MERCURY

MCSA Certification Course: Windows Server 2016 Boot Training Camp

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Introduction

The MCSA: Windows Server 2016 Training Course is an intermediate-level certification that empowers candidates to monitor and manage Windows Server 2016 operating system, client-server structure, network infrastructure, virtualization, domain management, and security implementation.

This MCSA training course provides essential knowledge and skills to network administrators, computer network specialists, computer support specialists, and Windows Server administrators looking to enhance their expertise in the Microsoft technology stack and pursue a role in IT infrastructure management.

What is the MCSA course? Understanding the MCSA is critical for professionals who aim to validate their technical expertise through the Microsoft Certified Systems Administrator MCSA certification.

This MCSA Windows Server 2016 certification training will equip you to manage and troubleshoot network environments based on the Windows Server 2016 operating system.

Targeted Groups

- Network administrators.
- Computer network specialists.
- Computer support specialists.
- Windows server administrators.

Microsoft MCSA Certification Training Subheading

For those searching for an MCSA course near me, this MCSA Windows Server 2016 certification provides expert instruction, hands-on labs, and a clear roadmap for accreditation.

Participants looking for an MCSA guide to networking with Windows Server 2016 will find this comprehensive MCSA Server 2016 certification training invaluable. It prepares you for the Microsoft MCSA certification. It equips you with practical know-how for real-world challenges, ensuring you're ready for the exams and the technical demands of today's IT environments.

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Course Objectives

At the end of this MCSA training course, participants will be able to:

- Plan and prepare a comprehensive strategy for a server upgrade or migration.
- Prepare and install Server Core installation, Nano Server, and other essential server infrastructure components.
- Understand different storage options, including primary and dynamic disks, partition table formats, virtual hard disks, file systems, and drive hardware, and effectively manage storage disks and volumes.
- Implement and manage enterprise storage solutions, identifying the most suitable solutions for specific scenarios.
- Confidently apply and maintain Data duplication and Storage Spaces.
- Configure and install Microsoft Hyper-V, understanding the pivotal role of virtualization in modern server environments.
- Install and manage Windows and Hyper-V containers, contributing to software deployment and management agility.
- Grasp and implement disaster recovery and high availability procedures in Windows Server 2016.
- Planned, implemented, and managed failover clustering to ensure service availability and business continuity.
- Implement failover clustering to enhance the reliability of Hyper-V virtual machines.
- Designed, configured, and implemented a Network Load Balancing NLB cluster to maintain high application performance and availability.
- Configure and support deployment images for streamlined server deployments and upgrades.
- Configure, monitor, and manage virtual machine installations, keeping up with the demand for scalable virtualized infrastructure.

Targeted Competencies

At the end of this MCSA training course, the target competencies will be able to:

- Implementing and troubleshooting an IPv4 network.
- Configuring and evaluating IPv6 transition technologies.
- Integrating DNS with active directory.
- Configuring advanced DNS settings.
- Implementing branch cache.
- Configuring advanced Hyper-V networking features.

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Course Content

Unit 1: Planning and Implementing an IPv4 Network

- Planning IPv4 addressing.
- Configuring an IPv4 host.
- Managing and troubleshooting IPv4 network connectivity.

Unit 2: Implementing DHCP

- Overview of the DHCP server role.
- Deploying DHCP.
- Managing and troubleshooting DHCP.

Unit 3: Implementing IPv6

- Overview of IPv6 addressing.
- Configuring an IPv6 host.
- Implementing IPv6 and IPv4 coexistence.
- Transitioning from IPv4 to IPv6.

Unit 4: Implementing DNS

- Configuring zones in DNS.
- Configuring name resolution between DNS zones.
- Configuring DNS integration with Active Directory Domain Services AD DS.
- Configuring advanced DNS settings.

Unit 5: Implementing and Managing IPAM

- IPAM overview.
- Deploying IPAM.
- Managing IP address spaces by using IPAM.

Unit 6: Remote Access in Windows Server 2016

- Remote access overview.
- Implementing web application proxy.

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Unit 7: Implementing Direct Access

- Overview of direct access.
- Implementing direct access by using the getting started wizard.
- Implementing and managing an advanced direct access infrastructure.

Unit 8: Implementing VPNs

- Planning VPNs.

Unit 9: Implementing Networking for Branch Offices

- Networking features and considerations for branch offices.
- Implementing a Distributed File System DFS for branch offices.
- Implementing branch cache for branch offices.

Unit 10: Configuring Advanced Networking Features

- Overview of high-performance networking features.
- Configuring advanced Hyper-V networking features.

Unit 11: Implementing Software-Defined Networking SDN

- Overview of SDN.
- Implementing network virtualization.
- Implementing a network controller.