



Cisco CCNA Data Center Boot Camp (Accelerated) til særpris!

Varighed: 5 Days Kursus Kode: CCNADCBC

Beskrivelse:

Cisco have announced this course is retired and replaced by: CCNA, Implementing and Administering Cisco Solutions

Our accelerated CCNA DC Boot Camp is an intensive program, designed to help you achieve your CCNA DC certification in a reduced period of time. To maximize your classroom experience and ensure that you get a comprehensive coverage of the CCNA DC materials, our two-step, blended learning approach to the CCNA DC Boot Camp consists of: Pre-Class Activity and Classroom Instruction.

The Pre-Class Activity provides you with approximately ten hours of review materials and exercises, all of which is designed to give you a firm foundation and get you focused before you enter the classroom.

Classroom Instruction includes intensive instructor-led training and hands-on labs, content in the course will introduce delegates to the three primary technologies that are used in the Cisco Data Center. The introductory level of knowledge that is taught in these courses is aimed at individuals that will be performing only the more basic configuration tasks. The labs will focus on viewing configurations, as opposed to making configuration changes or creating new topologies. Cisco technologies that are deployed in the Data Center : unified computing, unified fabric, and network services. Students will only learn how to perform the more basic configuration tasks. Labs will focus on verifying configurations, with selected exercises involving making configuration changes or designing new topologies.

Målgruppe:

CCNA's and CCNP's needing to recert and/or update skills Network administrators Network engineers Cisco Integrators/Partners Systems engineers Network designers Network managers Consulting systems engineers Technical solutions architects

Agenda:

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- After you complete this course you should be able to:
- Describe how a network works
- Configure, verify, and troubleshoot a switch with VLANs and Inter-switch communications
- Implement an IP addressing scheme and IP services to meet network requirements
- Configure, verify, and troubleshoot routing operations on Cisco Nexus switches

- Describe and verify Cisco data center fundamentals
- Describe Cisco data center virtualization
- Describe Cisco data center storage networking
- Describe Cisco data center unified fabric
- Describe and verify Cisco UCS

Forudsætninger:

Test og certificering

Attendees should meet the following prerequisites:

Recommended preparation for exam(s):

- Basic Windows navigation and keyboard literacy skills
- Basic Internet usage skills
- Basic IP addressing knowledge

Yderligere Kurser:

The following Courses are recommended for further study:

- DCUCI Cisco Data Center Unified Computing Implementation
- DCUFI Implementing Cisco Data Center Unified Fabric
 DCUCD Cisco Data Center Unified Computing Design

- DCUFD Designing Cisco Data Center Unified Fabric
 DCUCT Troubleshooting Cisco Data Center Unified Computing
- DCUFT Troubleshooting Cisco Data Center Unified Fabric

Indhold:

1: Simple Network Design

- Understanding the Functions of Networking
- Understanding the Host-to-Host Communications Model
- Describing Ethernet Connections
- Describing Ethernet Communications Standards
- Describing OSI Network Layer Addressing
- Describing the TCP/IP Transport Layer
- Describing the Packet Delivery Process
- Describing the Packet Delivery Process
- Describing Cisco NX-OS Software
- Operating Cisco NX-OS Software
- Implementing VLANs and Trunks
- Building a Redundant Switched Topology
- Transitioning to IPv6
- Exploring the Routing Process on Cisco Nexus Switches
- Exploring Routing Protocols on Cisco Nexus Switches
- Exploring ACLs on Cisco Nexus Switches
- Reviewing the Cisco Nexus Product Family
- Reviewing the Cisco MDS Product Family
- Monitoring the Cisco Nexus 7000 and 5000 Series Switches
- Describing vPCs and Cisco FabricPath in the Data Center
- Using OTV on Cisco Nexus 7000 Series Switches
- Virtualizing Storage
- Virtualizing Server Solutions
- Using the Cisco Nexus 1000V Series Switch
- Describing Fibre Channel Storage Networking
- Verifying Fibre Channel Communications on Cisco MDS 9000 Series Multilayer Switches
- Identifying Connectivity Options for FCoE on the Cisco Nexus 5000
- Describing Enhanced FCoE Scalability with Cisco Nexus 2232 10GE Fabric Extenders
- Describing the Cisco UCS C-Series Product Family
- Connecting Cisco UCS B-Series Blade Servers
- Setting up an Initial Cisco UCS B-Series Cluster
- Describing Cisco UCS Manager Operations
- Describing Cisco UCS Manager Pools, Policies, Templates, and Chassis and Blade Power Capping
- Lab 1-2: Observing the TCP Three-Way Handshake
- Lab 1-3: Observing Extended PC Network
- Lab 2-1: Connecting to Cisco Nexus Switches

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- Lab 2-2: Configuring Cisco Nexus Switches
- Lab 2-3: Configuring VLANs and Trunks
- Lab 2-4: Verifying and Configuring Spanning

- 6: Cisco Data Center Virtualization
- Virtualizing Network Devices
- Understanding the Host-to-Host Communications Model
- Describing Ethernet Connections
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- Lab 1-3: Observing Extended PC

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- Virtualizing Storage

Networking

Switches

Extenders

Servers

Cluster

Operations

Handshake

Information

Switches

Switches

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Product Family

Virtualizing Server Solutions

on the Cisco Nexus 5000

Using the Cisco Nexus 1000V Series Switch

Verifying Fibre Channel Communications

Identifying Connectivity Options for FCoE

Describing Enhanced FCoE Scalability

with Cisco Nexus 2232 10GE Fabric

Connecting Cisco UCS B-Series Blade

Setting up an Initial Cisco UCS B-Series

Describing Cisco UCS Manager Pools,

Policies, Templates, and Chassis and

Lab 1-2: Observing the TCP Three-Way

Lab 1-3: Observing Extended PC Network

Lab 2-1: Connecting to Cisco Nexus

Lab 2-2: Configuring Cisco Nexus

Lab 2-3: Configuring VLANs and Trunks

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Describing Cisco UCS Manager

Blade Power Capping

Describing the Cisco UCS C-Series

on Cisco MDS 9000 Series Multilayer

Describing Fibre Channel Storage

Tree

- Lab 2-5: Configuring EtherChannel
- Lab 3-1: Converting Decimal to Binary and Binary to Decimal
- Lab 3-2: Classifying Network AddressingLab 3-3: Computing Usable Subnetworks
- and Hosts
- Lab 3-4: Calculating Subnet Masks
- Lab 4-1: Configuring Multilayer Switching
 Lab 1-2: Connecting to a Cisco Nexus 5000 Series Switch Using SSH
- Lab 1-3: Running CLI Commands
- Lab 1-4: Configuring vPCs
- Lab 1-5: Validating Cisco FabricPath Configuration
- Lab 1-6: Validating OTV Configuration
- Lab 2-1: Verifying Current VDC Settings
- Lab 2-2: Validating a Cisco Nexus 2000 Series Fabric Extender Configuration
- Lab 2-3: Validating a Cisco Nexus 1000V Series Switch Configuration
- Lab 3-1: Validating a Cisco MDS 9100 Series Multilayer Fabric Switch License
- Lab 3-2: Configuring VSANs and Zoning
- Lab 3-3: Validating FLOGI and FCNS
- Lab 3-3: Viewing the tech-support Command Output
- Lab 4-1: Validating the Physical Connections for FCoE
- Lab 5-1: Exploring the Cisco UCS Manager GUI
- Lab 5-2: Creating a Service Profile from a Template and Performing VMware ESXi 5.0 SAN Boot
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- Network Information
- Lab 2-1: Connecting to Cisco Nexus Switches
- Lab 2-2: Configuring Cisco Nexus Switches
- Lab 2-3: Configuring VLANs and Trunks
- Lab 2-4: Verifying and Configuring Spanning Tree
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- Exploring the Routing Process on Cisco Nexus Switches
- Exploring Routing Protocols on Cisco Nexus Switches
- Exploring ACLs on Cisco Nexus Switches
- Reviewing the Cisco Nexus Product

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Lab 4-1: Validating the Physical

Lab 5-1: Exploring the Cisco UCS

Understanding the Host-to-Host

Describing Ethernet Connections

Describing Ethernet Communications

Describing OSI Network Layer Addressing

Describing the TCP/IP Transport Layer

Describing the Packet Delivery Process

Describing the Packet Delivery Process

Building a Redundant Switched Topology

Exploring the Routing Process on Cisco

Exploring ACLs on Cisco Nexus Switches

Reviewing the Cisco Nexus Product Family

Reviewing the Cisco MDS Product Family

Describing vPCs and Cisco FabricPath in

Using OTV on Cisco Nexus 7000 Series

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Monitoring the Cisco Nexus 7000 and

Exploring Routing Protocols on Cisco

Describing Cisco NX-OS Software

Operating Cisco NX-OS Software

Implementing VLANs and Trunks

Transitioning to IPv6

Nexus Switches

Nexus Switches

5000 Series Switches

the Data Center

Switches

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Communications Model

Lab 5-2: Creating a Service Profile from a

Template and Performing VMware ESXi

Command Output

Manager GUI

5.0 SAN Boot

Standards

Connections for FCoE

- Virtualizing Server Solutions
- Using the Cisco Nexus 1000V Series Switch
- Describing Fibre Channel Storage Networking
- Verifying Fibre Channel Communications on Cisco MDS 9000 Series Multilayer Switches
- Identifying Connectivity Options for FCoE on the Cisco Nexus 5000
- Describing Enhanced FCoE Scalability with Cisco Nexus 2232 10GE Fabric Extenders
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Family

- Reviewing the Cisco MDS Product Family
- Monitoring the Cisco Nexus 7000 and 5000 Series Switches
- Describing vPCs and Cisco FabricPath in the Data Center
- Using OTV on Cisco Nexus 7000 Series Switches
- Virtualizing Storage
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- Lab 2-3: Validating a Cisco Nexus 1000V Series Switch Configuration
- Lab 3-1: Validating a Cisco MDS 9100

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5000 Series Switch Using SSH

Lab 1-3: Running CLI Commands

Lab 1-5: Validating Cisco FabricPath

Lab 1-6: Validating OTV Configuration

Lab 2-1: Verifying Current VDC Settings

Lab 2-2: Validating a Cisco Nexus 2000

Series Fabric Extender Configuration

Lab 3-1: Validating a Cisco MDS 9100

Series Switch Configuration

Lab 2-3: Validating a Cisco Nexus 1000V

Series Multilayer Fabric Switch License

Lab 3-2: Configuring VSANs and Zoning

Lab 3-3: Validating FLOGI and FCNS

Lab 3-3: Viewing the tech-support

Lab 4-1: Validating the Physical

Lab 5-1: Exploring the Cisco UCS

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Command Output

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Connections for FCoE

Lab 1-4: Configuring vPCs

Configuration

Lab 4-1: Configuring Multilayer Switching
 Lab 1-2: Connecting to a Cisco Nexus

- Understanding the Host-to-Host Communications Model
- Describing Ethernet Connections
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- Describing OSI Network Layer Addressing
- Describing the TCP/IP Transport Layer
- Describing the Packet Delivery Process
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Manager GUI

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the Data Center

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Lab 1-3: Observing Extended PC Network

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Describing Cisco UCS Manager

Blade Power Capping

Describing the Cisco UCS C-Series

on Cisco MDS 9000 Series Multilayer

Switches

Switch

Networking

Switches

Extenders

Servers

Cluster

Operations

Handshake

Information

Switches

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Product Family

- Exploring the Routing Process on Cisco Nexus Switches
- Exploring Routing Protocols on Cisco Nexus Switches
- Exploring ACLs on Cisco Nexus Switches
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- Lab 3-4: Calculating Subnet Masks
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Nexus Switches

5000 Series Switches

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Nexus Switches

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Switches

Switch

Networking

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Extenders

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Lab 5-2: Creating a Service Profile from a

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