NSO Essentials for Programmers and Network Architects (NSO201)

Price: 3595

Duration:

Delivery Methods: Virtual

Overview

The Cisco NSO Essentials for Programmers and Network Architects (NSO201) training introduces you to Cisco® Network Services Orchestrator (NSO). You will learn to install Cisco NSO and use it to manage devices and create services based on YANG templates with XPath. This training provides a brief overview of NSO as a network automation solution, as well as introductions to NETCONF, YANG, and XPath. You will learn about managing devices and creating device templates, service management and service packages creation, network element drivers, and interfacing with other systems using application programming interfaces (APIs), configuring and troubleshooting system settings, managing alarms and reporting, configuring NSO for scalability and performance, and capabilities that can be added to Cisco NSO.

How You'll Benefit

This training will help you:
- Learn how to install Cisco NSO, use it to manage devices, and create services based on YANG templates with XPath
- Gain confidence with NSO configuration and basic troubleshooting

Who Should Enroll
- System installers
- System integrators
- System administrators
- Network administrators
- Solutions designers

Path Objectives

After taking this training, you should be able to:
- Explain the transactional service activation and how it relates to business requirements
- Explain how Cisco NSO communicates with network devices
- Understand the NETCONF protocol and be able to read and write simple YANG models
- Understand the difference between devices that are fully NETCONF capable and those that are less or not NETCONF capable
- Understand the support for candidate configuration and confirmed commit support
- Use logs to troubleshoot the Cisco NSO deployment and check NSO communication with network devices
- Explain the YANG service model structure
- Design a real-world usable service
- Explain the mapping logic of service parameters to device models and consequently to device configurations
- Describe the use of different integration options and APIs
- Explain how to implement action with use of config-templates in NSO package
- Explain the use of Reactive FASTMAP in for manipulating and implementing advanced NFV components
- Describe the use of feature components and function packs
- Define and explain the ETSI MANO principles and solution
- Work with the alarm console, and understand the NSO alarm structure and how it conforms to modern network operations procedures
- Describe Cisco NSO 6.0 new features and changes in NSO

Learning Path Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:
- Basic knowledge of the Cisco command-line interface (CLI) or the CLI of UNIX-like operating systems
- Working knowledge of UNIX-based operating systems and basic tasks
- Basic knowledge of programming constructs
- Basic knowledge of YANG data modelling
- Basic knowledge of NETCONF communication protocol
- Knowledge of XML data structures and schemas
- Basic management of network components (routers, switches, etc.)

These skills can be found in the following Cisco Learning Offerings:
- Introducing Automation for Cisco Solutions (CSAU)
- Programming for Network Engineers (PRNE)

Learning Path Outline
- Introducing Service Orchestration with Cisco NSO
- Exploring Cisco NSO Architecture
- Orchestrating Network Solutions

- Describing Cisco NSO Operation
- Installing Cisco NSO
- Exploring the Advantages of NETCONF
- Managing Devices Using the Device Manager
- Creating YANG Models
- Using Services
- Implementing Services with Model-to-Model Mapping
- Designing Services in Cisco NSO
- Managing the Service Lifecycle
- Programming with Python in Cisco NSO
- Configuring and Troubleshooting System Settings
- Discovering Cisco NSO Northbound APIs
- Managing Alarms and Reporting
- Configuring Cisco NSO for Scalability and Performance
- Describing Cisco NSO VNF Manager and Function Packs

Course Schedule

Date	Time	Price	Options

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