

# Implementing and Configuring the Cisco Nexus 1000 and 5000 v1.0

ICNX1-5



**Delivery Type:** Classroom

**Duration:** 5 days

## Overview

The Cisco Nexus product family consists of several products whose individual value is further increased when combined. The Cisco Nexus 1000V is a virtual switch that resides within a VMware ESX Server instance and provides operations and management consistency with existing Cisco Nexus and Catalyst switches. The Cisco Nexus 5000 is a high-density, low latency 10GE switch targeted for top-of-rack and end-of-row deployments, and is the industry's first FCoE-capable switch for I/O consolidation.

When deployed together, the Nexus 5000 and Nexus 1000V enable simple policy-based deployment of virtual machines with coordinated configuration of LAN and SAN access.

This 5-day course includes hands-on labs in which you will configure the Nexus 5000 and FCoE, a VMware infrastructure, the Nexus 1000V, and demonstrate policy mobility during virtual machine migration.

## Pre-Requisites

Attendees should have the following skills:

- ✓ L2 switching and Cisco network design;
- ✓ Advanced L2 services such as QoS and ACLs;

- ✓ Working knowledge of Fibre Channel Storage Networking;
- ✓ Familiarity with VMware deployment and administration.

## Objectives

After you complete this course you will be able to:

- ✓ Design virtual access layer topologies using the Nexus 5000, 2000, and 1000V
- ✓ Install and configure the Nexus 1000V
- ✓ Configure Nexus 1000V security profiles
- ✓ Configure VMware services to test and verify Nexus 1000V operation
- ✓ Monitor and troubleshoot Nexus 1000V environments
- ✓ Describe how FCoE operates within SAN and LAN environments
- ✓ Describe the core features of the NX-OS platform
- ✓ Describe the ASIC-level architecture of the switch and CNAs, and explain how the architecture impacts network design
- ✓ Configure the Nexus 5000 in switch mode and NPV mode
- ✓ Configure VN-Link on the Nexus 5000
- ✓ Manage traffic flow and priority
- ✓ Configure security policies
- ✓ Implement high-availability configurations
- ✓ Troubleshoot Nexus 5000 hardware and FCoE configurations.

## Target Audience

This course is designed for experienced Network Field Engineers, VMware Engineers, and Data Center Architects with a strong knowledge of Cisco switching products.

## Further Information

Attendees may also be interested in the Nexus 7000, and should perhaps consider:

- ✓ ICNX7 - Implementing and Configuring the Nexus 7000