



DCNX5K (Configuring Cisco Nexus 5000 Switches)

前提条件

- Fibre Channel プロトコルと SAN 環境の理解 (推奨)

受講対象者

- ネットワーク管理者
- ネットワーク設計者
- ネットワークエンジニア
- システムエンジニア
- シスコインテグレーター
- シスコパートナー

概要

このコースでは、Cisco Nexus 5000 シリーズスイッチをインストールおよび実装するために必要な知識とスキルについて学習します。Cisco Nexus 5000 シリーズスイッチの主なコンポーネントと、インストール、設定、管理、トラブルシュートに必要な手順について説明します。

目的

このコースを修了すると次のことができるようになります。
Cisco Nexus 5000 シリーズスイッチを設定する

アウトライン

Module 1: Cisco Nexus 5000 Series Switches
Lesson 1: Describing the Cisco Nexus Product Family
Lesson 2: Describing Cisco Nexus 3000 Series Switches
Lesson 3: Describing Cisco Nexus 4000 Series Switches
Lesson 4: Describing Cisco Nexus 5500 and 5600 Series Switches
Lesson 5: Describing Cisco Nexus 2000 Series Fabric Extenders

Module 2: Cisco Nexus 5000 Series Switch Administration and Management

Lesson 1: Describing the Cisco NX-OS Software Architecture
Lesson 2: Configuring System Management Features
Lesson 3: Configuring User Management
Lesson 4: Configuring Cisco Prime DCNM
Lesson 5: Describing Administration and Management Troubleshooting Tools

Module 3: Cisco NX-API and Python on Cisco Nexus 5000 Series Switches
Lesson 1: Using Cisco NX-API on Cisco Nexus 5000 Series Switches
Lesson 2: Using Python on Cisco Nexus 5000 Series Switches

Module 4: Cisco Nexus 5000 Series Switch LAN Features
Lesson 1: Configuring Cisco Nexus 2000 Series Fabric Extenders
Lesson 2: Troubleshooting Cisco Nexus 2000 Series Fabric Extender
Lesson 3: Configuring Layer 2 Switching Features
Lesson 4: Troubleshooting Layer 2 Switching
Lesson 5: Describing vPC Technology and Enhanced vPC
Lesson 6: Configuring vPCs and EvPCs
Lesson 7: Troubleshooting vPCs and EvPCs
Lesson 8: Describing Cisco Adapter-FEX and VM-FEX
Lesson 9: Cisco FabricPath
Lesson 10: Configuring Cisco FabricPath
Lesson 11: Troubleshooting Cisco FabricPath
Lesson 12: Describing Cisco DFA
Lesson 13: Describing Cisco RISE
Lesson 14: Describing Cisco ITD
Lesson 15: Configuring Cisco ITD

Module 5: VXLAN on Cisco Nexus 5000 Series Switches
Lesson 1: Describing VXLAN Technology
Lesson 2: Configuring VXLAN on Cisco Nexus 5000 Series Switches

Module 6: Cisco Nexus 5000 Series Switch SAN Features
Lesson 1: Describing FCP
Lesson 2: Describing SAN Switching
Lesson 3: Configuring SAN Switching
Lesson 4: Troubleshooting SAN Switching
Lesson 5: Describing Cisco NPV Mode and NPIV
Lesson 6: Configuring Cisco NPV Mode and NPIV
Lesson 7: Troubleshooting Cisco NPV Mode and NPIV

Module 7: Cisco Nexus 5000 Series Switch Unified Fabric Features
Lesson 1: Describing Cisco Data Center Bridging Enhancements
Lesson 2: Describing the FCoE Protocol
Lesson 3: Configuring FCoE
Lesson 4: Describing Dynamic FCoE with Cisco FabricPath
Lesson 5: Troubleshooting FCoE

Lab Outline

Lab 1: Initial Switch Configuration

Lab 2: Configuring System Management

Lab 3: Upgrading the Cisco NX-OS Software with ISSU

Lab 4: Configuring User Security

Lab 5: Configuring Cisco Prime DCNM to Perform Network Discovery

Lab 6: Using Troubleshooting Tools

Lab 7: Using Cisco Nexus 5000 Series Switch NX-API

Lab 8: Connecting the Cisco Nexus 2000 Series Fabric Extender

Lab 9: Configuring Layer 2 Switching Features

Lab 10: Troubleshooting Layer 2 Switching

Lab 11: Configuring FEX Active-Active vPC and EvPC

Lab 12: Configuring Host vPC

Lab 13: Configuring Cisco FabricPath

Lab 14: Implementing VXLAN Bridging on the Cisco Nexus 5000 Series Switch

Lab 15: Configuring SAN Switching

Lab 16: Configuring Cisco NPV Mode and NPIV

Lab 17: Troubleshooting SAN Switching

Lab 18: Configuring FCoE

Lab 19: Troubleshooting FCoE