DEVCOR

Developing Applications Using Cisco Core Platforms and APIs

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.

Students will be able to:

- Describe the architectural traits and patterns that improve application maintainability
- Describe the architectural traits and patterns that improve application serviceability
- Identify steps to design and build a ChatOps application
- Implement robust Representational State Transfer (REST) API integrations with network error handling, pagination, and error flow control
- Describe the necessary steps for securing user and system data in applications
- Describe the necessary steps for securing applications
- Identify common tasks in automated application release process
- Describe best practices for application deployment
- Describe methodologies for designing distributed systems
- Describe the concepts of infrastructure configuration management and device automation
- Utilize Yet Another Next Generation (YANG) data models to describe network configurations and telemetry
- Compare various relational and nonrelational database types and how to select the appropriate type based on requirements

Course requirements:

- Knowledge of program design and coding with focus on Python
- Familiarity with Ethernet, TCP/IP, and Internet-related networking
- Understand the utilization of APIs
- Understanding of software development and design methodologies
- Hands-on experience with a programming language (specifically Python)

This course is intended for:

- Network engineers expanding their skill-base to include software and automation
- Developers expanding expertise in automation and DevOps
- Solution architects moving to the Cisco ecosystem
- Infrastructure developers designing hardened production environments.
- Senior network automation engineer, Senior software developer, Senior system integration programmer
- Senior infrastructure architect, Senior network designer, Senior test development engineer

Literature:

All participants will get original Cisco student and lab guides and time limited remote access to lab environment.

Hardware:

Labs are practiced on Cisco delivered Virtual lab environment. Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

- *Designing for Maintainability*
- *Designing for Serviceability*
- Implementing ChatOps Application
- Describing Advanced REST API Integration
- *Securing Application Data*
- *Securing Web and Mobile Applications*
- Automating Application-Release
- Deploying Applications
- Understanding Distributed Systems
- Orchestrating Network and Infrastructure
- Modeling Data with YANG
- *Using Relational and Non-Relational Databases*

* *Points in italics are defined as self-study according to the Cisco's company official curriculum.*

Contact us
OKsystem a.s., Na Pankráci 1690/125, 140 00 Prague 4
(+420) 236 072 111 skoleni@oksystem.cz www.okskoleni.cz

OKškolení
by OKsystem