- Diagnose Continuous Integration and Continuous Delivery (CI/CD) Pipeline Failures
- Containerize Application Using Docker
- Integrate Application into Existing CI/CD Environment
- Diagnose Problems Using Application Logs
- Configure Network Parameters Using Ansible and Puppet
- Synchronize Firepower Device Configuration
- Utilize RESTCONF for Network Configuration
- Query Relational Database
- Query Document Store
- Query Time Series Database
- Query Graph Database

Documentation

- Digital courseware included

Exam

- This course prepares you to the 350-901 DEVCOR Developing Applications Using Cisco Core Platforms and APIs exam. If you wish to take this exam, please contact our secretariat who will let you know the cost of the exam and will take care of all the necessary administrative procedures for you.

Participant profiles

- Network engineers
- Solution architects
- Infrastructure developers
- Senior software developers
- Senior system integration programmers
- Senior test development engineers

Prerequisites

- Knowledge of program design and coding with focus on Python
- Familiarity with Ethernet, TCP/IP, and Internet-related networking
- Understand the utilization of APIs
- Hands-on experience with a programming language (specifically Python)
- Participants should have followed or have knowledge covered by: [Developing Applications and Automating Workflows using Cisco Core Platforms](#)

Objectives

- Take full advantage of the network and software development practices when you implement applications to fulfill business needs
- Gain proficiency with applications, automation, and Cisco platforms

Niveau

Intermédiaire

Virtual Classroom Registration Price (CHF)

4350

Duration (in Days)

5

Reference

CIS-DEVCOR