



Global Knowledge®

virtualisation

Building Blocks for Cloud Computing

training

**Global Knowledge, Leading the way
in Virtualisation Training**

- VMware
- Cisco Systems
- Microsoft
- Citrix
- Virtual Computing Environment (VCE)

**Transform your Business
with Virtualisation**

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Learning Solutions

Global Knowledge

Leading the way in IT Training

Global Knowledge is Europe's largest independent IT training company with over 10 year experience in delivering IT and Business training.

Our focus is to ensure we are supplying the best customer support and advice in our industry, placing the customer at the heart of the business and we can proudly boast:

- » Global Knowledge is the world's largest provider of authorised Cisco and Microsoft IT training
- » Cisco Global Learning Partner of the Year 2009
- » VMware Global Education Partner of the Year
- » Have the very best instructors with real-world experience
- » A large portfolio of leading IT and Business courses running out of our training centre's in Europe, the Middle East and Africa
- » A number of different delivery methods that can be tailored to suit your needs either at one of our centre's or on-site at your company
- » Exceptional value for money whilst maintaining high quality
- » A first class support team on hand to ensure your experience is seamless
- » Friendly account management on hand to offer advice and support
- » Authorised by Microsoft, Cisco, VMware, Citrix, ITIL®, PRINCE2™
- » Comprehensive portfolio of e-Learning
- » Innovative approach to learning using our "Collaborative Learning"



For more information on Global Knowledge visit our website www.globalknowledge.net

Learning Methods

Different learning styles, training objectives, student locations, and budgets demand different learning methods. Experience has taught us that a combination of instructor-led and self-paced learning tends to achieve the best results.

Global Knowledge's Collaborative Learning provides an effective knowledge solution with minimum business disruption and maximum business benefit. Incorporating a number of different learning tools, such as remote labs, podcasts, e-learning, virtual classrooms, evening surgeries, classroom training, pre-course reading, support forums, instructor tutor sessions, reference material and assessment materials it allows the delegates to choose where and when they study to achieve their desired training objectives.

We have found that this new innovative approach not only aids in the delegates knowledge transfer and success rate but it also encourages them to remain together as a community during the learning process, allowing them to share their knowledge and experiences with each other as well as the instructors. It offers different learning methods to suit each individual's needs and learning style.

Choose the right delivery method for you or your team, or talk to our training advisors about a custom, collaborative solution that best meets your needs.



Classroom Training

Our expert instructors, hands-on labs, and superior content provide excellent, results-oriented training in the classroom.



On-Site Learning

We bring expert instruction and comprehensive - even custom - curriculum directly to your facility, saving you both time and money.



Virtual Classroom e-Learning

Our Virtual Classroom e-Learning is just like our facility-based classrooms, featuring live, instructor-led training delivered via the Internet.



Self-Paced e-Learning

We offer the same superior content as our instructor-led training, with delivery available via CD-ROM or the Internet.



Training Locations

We set the standards in IT training through our very well equipped classrooms. All of our training centres are equipped to the highest standards and enjoy a continuous programme of refurbishment and renewal to ensure our delegates are comfortable and at ease for the duration of their course.



Global Knowledge Training Locations across EMEA:

- » Austria
- » Belgium
- » Denmark
- » Egypt
- » France
- » Germany
- » Ireland
- » Netherlands
- » Norway
- » Saudi Arabia
- » Spain
- » Sweden
- » United Arab Emirates
- » United Kingdom

The benefits of Virtualisation

What is Virtualisation?

Virtualisation is a proven software technology that is rapidly transforming the IT landscape and fundamentally changing the way that people compute. Today's powerful x86 computer hardware was designed to run a single operating system and a single application. This leaves most machines vastly underutilized. Virtualisation lets you run multiple virtual machines on a single physical machine, sharing the resources of that single computer across multiple environments. Different virtual machines can run different operating systems and multiple applications on the same physical computer.

Transform your Business with Virtualisation

Virtualisation dramatically improves the efficiency and availability of resources and applications in your organisation. Internal resources are underutilized under the old "one server, one application" model and IT admins spend too much time managing servers rather innovating.

- » Reduce capital costs by requiring less hardware and lowering operational costs while increasing your server to admin ratio
- » Ensure your enterprise applications perform with the highest availability and performance
- » Build up business continuity through improved disaster recovery solutions and deliver high availability throughout the datacenter
- » Improve desktop management with faster deployment of desktops and fewer support calls due to application conflicts

In the rush to consolidate operations and reduce IT capital costs, virtualisation has taken off, particularly server virtualisation.

But the introduction of virtualisation to reduce hardware and energy usage has brought in a new challenge: how to manage the virtual environment. VMware are the dominant player in the x86 virtualization space, continually offering market-leading and innovative products and solutions for customers wishing to maximize the benefits of "going virtual". Whether you want to use virtualization in your Production environment, a Test / Development scenario, or even to run a Virtual Desktop Infrastructure (VDI), VMware have the products to make it happen. The latest generation of VMware Infrastructure products, known as vSphere 4, are specifically designed to allow organizations to virtualize even the most resource-intensive Production workloads such as Microsoft Exchange Server and Microsoft SQL Server.

To maximize your investment in virtualization, it is essential to understand how to properly design and implement the various vSphere and complimentary products, and that's the value of authorized training delivered by virtualization specialists such as our dedicated VMware team at Global Knowledge. Additionally, the VMware Certified Professional (VCP) certification program is recognized throughout the industry as a standard for technology professionals and administrators who have demonstrated their knowledge and expertise in vSphere - the authorized training offered by Global Knowledge also forms a key part of the VCP program.

In addition to VMware there are platforms that allow virtualisation within an organisation, such as Cisco's Unified Computing System (UCS), Citrix and Microsoft's Hyper-V.

As demand for virtualisation skills increases, training and certification programs from both independent trainers and virtualisation vendors are starting to appear for virtualisation management.

Lets get Virtual ...



VMware

VMware provides virtualisation solutions from the datacenter to the desktop and the software is used by organisations of all sizes to increase the efficiency and cost-effectiveness of their IT operations. VMware customers rely on the products to help reduce costs, consolidate servers, provide affordable business continuity, optimise desktop management and software development.

Enhanced Business Continuity through Virtualisation

The disruption of IT services can be fatal to a business. VMware's virtualisation products give you the means to eliminate planned downtime, deliver high availability, and be better prepared for disaster recovery.

Desktop Virtualisation

Many organisations are turning to desktop virtualisation as their standard way of deploying desktop computing. VMware desktop virtualisation solutions enable customers to simplify management and control, increase security, enable disaster recovery and reduce costs.

Managing and Automating a Virtualized Infrastructure

The value an organization gains from virtualisation is significantly enhanced by ensuring management tools are deployed to achieve the highest levels of efficiency, resource optimisation, process management and automation.

Increased flexibility

In a non-virtualised environment, rolling out new services can take days or even weeks as often new hardware needs to be procured. In a virtualised environment setting up a new server can be done in minutes after which the new service can be rolled out.

VMware delivers a comprehensive set of management capabilities for the VMware Virtual Infrastructure.

From managing the lifecycle of virtual machines to ensuring high availability and performance to all applications and automating the disaster recovery processes, VMware management applications ensure that maximum business value and cost savings are delivered by a virtualized infrastructure.



VMware Global Education Partner of the Year

Recognizing Global Knowledge's role in helping them to drive authorised VMware education solutions further into the technology marketplace, Global Knowledge has been recognized by VMware as a winner of a VMware Partner Network Award in the Education Partner of the Year category.

For more information on VMware training, please contact your local Global Knowledge office or send an email to info@globalknowledge.net



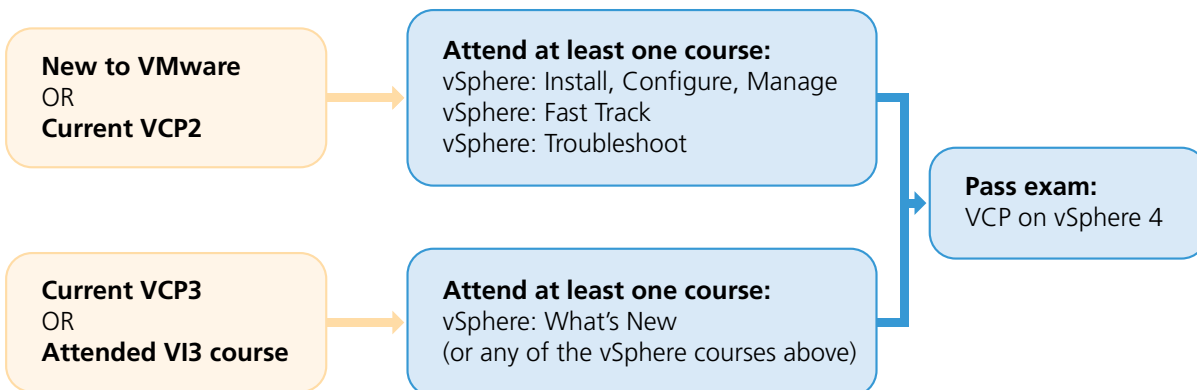
VMware Job Roles, Learning Paths and Certification

ADMINISTRATOR	VMware vSphere 4: Install, Configure & Manage				VMware Certified Professional	NEW NEW NEW NEW NEW NEW
	4 Days				VCP 4	
ADVANCED ADMINISTRATOR	VMware vSphere 4: Install, Configure & Manage	VMware vSphere 4: Managing Performance	VMware vSphere 4: Troubleshooting	VMware vSphere 4: Manage & Design for Security	VMware Certified Adv. Professional – Datacenter Administration 4	
	4 Days	3 Days	4 Days	2 Days	VCAP-DCA Exam	
IT ARCHITECT	VMware vSphere 4: Install, Configure & Manage	VMware vSphere 4: Design Workshop			VMware Certified Adv. Professional – Datacenter Design 4	
	4 Days	3 Days			VCAP-DCD Exam	
DESKTOP ADMINISTRATOR	VMware vSphere 4: Install, Configure & Manage	VMware View 4: Install, Configure & Manage	VMware vSphere 4: ThinApp Advanced			
	4 Days	3 Days	1 Day			
DESKTOP ARCHITECT	VMware vSphere 4: Install, Configure & Manage	VMware View 4: Install, Configure & Manage	VMware View 4: Design & Best Practices	VMware vSphere 4: Design Best Practices		
	4 Days	3 Days	1 Day	3 Days		

VMware Certified Professional on vSphere 4 (VCP4)

VCP is recognized as an “industry standard” for virtualization certification, and it is aimed at individuals who have one of a wide variety of job roles: systems administrators, systems engineers, virtualization consultants and architects. VMware Partners must have a number of VCPs working for them, and an ever-increasing number of end-user customers and independent contractors and consultants also hold the certification.

VMware released the latest generation of their enterprise product, vSphere 4, in May 2009. The exam that relates to vSphere 4 is the VCP4 exam, which became available from August 2009. The training courses that offer the best preparation for the VCP4 exam have now been updated for vSphere 4, and VMware have created various paths for individuals to achieve the certifications on the next generation software version.



VMware Courses

VMware Site Recovery Manager

Course Code: VMSRM **Duration:** 2 Days

Description:

This hands-on training course is aimed at experienced VMware Infrastructure 3 administrators. The course covers installation, configuration, and operation of VMware Site Recovery Manager (SRM) and testing of disaster recovery plans with SRM.

What you will learn:

- » Create a disaster recovery workflow for your virtual machines using SRM
- » Configure SRM storage replication adapters
- » Configure SRM protected and recovery sites
- » Configure SRM array managers
- » Define SRM inventory mappings
- » Create, Test and Execute SRM recovery plans

VMware View: Design

Course Code: VMVD **Duration:** 1 Day

Description:

This hands-on training course explores the foundations of designing VMware® View™ architectures.

What you will learn:

- » The recommended design process
- » The layered architecture design model and the reference framework for a View design
- » Design considerations to meet business needs
- » VMware's best practices for a View deployment

VMware View 4: Install Configure and Manage

Course Code: VMVIEW4 **Duration:** 3 Days

Description:

This hands-on training course builds your skills in the VMware View suite of products: VMware View Manager, VMware View Composer, and VMware ThinApp™.

What you will learn:

- » Install and configure View components
- » Create persistent and nonpersistent desktop pools
- » Configure virtual desktops for printing, USB redirection, and multimedia redirection
- » Configure authentication using devices such as smart cards and cryptographic authentication fobs
- » Use View Composer to deploy and manage linked clone virtual desktops
- » Package applications using ThinApp for a VMware virtual desktop infrastructure

VMware vSphere 4: What's New

Course Code: VMWN **Duration:** 2 Days

Description:

This hands-on training course explores new features in future versions of VMware® vCenter Server and ESX™/ESXi, as well as how to upgrade.

What you will learn:

- » Upgrading VMware deployments
- » Deploying distributed virtual switches to simplify datacenter-wide network management
- » Migrating virtual machines' storage while they are live with Storage vMotion
- » Growing virtual disks and VMFS volumes while they are live
- » Ensuring application availability with VMware Fault Tolerance
- » Use the new host profiles feature to keep hosts uniformly configured
- » Save disk space with thin provisioning

VMware vSphere 4: Capacity Planner (Partner Only)

Course Code: VSCP

Duration: 1 Day

Description:

The VMware Capacity Planner course trains consultants and systems engineers to use VMware proprietary tools to collect and view system, inventory, and performance data for use in consolidation, capacity planning, and performance tuning projects. Additionally, this course shows partners how to use these same tools to increase profit margins. This course specifically addresses Capacity Planner 2.7.

What you will learn:

- » Understand the general concepts of server consolidation analysis and the typical challenges involved
- » Use Capacity Planner to simplify the assessment process and provide decision support data to create a consolidation plan
- » Use Capacity Planner to model consolidation scenarios – scenarios tailored to the individual needs of specific customers
- » Conduct customer interviews designed to elicit information relevant to consolidation projects and TCO/ROI analysis

VMware vSphere 4: Design Workshop

Course Code: VSD

Duration: 3 Days

Description:

This course explores a design methodology, criteria, and approach for designing a VMware vSphere™ 4 virtual datacenter architecture consisting of VMware ESX™/ESXi 4 and VMware vCenter™ Server 4. This course, by discussing the benefits and risks of available design alternatives, provides information which supports making sound design decisions. This course also provides an opportunity to practice your design skills by working with peers on a design project

What you will learn:

- » Identify design goals, requirements, and constraints
- » Identify useful information for making design decisions
- » Recognize and analyze best practice recommendations
- » Analyze alternative design choices
- » Identify risks
- » Work in a design team on a design project

VMware vSphere 4: Exam Preparation Workshop (VCP4)

Course Code: VSEXP

Duration: 1 Day

Description:

This workshop will be an opportunity to prepare for the VMware Certified Professional on vSphere 4 (VCP4) exam.

What you will learn:

- » Practice exam questions
- » Instructor-led question and answer revision session
- » Review of key learning points from exam blueprint
- » Exam taking and study tips

VMware vSphere 4: Fast Track Program

Course Code: VSFT

Duration: 5 Days

Description:

This intensive, extended-hours (typically 7pm) training course focuses on installing, configuring, managing, and troubleshooting VMware® vSphere™. It combines the content of the VMware vSphere 4: Install, Configure, Manage course with advanced tasks and skills for configuring a highly available and scalable virtual infrastructure. Upon completing this course, you can take the examination to qualify as a VMware Certified Professional.

What you will learn:

- » Install and configure VMware ESX™/ESXi, vCenter™ Server, and the vSphere Management Assistant
- » Configure, manage, and troubleshoot ESX/ESXi networking and storage
- » Create, configure, migrate, manage, convert, and monitor virtual machines and virtual appliances
- » Scale the vSphere virtual infrastructure
- » Implement business continuity solutions
- » Manage changes to the vSphere environment

VMware vSphere 4: Install, Configure, Manage

Course Code: VSICM

Duration: 4 Days

Description:

This hands-on training course explores installation, configuration, and management of VMware® vSphere, which consists of VMware ESXi/ESX™, and VMware vCenter Server. Upon completion of this course, you can take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, and vCenter Server 4.0.

What you will learn:

- » Install and configure ESX & vCenter Server
- » Configure and manage ESX networking and storage using vCenter Server
- » Manage user access to the VMware infrastructure
- » Monitor resource usage using vCenter Server
- » Apply patches using vCenter Update Manager
- » Manage higher availability and data protection using vCenter Server

VMware vSphere 4: Manage Availability

Course Code: VSMA

Duration: 1 Day

Description:

This hands-on training course equips system administrators with the knowledge, skills, and abilities to achieve competence in building and running a highly available VMware® vSphere™ 4 virtual infrastructure.

What you will learn:

- » List the components of business continuity
- » Describe Microsoft Windows 2003 and 2008 cluster configurations
- » Configure a VMware High Availability (HA) cluster using nondefault options
- » Deploy fault-tolerant virtual machines using VMware Fault Tolerance (FT)
- » Deploy VMware vCenter™ Server Heartbeat

VMware vSphere 4: Manage and Design for Security

Course Code: VSMD5

Duration: 2 Days

Description:

This course shows you how to follow best practices for secure design, deployment, and operation of a VMware vSphere™ environment. Through lecture, discussion, and hands-on practice, you will gain the knowledge and skills necessary to meet the security and compliance goals of your organization.

What you will learn:

- » Identify vulnerabilities in the current design of a vSphere environment and recommend corrective actions
- » Harden vSphere components as described in vSphere Hardening Guide
- » Recommend configuration and change management policies, processes, and systems

VMware vSphere 4: Manage for Performance

Course Code: VSMP

Duration: 3 Days

Description:

This hands-on training course explores the management of performance in a VMware® vSphere™ environment. It provides the knowledge and skills necessary to make fundamental design decisions that enhance performance and to meet performance goals in an already-deployed vSphere installation. The course is based on ESX 4.0, ESXi 4.0, and vCenter Server 4.0.

What you will learn:

- » Explain the performance impact of using different monitor modes
- » Use vSphere tools to monitor the performance of ESX/ESXi hosts Troubleshoot performance problems relating to CPU, memory, network, and storage on an ESX/ESXi host
- » Discuss how to achieve an optimal virtual machine configuration
- » Discuss guidelines for monitoring application performance

VMware vSphere 4: Managing Scalability

Course Code: VSMS

Duration: 1 Day

Description:

This hands-on training course equips system administrators with the knowledge, skills, and abilities to achieve competence in building and running a scalable VMware® vSphere™ 4 virtual infrastructure.

What you will learn:

- » Saving disk space by thin-provisioning virtual machines
- » Using Host Profiles to keep ESX/ESXi hosts uniformly configured and manage configuration compliance
- » Configuring VMware DRS clusters with non-default options
- » Configuring VMware Distributed Power Management
- » Managing more than one vCenter Server from the same vSphere Client with VMware vCenter Linked Mode

VMware vSphere 4: Overview

Course Code: VSO

Duration: 1 Day

Description:

This hands-on training course introduces the most compelling features of VMware® vSphere™ 4. This course demonstrates vSphere features that help to reduce your IT costs while improving efficiency, availability, flexibility, and manageability.

What you will learn:

- » Using VMware vCenter™ Server to deploy virtual machines
- » Performing live migrations of virtual machines
- » Configuring VMware ESX™ clusters to automatically balance virtual machine workloads
- » Hierarchically allocating CPU and memory resources to specific business functions
- » Using vCenter Server alarms to proactively monitor the virtual datacenter
- » Ensuring high availability of applications

VMware vSphere 4: Automation with VMware PowerCLI

Course Code: VSA

Duration: 2 Days

Description:

This hands-on training course introduces using VMware vSphere™ PowerCLI to automate VMware vSphere 4. This course demonstrates ways to automate tasks that will reduce your IT costs while improving efficiency, availability, flexibility, and manageability.

What you will learn:

- » Automate VMware® ESX™ configuration
- » Automate the provisioning of virtual machines
- » Automate changes to virtual machine configuration
- » Automate cluster operations
- » Automate reporting

VMware vSphere 4: Skills for Operators

Course Code: VSSO

Duration: 2 Days

Description:

This hands-on training course explores configuration and management of VMware vSphere™ virtual machines. Upon completion of this course, you should have the skills necessary to work effectively with VMware® virtual machines. The course is based on VMware ESX™ 4.0 and VMware vCenter™ Server 4.0.

What you will learn:

- » Create, deploy, and manage virtual machines
- » Use vCenter Server to monitor virtual machine resource usage
- » Use VMware vCenter Update Manager to apply patches to virtual machines
- » Use VMware vMotion™ and Storage vMotion to migrate virtual machines
- » Troubleshoot problems with virtual machine configuration
- » Lab exercises are interspersed throughout the course

VMware vSphere 4: Troubleshooting

Course Code: VST

Duration: 4 Days

Description:

This lab-intensive course focuses on providing system administrators with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere™ virtual infrastructure. In this course, you will spend most of the time diagnosing and rectifying configuration problems created on VMware® ESX™/ESXi hosts and VMware vCenter™ Server systems.

What you will learn:

- » Use the VMware vSphere Client and service console commands to configure or diagnose and rectify problems on ESX
- » Use the vSphere Client and the VMware vSphere Management Assistant (vMA) appliance to configure or diagnose and rectify problems
- » Use ESXi technical support mode to diagnose and rectify problems on ESXi
- » Create and use a network sniffer to capture and display virtual switch network traffic
- » Use the vSphere Client and CLI tools to troubleshoot VMotion™, Storage VMotion, HA, DRS and VM power-on problems

Cisco

Cisco is delivering on the promise of virtualization through Unified Computing - an architecture that bridges the silos in the data center into one unified architecture using industry standard technologies.

Key to Cisco's approach is the Cisco Unified Computing System which unites compute, network, storage access, and virtualization resources in a single energy efficient system that can reduce IT infrastructure costs and complexity, help extend capital assets and improve business agility well into the future.

Cisco's Unified Computing System and data center portfolio are critical step in the company's Data Center 3.0 strategy. To help customers accelerate the transition to the Unified Computing architecture.

The Cisco Unified Computing System unleashes the full potential of virtualization, by enhancing the scalability, performance and operational control of virtual environments. Cisco security, policy enforcement, and diagnostics features are now extended into dynamic virtualized environments to better support changing business and IT requirements.

To back up Cisco's advances into virtualization, Global Knowledge has a wide portfolio of courses to ensure you and your organization get the maximum benefits from the Cisco product set available.



Global Knowledge.

Cisco Learning Partner of the Year

*Emerging Markets, US & Canada, Asia Pacific



Cisco Data Center Specialisations

Cisco Data Center Unified Computing

ROLE	EXAM	RECOMMENDED TRAINING	FORMAT
Design Specialist ¹	642-357 DCSNS 642-971 DCNID 642-982 DCUCD OR 642-978 DCUCD (qualifier exam) 642-982 DCUCD	DCSNS - Data Center Storage Networking Design Specialist DCNID - Data Center Networking Infrastructure Design Specialist DCUCD - Cisco Data Center Unified Computing Design OR DCUCD - Cisco Data Center Unified Computing Design	ILT, 5 days ILT, 5 days ILT, 5 days ILT, 5 days
Support Specialist ²	642-979 DCUCI (qualifier exam) 642-983 DCUCI OR 642-359 ICSNS 642-973 DCNIS-1 642-974 DCNIS-2 642-983 DCUCI	DCUCI - Cisco Data Center Unified Computing Implementation OR ICSNS - Implementing Cisco Storage Networking Solutions DCNIS-1 - Implementing Cisco Data Center Network Infrastructure 1 DCNIS-2 - Implementing Cisco Data Center Network Infrastructure 2 DCUCI - Cisco Data Center Unified Computing Implementation	ILT, 5 days ILT, 5 days ILT, 5 days ILT, 5 days ILT, 5 days

1) CCDA and VCDX (VMware Certified Design Expert) certification as prerequisite

2) VCP3 or VCP4 (VMware Certified Professional) certification as prerequisite

Cisco Data Center Networking Infrastructure

ROLE	EXAM	RECOMMENDED TRAINING	FORMAT
Design Specialist	642-971 DCNID	DCNID - Data Center Networking Infrastructure Design Specialist CCDA or any CCIE Certification can act as a pre-requisite	ILT, 5 days
Support Specialist	642-973 DCNIS-1 642-974 DCNIS-2	DCNI-1 - Data Center Network Infrastructure - 1 DCNI-2 - Data Center Network Infrastructure - 2	ILT, 5 days ILT, 4 days
Sales Specialist	646-204 CSE 646-985 DCNSS	CSE - Cisco Sales Expert DCNS - Data Center Networking Solution Sales	ILT, 2 days WBT

Cisco Data Center Application Services

ROLE	EXAM	RECOMMENDED TRAINING	FORMAT
Design Specialist	642-972 DCASD	DCASD - Designing Cisco Data Center Application Services CCDA or any CCIE Certification can act as a pre-requisite	ILT, 5 days
Support Specialist	642-975 DCASI	DCASI - Implementing Cisco Data Center Application Services CCDA or any CCIE Certification can act as a pre-requisite	ILT, 5 days

Cisco Data Center Storage Networking

ROLE	EXAM	RECOMMENDED TRAINING	FORMAT
Design Specialist	642-357 DCSNS	CCDA certification DCSNS - Designing Cisco Storage Networking Solutions	ILT, 5 days
Support Specialist	642-359 ICSNS	ICSNS - Implementing Cisco Storage Networking Solutions IASNS - Implementing Advanced Cisco Storage Networking Solutions	ILT, 5 days ILT, 5 days
Sales Specialist	646-204 CSE 646-985 DCNSS	CSE - Cisco Sales Expert DCNS - Data Center Networking Solution Sales	ILT, 2 days WBT

Cisco Courses

Cisco MDS Storage Networking Fundamentals

Course Code: CMSNF **Duration:** 2 Days

Description:

This 2-day training course, targeted at pre-sales engineers, is focused on developing a good understanding around the architecture, features and value of Cisco MDS 9000 Family products. At the end of this course they will understand the positioning of each product as well as competitive differentiation. They will also be able to recommend Cisco Storage Networking products in various designs.

What you will learn:

- » Identify and configure the features of the Cisco MDS 9000 storage networking platform that enable reliable, scalable SAN fabrics.
- » Describe the MDS 9000 hardware architecture including the common features, the system components and the key differentiators.

Designing Cisco Data Center Application Services

Course Code: DCASD **Duration:** 5 Days

Description:

This course is focused on the how to design Cisco Data Center Application Services by deploying the Application Control Engine (ACE) service module and the ACE appliance family technologies. All of the key features of the ACE solution are incorporated as well as the benefits and opportunities from the implementation of GSS, GSLB and the WAAS Wan optimisation solution.

What you will learn:

- » To be able to describe IP application delivery with the ACE module
- » To be able to understand and describe the configuration tasks necessary to successfully deploy an ACE module
- » To be able to describe the structure and function of the Modular Policy CLI statements used to configure ACE features
- » To understand the capabilities and configuration of the ACE features used to provide load balancing of IP-based applications
- » To be able to identify the Layer 7 processing options used to provide advanced application networking
- » To understand the high-availability features of the ACE module which are used to provide reliable application networking services.

Implementing Cisco Data Center Application Services

Course Code: DCASI **Duration:** 5 Days

Description:

This is an instructor-led, lecture / lab course that teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Appliance, Service Module v2.0 and GSS. This course covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer inspection and fixups.

What you will learn:

- » To be able to describe IP application delivery with the ACE module.
- » To be able to create new contexts and resources classes, class maps and sever farms.
- » To be able to configure an ACE context to load balance traffic flows.
- » To be able to describe the ACE features that provide IP application security.
- » To be able to implement SSL termination and configure NAT.
- » To be able to describe the high availability features of the ACE module.

Data Center Network Infrastructure -1

Course Code: DCNI-1 **Duration:** 5 Days

Description:

This course is primarily focused on the Cisco Catalyst 6500 and Catalyst 4900 series of switches. This is predominantly an implementation course, however delegates will still gain an understanding of how data centers have evolved and what the latest trends are within this technology area, enabling them to correctly position Cisco platforms for the access, aggregation and core layers of the data center. The overall goal of this course is to enable customers to build scalable, reliable, and intelligent Data Center networks using Cisco Catalyst 6500 and Catalyst 4900 switches

What you will learn:

- » To fully understand and deploy the Cisco Data Center solution, incorporating the Cisco Catalyst 6500 and 4900 Series Switches, as well as the options available in the Cisco Blade Switch family.
- » To identify, implement traffic flows, including FWSM routed and transparent modes, supervisor-based packet acceleration, and FWSM-PISA integration.
- » To have an understanding of NAM hardware, and be able to implement initial configuration, and use Cisco NAM to monitor network traffic.
- » To describe and deploy high-availability features in the data center.

Data Center Network Infrastructure - 2

Course Code: DCNI-2

Duration: 5 Days

Description:

The DCNI-2 course is a hands-on training that teaches you how to implement an enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus 7000 and 5000 platforms. The first 3 days will focus on the Nexus 7000, with an overview of the Nexus 5000 and FCoE on Day 4. This course provides a technical overview of the Nexus platform architecture, deployment, and operations, including Virtual Device Contexts, Layer 2 and Layer 3 features, QoS, and security. You will explore the features of NX-OS and the Nexus platform by performing hands-on labs using a Nexus 7000 simulator.

What you will learn:

- » Describe the key features of the Nexus 7010 chassis, power supplies and fan-cooling system
- » Describe Supervisor Engine and Line Card Module features
- » Describe the Connectivity Management Processor
- » Explain NX-OS Process Recovery and Supervisor Redundancy
- » Explain how the Nexus 5000 functions within SAN and LAN environments
- » Describe the Fibre Channel over Ethernet (FCoE) protocol

Designing Cisco Data Center Network Infrastructures

Course Code: DCNID

Duration: 5 Days

Description:

This course enables students to create a Data Center network design that optimizes availability, scalability, performance, and security, using the Cisco Nexus 7010, Cisco Nexus 5000, the Catalyst 6500 and 4948, the Catalyst Blade Modules - FWSM, IDSM/IPSM, NAM, ACESM and the ACE Appliance thus enabling customers to make a more effective use of the data center network devices.

What you will learn:

- » Describe the Data Center architecture for non-stop operation
- » Describe the hardware and software architecture of the Cisco Nexus 7010 Switch
- » Describe the Nexus 5000 hardware and software features and position it in the converged Data Center network
- » Explain the Data Center network design strategy at component, network, and architecture levels
- » Explain Data Center architecture strategy
- » Describe Data Center topologies and the services used

Cisco Data Center Unified Computing Design

Course Code: DCUCD

Duration: 4 Days

Description:

The Data Center Unified Computing Design (DCUCD) course provides you with the knowledge to design scalable, reliable and intelligent Data Center Unified Computing solutions incorporating Cisco Unified Computing System (UCS), Cisco Nexus family switches, Catalyst 6500 in Virtual Switching System (VSS), MDS family SAN switches with NX-OS, Data Center NetworkManager (DCNM) and MDS Fabric Manager configuration and management applications, VMware server virtualisation products and Linux and Microsoft Windows operating system. Hands-on labs will reinforce these design concepts and enable you to become familiar with the UCS environment.

What you will learn:

- » Understand Cisco Unified Computing solutions, identify server architecture.
- » Identify and understand Cisco UCS components, management, system connectivity, high availability
- » Understand and design Cisco Unified Computing network.
- » Identify Cisco UCS deployments and describe solution advantages.
- » Understand server virtualization and server virtualization networking.
- » Evaluate Cisco Unified Computing solution, understand design success criteria, and determine ROI.

Cisco Data Center Unified Computing Implementation

Course Code: DCUCI

Duration: 5 Days

Description:

This five-day hands-on course focuses on the deployment and operation of a Cisco Unified Computing System (Cisco UCS). Delegates will learn how to configure and manage Cisco UCS servers with consolidated I/O networking for LAN and SAN connectivity, how to virtualize server properties to enable simple and rapid mobility of server operating system images between physical servers. Hands-on labs enable delegates to gain experience in configuring fault tolerance, implementing a multi-tenant management model, backing up and restoring system configurations, and how to make the most of the monitoring and troubleshooting tools built into Cisco UCS Manager.

What you will learn:

- » Describe the Cisco UCS system architecture,
- » Perform the key operational tasks required to deploy a Cisco Unified Computing System
- » Explain the connectivity requirements for the Cisco UCS platform
- » Configure Physical, logical Unified Fabric Connectivity Define, implement the Basic Opt-In and Logical Server Management Models
- » Explain how the Cisco Nexus 1000V switch fits in to a VMware server virtualization environment

Install, Configure and Manage vSphere on Nexus 1000v Data Center Networks

Course Code: ICMNDC

Duration: 5 Days

Description:

This highly focused, 5-day course provides a detailed understanding of the emerging features and protocols supported by the Nexus 1000V product family and installation configuration, and management of VMware® vSphere™. The Cisco Nexus™ 1000V Series Switches are virtual machine access switches that are an intelligent software switch implementation for VMware vSphere environments. Operating inside the VMware ESX hypervisor, the Cisco Nexus 1000V Series supports Cisco VN-Link server virtualization technology to provide:

- » Policy-based virtual machine (VM) connectivity
- » Mobile VM security and network policy
- » Non-disruptive operational model for your server virtualization, and networking teams

What you will learn:

Upon completion of this course, the student will understand product placement for the Nexus 1000V, in addition to its close relationship to VMware devices and services. Practical lab exercises augment and reinforce the courseware to provide a unified curriculum.

Implementing & Configuring the Cisco Nexus 1000v

Course Code: ICNX1V

Duration: 3 Days

Description:

The Cisco Nexus 1000V is a virtual switch that resides within the VMware ESX Server instance and provides operations and management consistency with existing Cisco Nexus and Catalyst switches. The Nexus 1000V leverages the VN-Link specification, together with VMware's vNetwork Distributed Switch framework, to offer tightly integrated network services as part of a comprehensive Data Center server virtualization strategy. This 3-day course provides you with an in-depth look at the design and configuration process for the Cisco Nexus 1000V, including hands-on labs in which you will configure a VMware infrastructure, configure the Nexus 1000V and demonstrate policy mobility during virtual machine migration.

What you will learn:

- » Describe the Nexus 1000V switch and its role in a virtual server network environment
- » Describe the Nexus 5000, 2000, and 1000V access layer architecture
- » Model and configure virtual access layer topologies
- » Install and configure the Nexus 1000V
- » Configure VN-Link on the Nexus 5000
- » Monitor and troubleshoot Nexus 1000V environments

Implementing & Configuring Cisco Nexus 5000

Course Code: ICNX5

Duration: 3 Days

Description:

In this hands-on course, you will learn how to design, implement, and manage a Fibre Channel over Ethernet (FCoE) infrastructure using the Cisco Nexus 5000 platform. Topics such as FCoE design guidelines, configuring FCoE on servers, and configuring FCoE on switches in switch mode and NPV mode are incorporated. You will also learn about the architecture of the Nexus 5000 FCoE switches, and how this architecture affects traffic flow in an FCoE network.

What you will learn:

- » Identify the benefits provided by Nexus 5000 switches in common user scenarios
- » Explain how the Nexus 5000 operates within SAN and LAN environments
- » Explain the HPC applications for the Nexus 5000 switch
- » Describe how FCoE operates within SAN and LAN environments
- » Describe the core features of the NX-OS platform
- » Configure the Nexus 5000 in switch mode and NPV mode
- » Implement high-availability configurations

Implementing & Configuring Cisco Nexus 5000 & 7000

Course Code: ICNX5-7

Duration: 5 Days

Description:

In this course, you will learn how to implement an enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus 5000 and Nexus 7000 platforms. This course provides a technical overview of the Nexus platform architecture, design guidelines, deployment and operations, including Fibre Channel over Ethernet, Virtual Device Contexts, Layer 2 and Layer 3 features, QoS, and security. The features of NX-OS and the Nexus platform are explored using hands-on labs which incorporate actual Nexus 7000 Switches as opposed to using NX-OS simulators.

What you will learn:

- » Describe the features of the Nexus 7010 chassis, Supervisor Engine, and line cards
- » Configure switch management features like Call Home, AAA, and RBAC
- » Configure Virtual Device Contexts
- » Configure Layer 2 and Layer 3 services
- » Configure Process and Supervisor Recovery
- » Describe how FCoE operates within SAN and LAN environments
- » Configure the Nexus 5000 in switch mode and NPV mode

Implementing & Configuring Cisco Nexus 7000

Course Code: ICNX7

Duration: 3 Days

Description:

In this course, you will learn how to implement an enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus 7000 platform. This course provides a technical overview of the Nexus platform architecture, deployment, and operations, including Virtual Device Contexts, Layer 2 and Layer 3 features, QoS, and security. The features of NX-OS and the Nexus platform are explored using hands-on labs which incorporate actual Nexus 7000 Switches as opposed to using NX-OS simulators. This course is delivered as part of the Global Knowledge and Firefly strategic alliance, providing delegates with the latest in Data Center technology.

What you will learn:

- » Describe the features of the Nexus 7010 chassis, Supervisor Engine, and line cards
- » Configure switch management features like Call Home, logging, AAA, and RBAC
- » Configure Virtual Device Contexts
- » Configure Layer 2 and Layer 3 services
- » Configure NX-OS Process Recovery and Supervisor Redundancy
- » Configure access and admission control

Implementing Cisco Storage Networking Solutions

Course Code: ICSNS

Duration: 5 Days

Description:

This instructor led hands on course provides delegates with the fundamental skills required to implement and troubleshoot Cisco Storage Networks. Course topics include installing and bringing up the switch, configuring Virtual SANs (VSANs), domains, interfaces, and zones. Implementing Portchannels, configuring management security, and basic troubleshooting. You will also learn how to highly available FCIP tunnels and tune the performance of your FCIP links. This course combines MDSCT & CMSE into a single course updated for SAN-O 2.1, 3.0.

What you will learn:

- » Identify the components, services, and features of the MDS 9000
- » Explain how to implement the logical topology specified by a SAN design
- » Identify MDS 9000 diagnostic tools in order to diagnose SAN problems and common configuration errors
- » Describe how to safely install the switch hardware and perform the initial software configuration process
- » Describe the traffic management features associated with Intelligent Network Services for the MDS 9000
- » Describe how to use FCIP to implement appropriate solutions for SAN extension

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Microsoft

Microsoft provides a complete suite of technologies to enable an integrated, end-to-end, virtualized infrastructure. Using products that span the desktop to the data center, you can bring capacities online in real-time, as needed; streamline and provision applications, services and data on-demand; accelerate backup and recovery, and enhance availability so that your users are protected against system failure and service interruptions.

Microsoft's virtualization toolset for the data center includes Microsoft Virtual Server and Microsoft Windows Server 2008 Hyper-V, which consolidates server roles as separate virtual machines (VMs) on a single physical machine.

On the desktop side, Microsoft offers Terminal Services, we offer Microsoft Terminal Services, which virtualizes the presentation of entire desktops or specific applications; Microsoft Application Virtualization (App-V), which transforms applications into centrally-managed virtual services that are never installed and don't conflict with other applications; Microsoft VDI, which allows customers to centralize the storage, execution, and management of a Windows desktop in the data center; and Microsoft Enterprise Desktop Virtualization (MED-V, formerly Kidaro) which, with Virtual PC, enables client-hosted desktop virtualization, where you can deploy and centrally manage VMs on Windows desktops while providing a seamless user experience.

To simplify management of your entire infrastructure, Microsoft offers System Center, which lets you manage both physical and virtual assets for clients and servers, including multiple hypervisors, all with the same platform.

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Microsoft Courses

Deploying and Managing the Microsoft Desktop Optimization Pack including APP-V

Course Code: M7197

Duration: 4 Days

Description:

This instructor-led course will enable attendees to gain an understanding of the tools available in Microsoft Desktop Optimization Pack (MDOP) to improve their Change Management process and reduce support across their or their customer's environment.

What you will learn:

After completing this course, students will walk away with a deep understanding of the Application Virtualization environment and be able to install, configure, administer, and troubleshoot the components. Students will also be able to install and utilize the MDOP components and understand their position in the desktop management process.

Implementing and Managing Windows Server 2008 Hyper-V

Course Code: M6422

Duration: 3 Days

Description:

This three-day instructor-led course teaches students how to implement and manage Windows Server 2008 Hyper-V. It also teaches students how to manage Hyper-V with Solution Center Virtual Machine Manager (VMM) and with PowerShell.

What you will learn:

- » Install and configure Windows Server 2008 Hyper-V.
- » Create and manage Virtual Machines on the Hyper-V server.
- » Understand how to configure the Hyper-V server to ensure high availability.
- » Understand how System Center Virtual Machine Manager (VMM) can be used to manage Hyper-V servers throughout the enterprise.
- » Use PowerShell to manage the Hyper-V server and the virtual machines hosted on the Hyper-V server.
- » Implement a disaster recovery plan for Virtual Machines on Hyper-V.

Deploying and Managing System Center Virtual Machine Manager - SCVMM

Course Code: M6331

Duration: 3 Days

Description:

This three-day instructor-led course teaches students how to implement a Microsoft System Center Virtual Machine Manager V2 solution in an organization. The course also discusses how to install, configure, and deploy VMM.

What you will learn:

- » Add VM hosts to VMM; install the VMM agent; add VMWare servers to VMM; and create filters.
- » Deploy VMs using multiple methods; and use Intelligent Placement to deploy VMs.
- » Identify considerations for SAN VM migrations; perform a Quick Migration; and use Intelligent Placement to move a VM.
- » Convert a physical computer and other VM formats to Hyper-V VMs
- » Identify scenarios where VMM Checkpoints may be used to meet operational requirements and create a VM Checkpoint.
- » Describe considerations for patch management using SCCM and deploy patches using WSUS.
- » Use SCOM to select potential virtualization targets based on workload and performance characteristics.

Implementing and Managing Microsoft® Server Virtualization

Course Code: M10215

Duration: 5 Days

Description:

This course will provide you with the knowledge and skills to deploy and manage a server virtualization environment using Microsoft technologies. The course provides details on how to deploy and manage Hyper-V and Remote Desktop Services on Windows Server 2008 R2. The course also provides details on how to manage a server virtualization environment by using System Center products.

What you will learn:

- » Describe how virtualization as it relates to server, desktop, and application environments.
- » Describe how to install the Hyper-V Server Role and configure host and virtual network settings.
- » Describe how to plan for and deploy virtual hard disk(s) and virtual machines.
- » Describe VMM 2008 R2 and shows how this product integrates with Hyper-V environment, and how to manage hosts and host groups in VMM.
- » Describe how to create and deploy virtual machines, how to perform a P2V and V2V conversions, virtual machine migrations, and cloning.

Configuring and Troubleshooting Windows Server 2008 Terminal Services

Course Code: M6428

Duration: 2 Days

Description:

This course provides students with the knowledge and skills to configure, manage, monitor, and troubleshoot a Terminal Services (TS) environment. The course focuses on configuring of TS core functionality, licensing, Gateway, and Web Access. Its the second course in Windows Application Platform Services Technology Specialists Who Use Windows Server 2008 curriculum and introducing students to Windows 2008 Terminal Services.

What you will learn:

- » Install and configure the TS role and configure TS settings.
- » Identify the appropriate licensing scope and configure forest, domain, and workgroup licensing.
- » Manage the licensing lifecycle.
- » Configure TS connection properties using TS console and Group Policy.
- » Configure TS Web Access to make TS RemoteApp programs available through a Web site.
- » Configure a TS session broker for a load-balanced TS farm.
- » Configure TS Gateway properties and monitor active connections.
- » Identify monitoring methods for TS services role.
- » Configure resource allocation policies using WSRM based on the environment.

Planning Deploying and Managing System Center Configuration Manager - SCCM

Course Code: M6451

Duration: 5 Days

Description:

This instructor-led course provides students with the knowledge and skills to plan, deploy, and manage Configuration Manager 2007. The course focuses on planning and deploying sites and clients, configuring software distribution, deploying operating systems, and managing software updates. It also focuses on remote tools and managing mobile devices.

What you will learn:

After completing this course, students will be able to plan, deploy, and manage Configuration Manager 2007 for their enterprise environment



Global Knowledge

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Citrix

Citrix provides application virtualization that offers a comprehensive end-to-end infrastructure for application delivery that leverages server, application and desktop virtualization to make the entire IT infrastructure far more flexible and dynamic.

With over 25 years of industry experience behind them Citrix were providing virtualisation solutions even before it was called 'virtualisation'. As the original developers of the multi-user variants of Microsoft's Windows operating systems they were able to provide users with a unique experience based upon, in essence, a 'virtual workstation' and a virtualised user interface. That technology has grown and is now widely adopted with Citrix being at the forefront of providing virtualised solutions from the desktop to the datacenter through XenDesktop to XenServer; virtualised Application Delivery through XenApp; and virtualised Server Deployment through Citrix Provisioning Server direct to Virtual or Baremetal Servers. You can now do virtually anything you want - the choice is yours.

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Implement on-demand applications, online and offline and ensure a high definition user experience	✓	✓		
Plan, integrate and execute a robust virtualization infrastructure that scales to meet the most demanding enterprise requirements	✓	✓	✓	
Analyze and design comprehensive end-to-end virtualized environments based on Citrix best practices and Citrix Consulting methodologies	✓	✓	✓	✓

For more information on Citrix Training available from Global Knowledge please visit: www.globalknowledge.net

Citrix Courses

Implementing Citrix XenDesktop 3 and 4

Course Code: CXD200-11

Duration: 2 Days

Description:

Students will learn to install, configure and manage Citrix XenDesktop 3. By completing the exercises available in a hosted online lab environment, you will obtain hands-on experience working with Citrix XenDesktop. Students will install and configure key desktop delivery components, including the Desktop Delivery Controller, Virtual Desktop Agent, Desktop Receiver and XenDesktop Setup Wizard. Students will also configure XenDesktop policy management settings and connect to a XenDesktop environment from a variety of endpoint devices. The Citrix XenDesktop 4 Updates offers students an opportunity to identify the new features, enhancements and system requirements for XenDesktop 4. Students will learn how XenApp functions with XenDesktop 4 and complete an exercise to upgrade a version of XenDesktop 3 to XenDesktop 4.

What you will learn:

- » Explain features, benefits, components of Citrix XenDesktop 3 and 4
- » Install the Desktop Delivery Controller
- » Prepare a virtual desktop for delivery to an endpoint device
- » Create, manage desktop groups using the Access Management Console
- » Configure XenDesktop policy management settings
- » Upgrade a XenDesktop 3 environment to a XenDesktop 4 environment

Implementing the Citrix Desktop Infrastructure

Course Code: CMB-200-21

Duration: 5 Days

Description:

This course provides learners with the skills necessary to install, configure, manage and administer Citrix XenServer 5, Citrix Provisioning Server 5 and Citrix XenDesktop 3 and 4 Enterprise Edition. By completing the exercises in this course, students will obtain hands-on experience working with these Citrix products.

What you will learn:

- » All about Citrix XenServer
- » All about Citrix Provisioning Server
- » All about Citrix XenDesktop

Basic Administration for Citrix NetScaler 9.0

Course Code: CNS200-11

Duration: 5 Days

Description:

The course covers the initial configuration and administration of Citrix NetScaler 9.0. Learners gain an understanding of NetScaler features such as load balancing, SSL offload, classic and advanced expressions, rate limiting and AppExpert templates. Interactive instructor-led discussion and hands-on labs and exercises guide learners through administrator tasks preparing them to manage Citrix NetScaler 9.0 deployments.

What you will learn:

- » Identify deployment considerations and network placement options
- » Identify NetScaler-owned IP addresses
- » Configure VLANs, RNAT, ACLs, HA and load balancing
- » Configure SSL offload
- » Perform monitoring, auditing and logging
- » Configure global server load balancing (GSLB)

Advanced Administration for Citrix NetScaler 9.0 Platinum Edition

Course Code: CNS-300-21

Duration: 5 Days

Description:

This course provides the foundation to manage, configure and monitor advanced features and components of Citrix NetScaler 9.0 Platinum Edition. It guides learners through advanced administration tasks such as troubleshooting, configuring application security with the Citrix Application Firewall™ feature, using the NetScaler for high traffic, configuring Authentication Authorization and Accounting for system management, and configuring Advanced Policies using service callouts.

What you will learn:

- » Identify common web attacks and vulnerabilities
- » Configure Citrix Application Firewall™ 9.0 to protect web applications
- » Troubleshoot Citrix Application Firewall 9.0
- » Install, configure Citrix EdgeSight for NetScaler to monitor web application performance
- » Install, configure, use Citrix Command Center to manage NetScaler devices
- » Configure and use advanced features including NetScaler Web Logging, HTTP Callout, and AAA authentication for web applications

Implementing the Citrix Xen App 5.0 for Window Server 2008

Course Code: CXA-201- 21

Duration: 5 Days

Description:

Implementing Citrix XenApp 5.0 for Windows Server 2008 provides the foundation necessary to effectively deploy and administer Citrix XenApp and its components, including Web Interface, Application Streaming, Load Manager, Installation Manager, and Secure Gateway. Learners will receive hands-on training for installing Citrix XenApp and the associated plug-ins, and for using the various administrative consoles to configure published resources, policies, individual server and server farm settings, load evaluators, printers, streaming applications and much more.

What you will learn:

- » Create and customize Web Interface sites
- » Publish applications, server desktops and content
- » Configure XenApp Web and XenApp Services sites
- » Configure, apply and prioritize policies in a XenApp environment
- » Create and assign load evaluators
- » Install and distribute applications, service packs and hotfixes using Installation Manager

Implementing Citrix XenApp 5.0 for Windows Server 2008 Skills Update

Course Code: CXA-202-11

Duration: 3 Days

Description:

This course provides the foundation necessary to effectively deploy and administer Citrix XenApp 5.0 and its components, including Web Interface, application streaming and Secure Gateway. Learners will receive hands-on training for installing XenApp and plug-ins and for using the various administrative consoles to configure policies, individual server and server farm settings, isolation environments, streaming applications and much more.

What you will learn:

- » Identify the new features since Presentation Server 4.0
- » Install XenApp 5.0 in a Windows Server 2008 environment
- » Configure ICA connection and session settings
- » Create a configuration logging database
- » Configure application streaming for XenApp
- » Install and configure Web Interface

Advanced Administration for Citrix XenApp 5.0 for Windows Server 2008

Course Code: CXA-300-11

Duration: 5 Days

Description:

This instructor-led training course provides interactive presentations, discussion and practical application through hands-on labs and group activities. This course provides learners with the skills necessary to monitor, maintain and troubleshoot network environments running XenApp for Windows Server 2008 software. Learners are introduced to the tools used to monitor the XenApp farm, record farm activity and generate reports. In addition, learners take away the skills needed to maintain data and server integrity and to scale, optimize and troubleshoot the XenApp farm.

What you will learn:

- » Configure metrics, alarms and Health Monitoring and Recovery tests
- » Monitor and troubleshoot connectivity to the data store
- » Monitor and troubleshoot the Citrix IMA Service and the ICA communication channel
- » Troubleshoot session initialization, client settings and Application Streaming sessions
- » Monitor and troubleshoot published and streamed applications
- » Determine how Citrix and Active Directory policies are applied and troubleshoot unexpected policy results

Citrix XenApp (Presentation Server 4.5): Administration

Course Code: CTX1259

Duration: 5 Days

Description:

This instructor-led course provides classroom lecture topics and the practical application of Citrix Presentation Server 4.5 through demonstrations, practices, and hands-on exercises.

What you will learn:

- » Configure and manage policies for Presentation Server
- » Configure and manage server and server farm settings
- » Configure load evaluators and monitor load using Load Manager
- » Deploy applications into an isolation environment
- » Install and configure Web Interface
- » Configure streaming profiles, install the Streaming Client and configure Presentation Server to stream applications

Implementing Citrix Access Gateway 9.0 Enterprise Edition Feature

Course Code: CAG-200-11

Duration: 2 Days

Description:

This course covers information administrators and other IT professionals need to successfully deploy and manage Access Gateway 9.0 Enterprise Edition and the Access Gateway Plug-ins. Designed to provide real-world experience, hands-on labs allow learners to configure an Access Gateway server and then connect to the server using the Configuration Utility.

What you will learn:

- » Perform the initial configuration of the Access Gateway server.
- » Install Access Gateway Plug-ins for Windows, ActiveX and Java.
- » Configure VPN virtual and create policies to customize VPN behavior.
- » Customize client experience and login pages.
- » Configure Access Gateway to integrate with XenApp and WANScaler.
- » Create and configure policies and profiles.

Implementing Citrix XenServer Enterprise Edition 5.0

Course Code: CXS-200-11

Duration: 2 Days

Description:

This course prepares learners to deploy and manage XenServer Enterprise Edition 5.0 and XenCenter. Through hands-on labs, learners will gain experience in installing and configuring a virtualization server and connecting to the server with XenCenter; creating virtual machines and managing virtual machine life-cycle operations; and creating a XenServer resource pool and connecting to remote storage. In addition, learners will explore advanced XenServer capabilities such as XenMotion and automatic virtual machine placement.

What you will learn:

- » Install XenServer Enterprise Edition 5.0 and configure CPU, network and storage resources
- » Create virtual machines and templates
- » Manage virtual machine resources and life cycle operations
- » Configure local and remote storage
- » Configure resource pools and move virtual machines from one server to another
- » Identify the requirements for high availability and disaster recovery



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EMC Courses

CLARiiON Host Integration & Management with Snapview

Course Code: CLRNSP

Duration: 4 Days

Description:

The CLARiiON Host Integration & Management course provides a thorough exposure to the CLARiiON CX4 series platform. Focus areas include CLARiiON integration with Windows and Linux for both Fibre Channel and iSCSI. Other topics include Access Logix, Storage Provisioning and Management, Advanced Storage Pool and LUN concepts, Alerts and Event Monitoring, Navisphere Analyzer, and Navisphere Quality of Service Manager. The SnapView Configuration Management course focus areas include the use of local replicas in business environments, basic SnapView operating principles, and the differences between Snapshots and Clones. Other topics include Clone and Snapshot operations, the Clone Private LUNs, Reserved LUN Pool, and consistency operations.

What you will learn:

- » Revise and reinforce concepts related to CLARiiON features
- » Use EMC Navisphere Manager and other components of the EMC Navisphere suite in a practical environment
- » Explain how SnapView makes copies of LUNs
- » Configure the SnapView Reserved LUN Pool and Configure Snapshots
- » Explain how SnapView makes Clones of LUNs

CLARiiON Remote Application Workshop

Course Code: CLRRET

Duration: 3 Days

Description:

This expert level workshop focuses on the deployment of CLARiiON Remote Replication Software in a FLARE 28 CLARiiON environment. The skills taught here are useful for environments requiring data migration and/or disaster recovery solutions. Extensive hands-on labs are provided for MirrorView/S, MirrorView/A, SAN Copy, Incremental SAN Copy and FC/IP implementations.

What you will learn:

- » Configure SAN Copy and Incremental SAN Copy for CLARiiON to CLARiiON data transfer
- » Manage and monitor SAN Copy sessions
- » Configure, manage and monitor MirrorView/A and MirrorView/S for CLARiiON to CLARiiON data transfer
- » Configure and manage MirrorView Consistency Groups
- » Configure a Connectrix MP-1620M switch to support remote data replication
- » Configure and test FCIP & iFCP connectivity

CLARiiON Performance Workshop

Course Code: CPERET

Duration: 3 Days

Description:

This Expert level course provides a thorough exposure to performance on the CLARiiON CX4 series platform with FLARE Release 28.5 and Navisphere Version 6.28. Focus areas include the use of Navisphere Analyzer, Navisphere Manager and Navisphere CLI to gather performance statistics from the CLARiiON, and the analysis of those performance statistics. Other topics include gathering performance statistics from common host platforms, and the use of those statistics in performance analysis. The performance implications of using CLARiiON Replication Software (SnapView, MirrorView and SAN Copy) are covered in detail. The course is comprised of in-depth discussions and extensive hands on lab exercises.

What you will learn:

- » Use CLARiiON performance measuring tools
- » Analyze CLARiiON performance issues
- » Configure a CLARiiON for good performance
- » Determine the impact of using CLARiiON Replication Software

NAS Operations and Management with Celerra

Course Code: NSCA

Duration: 5 Days

Description:

This course focuses on configuration and administrative operations of EMC Celerra and its most commonly used features using Celerra Manager. Management tasks (file system creation, export, permissions, security, and availability) for Celerra platforms in a Windows, UNIX environments are covered. This currently support Celerra version 5.6.

What you will learn:

- » Implement Data Mover failover
- » Configure and manage Celerra file systems
- » Export Celerra file systems for NFS and CIFS access
- » Implement Virtual Data Movers
- » Implement CIFS features, SnaSure & Celerra Replicator
- » Implement Celerra in an iSCSI environment

Celerra MPFS Solution Design and Implementation

Course Code: NSMPFSWS

Duration: 4 Days

*This course supports Celerra version 5.6.

Description:

This course provides an in-depth education of Celerra MPFS, focusing on its architecture and the types of environments and applications where it is best suited. The students will learn the steps needed to configure MPFS using the Fibre Channel and iSCSI protocols (integrated with a Cisco MDS switch and a CLARiiON combo card). This course also provides training on connecting to Windows and Linux hosts. Students are also introduced to the use of the MCM tool to analyze and configure an MPFS environment. Labs reinforce the lecture for both configurations.

What you will learn:

- » Describe the basic iSCSI architecture and technology involved with an MPFS implementation
- » Describe the basic Fibre Channel architecture and technology involved with an MPFS implementation
- » Describe the Celerra MPFS implementation and best practices
- » Successfully configure MPFS for iSCSI with the CLARiiON combo card or Cisco MDS Switch
- » Successfully configure MPFS for Fibre Channel with a Fibre Channel switch
- » Use MPFS tools to analyze and configure an MPFS environment

NAS Symmetric Business Continuity

Course Code: NSNASB

Duration: 3 Days

*This course supports Celerra version 5.6.

Description:

This course focuses on business continuity tools used to provide local and remote file system replication for NAS in a Symmetrix environment. It provides students lecture and hands-on instruction on the functionality and the implementation of NAS solutions using TimeFinder/FS and Symmetrix Remote Data Facility (SRDF). The course also focuses on practical implementation ideas for these solutions.

What you will learn:

- » Describe the concepts of Business Continuity
- » Identify the components of the Symmetrix that make up the TimeFinder feature
- » Describe and implement Celerra TimeFinder/FS, TimeFinder/FS NearCopy and TimeFinder/FS FarCopy
- » Identify the components of the Symmetrix that make up the Symmetrix Remote Data Facility
- » Describe and implement Celerra Symmetrix Remote Data Facility

Celerra NDMP Backup Solutions Workshop

Course Code: NSNDMPBACK

Duration: 4 Days

Description:

This course leads the student through a hands-on exercise in the configuration, implementation, and execution of Network Data Management Protocol (NDMP) backup and restore of EMC NAS systems, using EMC NetWorker and an EMC Disk Library (EDL). It also introduces the Celerra Virtual Tape Library (VTL) feature. This course currently supports DART 5.6.

What you will learn:

- » Configure EMC NAS systems for NDMP backup participation using both a local and a three-way implementation
- » Configure an EMC Disk Library (EDL) to be the target for an EMC NAS system backup
- » Configure and use the Celerra Virtual Tape Library (VTL) feature for EMC NAS system backup
- » Backup and restore file systems and individual files on an EMC NAS system using EMC NetWorker

Symmetrix Business Continuity - TimeFinder Solutions

Course Code: SMLCSP

Duration: 2 Days

Description:

This specialization level course focuses on the TimeFinder product suite on DMX. Configuration and operations are discussed in detail and reinforced with hands-on activities and demonstrations. Configuration, operations, and integration with both Windows and Unix hosts are discussed in detail and reinforced via hands-on activities. Emphasis is on using the EMC Solutions Enabler Command Line Interface for managing TimeFinder operations in an enterprise environment. TimeFinder Mirror, Clone and Snap are presented in this class. An overview of EMC's Symmetrix Management Console (SMC) is also presented in this program.

What you will learn:

- » Describe the TimeFinder theory of operations
- » Describe TimeFinder functionality and its use within an IT environment
- » Use SYMCLI command set to perform TimeFinder Mirror, Clone and Snap operations
- » Describe TimeFinder host considerations and configurations within a Sun Solaris, HP-UX, AIX and Windows environments
- » Describe EMC's SMC (Symmetrix Management Console) within a TimeFinder Environment
- » Describe EMC Consistency Technology within a TimeFinder environment

Symmetrix Business Continuity - SRDF Solutions

Course Code: SMRRSP

Duration: 3 Days

Description:

This specialization level course focuses on the SRDF product suite on DMX. Configuration and operations are discussed in detail and reinforced with hands-on activities and demonstrations. Configuration, operations and integration with Windows and UNIX hosts are discussed in detail and reinforced via hands-on activities. Emphasis is on using the EMC Solutions Enabler Command Line Interface for managing SRDF operations in an enterprise environment. SRDF Synchronous, Asynchronous and Automated Replication, SRDF Cascaded are presented in this class. An overview of EMC's Symmetrix Management Console (SMC) is also presented in this program.

What you will learn:

- » Identify SRDF concepts, terminology and functionality
- » Identify SRDF host considerations within Sun Solaris, HP-UX, IBM and Window environments
- » Identify the architecture components of SRDF/A
- » Describe SRDF/A operations
- » Identify the architecture components of SRDF/AR
- » Describe SRDF/AR and SRDF Cascading operations

Symmetrix Performance Workshop

Course Code: SPERET

Duration: 4 Days

Description:

Learn to analyze the performance of a Symmetrix DMX array (through DMX-4) using ControlCenter Performance Manager version 6.0. Through extensive discussion of the Symmetrix DMX architecture, you will learn how data is processed by each component and which workload characteristics produce the highest levels of performance. Learn to effectively utilize the Symmetrix performance features when planning for new or migrated workloads. Using Performance Manager, you will view the effects of workload imbalance, over utilization, cache saturation, and data misalignment. You will examine the archive to detect performance issues and make recommendations for improvement.

What you will learn:

- » Relate knowledge of the Symmetrix architecture and I/O handling processes to their performance benefits
- » Identify the performance impact different types of workloads have on Symmetrix architectural components
- » Use key Performance Manager metrics to identify performance bottlenecks and over utilization
- » Make performance-oriented recommendations when allocating new storage or migrating applications

Information Storage and Management

Course Code: ISM

Duration: 5 Days

Description:

This course is the only of its kind to fill the knowledge gap in understanding varied components of modern storage infrastructure. It provides a comprehensive introduction to information storage technology enabling you to make more informed decisions in an increasingly complex IT environment. It builds a strong understanding of underlying storage technologies, prepares you to learn advanced concepts, technologies and products.

What you will learn:

- » Evaluate storage architectures, including storage subsystems, DAS, SAN, NAS, CAS
- » Define backup, recovery, disaster recovery, business continuity and replication
- » Examine emerging technologies including IP-SAN
- » Understand logical and physical components of a information storage infrastructure
- » Identify components of managing and monitoring the data center
- » Define information security and identify different storage virtualization technologies

Symmetrix Business Continuity Management

Course Code: SYMBCMGMT

Duration: 5 Days

Description:

This course provides the knowledge required for architecting, deploying and managing Symmetrix-based local and remote replication solutions for business continuity needs. Operational details and implementation considerations for EMC TimeFinder, SRDF and Open Replicator are covered in detail. Lab exercises will be performed on Open Systems hosts (IBM/AIX, HP-UX, Sun Solaris with Veritas Volume Manager and Windows 2003) attached to Symmetrix VMax series arrays.

What you will learn:

- » Describe the theory of operations of TimeFinder/Clone and TimeFinder/Snap solutions, for Local Replication
- » Use the SYMCLI command set to perform TimeFinder/Clone and TimeFinder/Snap operations
- » Describe and perform SRDF operations in Synchronous (SRDF/S) and Asynchronous (SRDF/A) modes, for Remote Replication
- » Describe and perform SRDF/Automated Replication (SRDF/AR) operations in a single-hop configuration
- » Perform ORS data replication in Hot/Cold, Push and Pull scenarios
- » Describe host considerations when using TimeFinder and SRDF solutions

Symmetrix Configuration Management

Course Code: SYMCFG

Duration: 4 Days

Description:

This course provides participants with the information needed to configure a Symmetrix and prepare it for host access. The course content will emphasize the use of the Symmetrix Command Line interface (SYMCLI). Time will also be spent on managing configuration changes with the Symmetrix Management Console (SMC) GUI. The content will cover different types of devices and their functions. Creation, mapping and masking of devices will be included in lecture and lab material. Setting Symmetrix metrics and RDF group attributes will be covered. Emphasis will be given to newer features such as Virtual Provisioning and Dynamic LUN migration. Lab exercises will cover operational details of all topics.

What you will learn:

- » Create and delete regular and meta devices
- » Map and unmap devices
- » Change Symmetrix metrics and RDF group attributes
- » Mask devices to hosts
- » Perform storage migration using Virtual LUNs
- » Implement Virtual Provisioning

VMware ESX Server - CLARiiON Integration Workshop

Course Code: VMWCIWS

Duration: 5 Days

Description:

This course provides students with hands-on experience integrating EMC CLARiiON storage arrays with VMware ESX Server. The course focuses on operations that IT Professionals may be required to perform when provisioning, managing, migrating, replicating and performing backups of CLARiiON storage to support a VMware ESX Server. The course also examines some of the specifics of storage management in an ESX environment.

VMware ESX Server - Symmetrix Integration Workshop

Course Code: VMWSIWS

Duration: 5 Days

Description:

This instructor-led, lab format class provides students with the opportunity to acquire hands-on experience integrating EMC Symmetrix storage with VMware ESX Server 3.5. The course focuses on operations that EMC Engineers and IT Professionals may be required to perform when provisioning, managing, migrating, replicating, and performing backups of Symmetrix storage to support a VMware ESX Server 3.5 system, and examines some of the specifics of storage management in an ESX environment. The course focuses on the Symmetrix storage platform and ESX Server 3.5 virtualization platform and covers base connectivity (including Boot from SAN), array management, virtual machine storage provisioning, storage visibility, multipathing (ESX Multipath), business continuance operations (with TimeFinder and Symmetrix Remote Data Facility), and Symmetrix/VMware storage best practices.

ACADIA - THE CISCO, VMWARE AND EMC ALLIANCE

Cisco, EMC and VMware announced a joint partnership called the Virtual Computing Environment Coalition (VCE). The key goal of the VCE is to accelerate customer migration to virtualization and cloud infrastructures. The Virtual Computing Environment will accomplish this in different ways.

VBlock Infrastructure Packages

VBlock infrastructure packages are pre-configured bundles that are sized to support specific workloads. These packages are available to run both on the customer site, as well as in a hosted (cloud) facility. VMware has been centered around the unification of private and public clouds. VBlock is a building block of this integrated cloud.

The VBlock infrastructure packages are offered in “bundles”. These bundles are numbered 0-2:

- » VBlock 0 is an entry level package supporting 300-800 virtual machines. This is built on Cisco UCS, EMC Celerra Unified Storage, VMware vSphere and the Nexus 1000v.
- » VBlock 1 is a mid level package supporting 800 – 3000 virtual machines. This is built on Cisco UCS, Cisco MDS, EMC Clarion, VMware vSphere and the Nexus 1000V
- » Vblock 2 is a high end package supporting 3000 – 6000 virtual machines. This is built on Cisco UCS, Cisco MDS, EMC Symmetrix V-Max, VMware vSphere and the Nexus 1000V

Integrated Pre-Sales, Service and Support – Fighting the skill silo

The defining factor in the successful deployment of virtualization infrastructure has been cross platform knowledge and experience for the Storage, Network, and Virtualization components.

Acadia

Acadia—a joint venture of Cisco and EMC, along with VMware and Intel—focuses on speeding adoption of private cloud infrastructures through end-to-end enablement of service providers and large enterprise customers. Acadia’s unique ‘build, operate, transfer’ model for delivering Vblock architecture, addressing people, process, and technology, will offer customers further choice, flexibility, and cost advantages as they seek to virtualize their IT infrastructures and evolve to the private cloud.



	Vblock Overview	UCS Overview	UCS Manager	UCS5108 Blade Chassis	UCS6100 Fabric Interconnect	Nexus 5000	Nexus 7000	Nexus 100V	MDS 9506	SMC/Navisphere	Symmetrix V-Max	vSphere	vCenter	RSA
Daily ops	X	X	X							X			X	
Security	X	X										X		X
Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Network Mgt	X	X		X		X	X	X						
Storage	X	X			X				X	X	X			
DMO	X	X		X				X				X	X	

Acadia Courses

Vblock Overview Workshop

Course Code: VOW

Duration: 1 Day

Description:

This workshop is intended for IT professionals who want to get an introduction to the philosophy, benefits and principal technical characteristics and principles of management (as the crow flies) from Vblock Infrastructure Packages. It discusses the Private Cloud "concept, the architecture includes integrated Vblock EMC, VMWare and Cisco components.

What you will learn:

- » To understand how using Vblock IT departments simplify and accelerate the delivery
- » The parts of a Vblock and its relationship to describe
- » Describe principles of Cisco Unified Computing System
- » Describe principles of EMC Symmetrix arrays and EMC V-Max CLARION arrays
- » Describe principles of VMware vSphere Data Center Operating System
- » Describe templates for building UCS blade servers, EMC Symmetrix storage provisioning using VMware virtual machines to deploy

Vblock Introduction to Skills for Operators

Course Code: VISO

Duration: 2 Days

Description:

This workshop is intended for IT professionals responsible for monitoring and control of primary Vblock Infrastructure Packages. Addressed are an introduction to the Private Cloud concept, the architecture includes integrated Vblock EMC, VMWare and Cisco components. In the second section examines the available Vblock-critical system management tools how the tasks would be performed.

What you will learn:

All that is part of the vBlock Overview Workshop, and

- » Management of UCS to optimize and simplify by using the UCS Manager GUI and CLI
- » At a basic way to work with the Symmetrix Management Console GUI
- » At a basic way to work with CLI Enabler solutions that provide simplified management of EMC Symmetrix storage V-Max
- » Work with vSphere GUI that provides simplified management of virtual machine systems

Cisco Data Center Unified Computing Implementation

Course Code: DCUCI

Duration: 5 Days

Description:

This five-day hands-on course focuses on the deployment and operation of a Cisco Unified Computing System (Cisco UCS). Delegates will learn how to configure and manage Cisco UCS servers with consolidated I/O networking for LAN and SAN connectivity, how to virtualize server properties to enable simple and rapid mobility of server operating system images between physical servers. Hands-on labs enable delegates to gain experience in configuring fault tolerance, implementing a multi-tenant management model, backing up and restoring system configurations, and how to make the most of the monitoring and troubleshooting tools built into Cisco UCS Manager.

What you will learn:

- » Describe the Cisco UCS system architecture,
- » Perform the key operational tasks required to deploy a Cisco Unified Computing System
- » Explain the connectivity requirements for the Cisco UCS platform
- » Configure Physical, logical Unified Fabric Connectivity Define, implement the Basic Opt-In and Logical Server Management Models
- » Explain how the Cisco Nexus 1000V switch fits in to a VMware server virtualization environment

Implementing & Configuring Cisco Nexus 7000

Course Code: ICNX7

Duration: 3 Days

Description:

In this course, you will learn how to implement an enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus 7000 platform. This course provides a technical overview of the Nexus platform architecture, deployment, and operations, including Virtual Device Contexts, Layer 2 and Layer 3 features, QoS, and security. The features of NX-OS and the Nexus platform are explored using hands-on labs which incorporate actual Nexus 7000 Switches as opposed to using NX-OS simulators. This course is delivered as part of the Global Knowledge and Firefly strategic alliance, providing delegates with the latest in Data Center technology.

What you will learn:

- » Describe the features of the Nexus 7010 chassis, Supervisor Engine, and line cards
- » Configure switch management features like Call Home, logging, AAA, and RBAC
- » Configure Virtual Device Contexts
- » Configure Layer 2 and Layer 3 services
- » Configure NX-OS Process Recovery and Supervisor Redundancy
- » Configure access and admission control

Implementing & Configuring the Cisco Nexus 1000v

Course Code: ICNX1V

Duration: 3 Days

Description:

The Cisco Nexus 1000V is a virtual switch that resides within the VMware ESX Server instance and provides operations and management consistency with existing Cisco Nexus and Catalyst switches. The Nexus 1000V leverages the VN-Link specification, together with VMware's vNetwork Distributed Switch framework, to offer tightly integrated network services as part of a comprehensive Data Center server virtualization strategy. This 3-day course provides you with an in-depth look at the design and configuration process for the Cisco Nexus 1000V, including hands-on labs in which you will configure a VMware infrastructure, configure the Nexus 1000V and demonstrate policy mobility during virtual machine migration.

What you will learn:

- » Describe the Nexus 1000V switch and its role in a virtual server network environment
- » Describe the Nexus 5000, 2000, and 1000V access layer architecture
- » Model and configure virtual access layer topologies
- » Install and configure the Nexus 1000V
- » Configure VN-Link on the Nexus 5000
- » Monitor and troubleshoot Nexus 1000V environments

Implementing Cisco Storage Networking Solutions

Course Code: ICSNS

Duration: 5 Days

Description:

This instructor led hands on course provides delegates with the fundamental skills required to implement and troubleshoot Cisco Storage Networks. Course topics include installing and bringing up the switch, configuring Virtual SANs (VSANs), domains, interfaces, and zones. Implementing Portchannels, configuring management security, and basic troubleshooting. You will also learn how to highly available FCIP tunnels and tune the performance of your FCIP links. This course combines MDSCT & CMSE into a single course updated for SAN-O 2.1, 3.0.

What you will learn:

- » Identify the components, services, and features of the MDS 9000
- » Explain how to implement the logical topology specified by a SAN design
- » Identify MDS 9000 diagnostic tools in order to diagnose SAN problems and common configuration errors
- » Describe how to safely install the switch hardware and perform the initial software configuration process
- » Describe the traffic management features associated with Intelligent Network Services for the MDS 9000
- » Describe how to use FCIP to implement appropriate solutions for SAN extension

Symmetrix Configuration Management

Course Code: SYMCFG

Duration: 4 Days

Description:

This course provides participants with the information needed to configure a Symmetrix and prepare it for host access. The course content will emphasize the use of the Symmetrix Command Line interface (SYMCLI). Time will also be spent on managing configuration changes with the Symmetrix Management Console (SMC) GUI. The content will cover different types of devices and their functions. Creation, mapping and masking of devices will be included in lecture and lab material. Setting Symmetrix metrics and RDF group attributes will be covered. Emphasis will be given to newer features such as Virtual Provisioning and Dynamic LUN migration. Lab exercises will cover operational details of all topics.

What you will learn:

- » Create and delete regular and meta devices
- » Map and unmap devices
- » Change Symmetrix metrics and RDF group attributes
- » Mask devices to hosts
- » Perform storage migration using Virtual LUNs
- » Implement Virtual Provisioning

VMware vSphere 4: Overview

Course Code: VSO

Duration: 1 Day

Description:

This hands-on training course introduces the most compelling features of VMware® vSphere™ 4. This course demonstrates vSphere features that help to reduce your IT costs while improving efficiency, availability, flexibility, and manageability.

What you will learn:

- » Using VMware vCenter™ Server to deploy virtual machines
- » Performing live migrations of virtual machines
- » Configuring VMware ESX™ clusters to automatically balance virtual machine workloads
- » Hierarchically allocating CPU and memory resources to specific business functions
- » Using vCenter Server alarms to proactively monitor the virtual datacenter
- » Ensuring high availability of applications

VMware vSphere 4: Install, Configure, Manage

Course Code: VSICM

Duration: 4 Days

Description:

This hands-on training course explores installation, configuration, and management of VMware® vSphere, which consists of VMware ESXi/ESX™, and VMware vCenter Server. Upon completion of this course, you can take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, and vCenter Server 4.0.

What you will learn:

- » Install and configure ESX & vCenter Server
- » Configure and manage ESX networking and storage using vCenter Server
- » Manage user access to the VMware infrastructure
- » Monitor resource usage using vCenter Server
- » Apply patches using vCenter Update Manager
- » Manage higher availability and data protection using vCenter Server

VMware ESX Server - Symmetrix Integration Workshop

Course Code: VMWSIWS

Duration: 5 Days

Description:

Overview This instructor-led, lab format class provides students with the opportunity to acquire hands-on experience integrating EMC Symmetrix storage with VMware ESX Server 3.5. The course focuses on operations that EMC Engineers and IT Professionals may be required to perform when provisioning, managing, migrating, replicating, and performing backups of Symmetrix storage to support a VMware ESX Server 3.5 system, and examines some of the specifics of storage management in an ESX environment. The course focuses on the Symmetrix storage platform and ESX Server 3.5 virtualization platform and covers base connectivity (including Boot from SAN), array management, virtual machine storage provisioning, storage visibility, multipathing (ESX Multipath), business continuance operations (with TimeFinder and Symmetrix Remote Data Facility), and Symmetrix/VMware storage best practices.

VMware vSphere 4: Design Workshop

Course Code: VSD

Duration: 3 Days

Description:

This course explores a design methodology, criteria, and approach for designing a VMware vSphere™ 4 virtual datacenter architecture consisting of VMware ESX™/ESXi 4 and VMware vCenter™ Server 4. This course, by discussing the benefits and risks of available design alternatives, provides information which supports making sound design decisions. This course also provides an opportunity to practice your design skills by working with peers on a design project

What you will learn:

- » Identify design goals, requirements, and constraints
- » Identify useful information for making design decisions
- » Recognize and analyze best practice recommendations
- » Analyze alternative design choices
- » Identify risks
- » Work in a design team on a design project

Cisco MDS Storage Networking Fundamentals

Course Code: CMSNF

Duration: 2 Days

Description:

This 2-day training course, targeted at pre-sales engineers, is focused on developing a good understanding around the architecture, features and value of Cisco MDS 9000 Family products. At the end of this course they will understand the positioning of each product as well as competitive differentiation. They will also be able to recommend Cisco Storage Networking products in various designs.

What you will learn:

- » Identify and configure the features of the Cisco MDS 9000 storage networking platform that enable reliable, scalable SAN fabrics.
- » Describe the MDS 9000 hardware architecture including the common features, the system components and the key differentiators.

VMware vSphere 4: Manage and Design for Security

Course Code: VSMD5

Duration: 2 Days

Description:

This course shows you how to follow best practices for secure design, deployment, and operation of a VMware vSphere™ environment. Through lecture, discussion, and hands-on practice, you will gain the knowledge and skills necessary to meet the security and compliance goals of your organization.

What you will learn:

- » Identify vulnerabilities in the current design of a vSphere environment and recommend corrective actions
- » Harden vSphere components as described in vSphere Hardening Guide
- » Recommend configuration and change management policies, processes, and systems

Cisco Data Center Unified Computing Design

Course Code: DCUCD

Duration: 4 Days

Description:

The Data Center Unified Computing Design (DCUCD) course provides you with the knowledge to design scalable, reliable and intelligent Data Center Unified Computing solutions incorporating Cisco Unified Computing System (UCS), Cisco Nexus family switches, Catalyst 6500 in Virtual Switching System (VSS), MDS family SAN switches with NX-OS, Data Center NetworkManager (DCNM) and MDS Fabric Manager configuration and management applications, VMware server virtualisation products and Linux and Microsoft Windows operating system. Hands-on labs will reinforce these design concepts and enable you to become familiar with the UCS environment.

What you will learn:

- » Understand Cisco Unified Computing solutions, identify server architecture.
- » Identify and understand Cisco UCS components, management, system connectivity, high availability
- » Understand and design Cisco Unified Computing network.
- » Identify Cisco UCS deployments and describe solution advantages.
- » Understand server virtualization and server virtualization networking.
- » Evaluate Cisco Unified Computing solution, understand design success criteria, and determine ROI.



Certification & Training Survey

Vendor training that pays off

Solution providers that invest in vendor technical certifications are more profitable, sell more complex systems and have better relationships with their customers, according to the new Channel Insider/Amazon Consulting certification study. But not all vendor certifications have the same ROI. The following vendors, ranked according to the results of the survey, have the best certifications for return on their partners' investment.

“

1. **Microsoft®**

Top Score Rankings

VAR's 47.1%

End Users 69.9% (1)

Say what you will about Microsoft and its products, but no one can top this vendor's market power and value of its certifications.

Solution providers who have attained Microsoft certifications have built profitable relationships among customers, as well as gained access to new technologies and resources. By far, enterprises and midmarket companies give Microsoft certifications their highest rating.

”

“



2.

Top Score Rankings

VAR's 23.7%

End Users 42.8% (2)

Cisco Systems' hardware is the standard for networking. Cisco uses its certification as one of the key metrics for measuring partner success. Solution providers who have invested in Cisco training have found doors opened for them to leverage in the market. The certification pays off among end users, too, who rate it as the second highest certification on their solution provider consideration list.

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6. **vmware®**

Top Score Rankings

VAR's 6.9%

End Users 18.3% (7)

Virtualisation technology is permeating every facet of the IT infrastructure. Through training and certification, solution providers are finding new opportunities to innovate and meet customer expectations. End users don't always have the skill sets and resources to leverage virtualisation, so they're turning to solution providers for help. VMware, the virtualisation market leader, is naturally the leader in virtualisation certifications.

”

“

10. **CITRIX®**

Top Score Rankings

VAR's 3%

End Users >1%

In addition to its server and networking software, Citrix is the leading alternative to VMware's virtualisation products. While enterprise and midmarket companies aren't necessarily recognizing the value of Citrix certifications, solution providers agree that Citrix training does benefit their business.

”

Training Without Travel

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For more information on "Training Without Travel" contact your local Global Knowledge office or send an email to info@globalknowledge.net





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