Configuring the Cisco Nexus Data Center

Längd: 5 Days      Kurskod: CCNDC

Sammanfattning:

This is a hands-on course that focuses on designing and configuring a data center network to support a virtual computing environment (VCE). Students will construct a highly available and modular network infrastructure that can be used to provide virtualized cloud-based services using the Cisco Nexus® and MDS family of products. The Cisco Nexus 7000 and 5000 Series Switches as well as the Cisco Nexus 2000 Series Fabric Extenders will be configured into a scalable data center network. VMware vSphere ESX-based virtual machines will be connected to the data center infrastructure. Topics covered include the configuration of a data center unified fabric using both Fibre Channel and Fibre Channel over Ethernet as well as the configuration of VMware virtual switching to a Cisco Nexus based data center network. In addition, the lecture and labs will cover how to configure both VMware VMotion and Storage VMotion in the data center environment. Students will also learn how to scale the data center Layer 2 environment using Cisco® FabricPath and Overlay Transport Virtualization (OTV).

Målgrupp:

This session is intended for network or data center professionals who are involved in the design, implementation, or support of virtualized and/or cloud compute data centers.

Målsättning:

After you complete this course you will be able to:

- Describe current data center strategies such as cloud computing, virtualization, and unified fabric
- Connect VMware vSphere ESX-based virtual machines using redundant connections to a Cisco Nexus based unified data center fabric
- Configure a modern end-to-end data center infrastructure using the Cisco Nexus 2000, 5000, and 7000 Series products to support a virtual computing environment
- Configure a data center network to enable virtual machine migration using VMware VMotion and Storage VMotion technologies
- Configure a Cisco Nexus unified fabric data center network using Ethernet and FibreChannel over Ethernet
- Scale the Layer 2 data center environment using Cisco FabricPath
- Configure a Cisco MDS-based Fibre Channel data center storage area network
- Connect multiple data centers together using OTV
- Configure a Cisco Nexus unified fabric data center network using Ethernet and FibreChannel over Ethernet
- Configure a Cisco MDS-based Fibre Channel data center storage area network

Förkunskaper:

Attendees should meet the following prerequisites:

- CCNA level networking knowledge and experience configuring Cisco network routers and switches (ICND1 and ICND2 or CCNABC recommended)
- Introductory-level understanding of data center architectures and virtualization concepts

Test och certifiering

Recommended preparation for exam(s):

- There is no exam currently aligned to this course
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## Selecting Hardware to Meet the Data Center Design Requirements

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**Övrig information:**

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