

# Cisco Nexus NX-OS Programmability

Course code: DC-PRG1

To introduce participants to various options and tools for development of own applications used to automate configuration and monitoring on a Cisco Nexus(NX-OS) platform. Participants will gain practical experience with NX-OS "On-Box" and "Off-Box API" tools as well as they get basic overview of programming for Cisco ACI. The training course contains several hands-on labs providing participants with opportunity to implement prepared examples and perform their own experiments around them.

## Required skills

Participants are expected to have fundamental TCP/IP networking knowledge and experience with administration of Cisco Nexus devices and NX-OS CLI (Command Line Interface). As the course is software oriented, good experience with programming/scripting in Python language is needed as well.

## Course outline

- Development Environment Preparation
- Network APIs &Automation Protocols
- Cisco Nexus Programmability Introduction
- On-Box Programmability and Automation with Cisco Nexus NX-OS
- NX-OS Bash Scripting
- Cisco Nexus Linux Containers
- NX-OS Python Library
- Off-Box Programmability and Automation with Cisco Nexus NX-OS
- Cisco Nexus NX-API
- Cisco Nexus NX-API REST Object Oriented Data Model
- Cisco ACI Programmability Overview

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