

Length:

Format:

Course

Version:

Product

Version:

4.2.1.SV1.5.2

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Learning Business Partner

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Learning Specialized

Partner

2.3

Lecture/Lab

2 Days

Implementing and Configuring the Cisco Nexus 1000V

ICNX1V

Why Firefly



We take great care to provide current and up-to-date courseware. We typically release courseware associated to a technology version very shortly after the product is in general release. We also take the "lessons learned" from our field teams, who are constantly deploying and migrating solutions, directly into our courses.

This version of ICNX1V features the latest version of the Nexus 1000V software in the courseware 4.2.1.SV1.5.2, including the new vPath 2.0 architecture. Additionally the most recent version of Cisco Nexus 1010, 4.2.1.SP1(4a) is covered, along with updates on the Cisco Virtual Security Gateway (VSG), the Cisco 1000V ASA, and the Virtual Wide

Area Application Services (vWAAS), which provides integrated WAN optimization services.

The Cisco Nexus 1000V is a virtual switch that resides within the VMware ESXi Server instance and provides operations and management consistency with existing Cisco Nexus and Catalyst switches. The Nexus 1000V leverages the VMware's vNetwork Distributed Switch (DVS) framework, and integrates with the Cisco Nexus 1010 Virtual Network Appliance and Virtual Services Blades (VSB), to offer tightly integrated network services as part of a comprehensive Data Center server virtualization strategy. This 2-day course provides you with an indepth look at the design and configuration process for the Cisco Nexus 1000V. This course includes hands-on labs in which you will configure a VMware infrastructure, configure the Nexus 1000V with high availability and demonstrate policy mobility during virtual machine migration.

Who Should Attend

Server engineers, introducing and teaching the configuration and design aspects of the Cisco Nexus 1000V and associated products in a VMware virtual switching environment.

Prerequisites

You will gain the most from this seminar if you have at least CCNA-level knowledge of routing and switching together with some knowledge and experience of configuring a VMware virtual switching environment.

Course Description

This course is targeted at Networking and Virtual

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Learning Objectives

- Describe the Cisco Nexus 1000V Series Switch and its role in a virtual server network environment
- Describe the VMware networking environment
- Describe the Cisco Nexus 1000V Series Switch architecture
- Describe Cisco Nexus 1000V design considerations
- Describe the Cisco Nexus 1000V Virtualized Services and their role in VMware deployments
- Describe how to install, upgrade and configure a Cisco Nexus 1000V Series Switch
- Describe how configure Cisco Nexus 1000V networking using port profiles
- Describe the configuration of security on the Cisco Nexus 1000V
- Describe the Cisco Nexus 1000V Series Switch traffic flow configuration
- Describe network monitoring, troubleshooting and management of the Cisco Nexus 1000V



Implementing and Configuring the Cisco Nexus 1000V

Module 1: Networks in a Virtual Server Environment

Lesson 1: Introducing the Cisco Nexus 1000V

Lesson 2: VMware Networking

Lesson 3: Cisco Nexus 1000V Architecture

Lesson 4: Cisco Nexus 1000V Design Considerations

Lesson 5: The Cisco Nexus 1010/1100 Virtual Network Appliance and Virtualized Services

Module 2: Cisco Nexus 1000V Installation and Configuration

Lesson 1: Installing, upgrading and Configuring the Cisco Nexus 1000V

Lesson 2: Configuring Port Profiles

Lesson 3: Managing Security

Lesson 4: Traffic Flow

Lesson 5: Network Monitoring, Troubleshooting and Manageent of the Lab 1: Setting Up the Lab Environment

Lab 2: Installing the Cisco Nexus 1000V VSM

Lab 3: Installing the Cisco Nexus 1000V VEM

Lab 4: Upgrading the Cisco Nexus 1000V VSM and VEM

Lab 5: Optimizing the Cisco Nexus 1000V Implementation

Lab 6: Configuring SPAN and ERSPAN