MERCURY

Upgrading Your Skills to MCSA: Windows Server 2016

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Introduction:

Upgrading Your Skills to MCSA: The Windows Server 2016 course is designed to convey indispensable knowledge about configuring and implementing new functionality and features of Windows Server 2016. This MCSA training course is for IT professionals to leverage your existing knowledge and prepare you for the MCSA Windows Server certification, ensuring that you are well-versed in the advanced capabilities of Windows Server 2016.

Understanding the MCSA: Windows Server 2016 certification is critical for IT professionals to validate their skills in the latest Microsoft server technology. The MCSA training course offers an in-depth understanding and hands-on experience with Windows Server 2016.

This MCSA certification training near you is designed to upgrade your proficiency and provide you with the MCSA Windows Server certification that is recognized globally. By participating in this MCSA Windows Server 2016 training, you will be fully prepared to take the MCSA Windows Server 2016 certification exam and effectively manage the Windows Server environment in your organization.

This MCSA server 2016 certification course is not only a deep dive into the features and functionalities of the Windows Server 2016 but also a definitive step towards gaining the MCSA server certification, which is a testament to your proficiency in Microsoft server solutions. By the end of the MCSA certification course, you'll be poised to implement and manage a cutting-edge Windows Server 2016 environment confidently.

Targeted Groups:

This MCSA Windows Server 2016 course is ideal for IT professionals who have experienced Windows Server 2012 or Windows Server 2008 system administrators with real-life experience working with Windows Server 2008 R2 or Windows Server 2008 in an enterprise setting. MCSA certification training is imperative for those seeking to validate their skills and expertise in the latest Microsoft server technologies.

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Course Objectives:

Upon completing this MCSA Windows Server 2016 course, participants will be able to:

- Install and configure Windows Server 2016 with confidence and precision.
- Explore and manage storage solutions within Windows Server 2016 effectively.
- Implement directory services and understand their impact on the organization.
- Utilize Active Directory Federation Services AD FS for secure, federated identity management.
- Grasp the intricacies of networking within the Windows Server environment.
- Master virtualization techniques by implementing and managing Hyper-V.
- Configure and troubleshoot advanced networking features, enhancing server performance.
- Embrace software-defined networking to simplify network management.
- Provide reliable remote access solutions within the infrastructure.
- Deployed and managed both Windows Server and Hyper-V containers proficiently.
- Develop robust failover clustering strategies for improved availability and disaster recovery.
- Implement failover clustering with virtual machines, combining flexibility with resilience.

Targeted Competencies:

Participants in the MCSA Windows Server 2016 certification course will develop competencies in the:

- Mastery of installing and configuring Server Core.
- Effective management of storage strategies, including Storage Spaces and Data duplication.
- Proficiency in managing Active Directory Domain Services AD DS.
- Advanced understanding of implementing diverse network services.
- Skillful handling of Windows Server and Hyper-V containers.
- Implementation of robust failover clustering mechanisms.

Course Content:

Unit 1: Installing and Configuring Windows Server 2016:

- A comprehensive introduction to what the Windows Server 2016 brings to the table.
- Step-by-step guidance on installing Windows Server 2016 correctly.
- Configuration best practices for Windows Server 2016 to optimize server performance.
- Detailed discussions on upgrade and migration strategies for seamless transitions.
- Meticulous methodologies for migrating server roles and workloads efficiently.
- Exploring Windows Server activation models and their relevance.

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Unit 2: Overview of Storage in Windows Server 2016:

- Configuration techniques for Internet SCSI iSCSI storage and their benefits.
- Leveraging the Storage Spaces feature in Windows Server 2016 for greater storage flexibility.
- How to implement the Data Deduplication feature to optimize storage efficiency.

Unit 3: Implementing the Directory Services Feature:

- Deployment strategies for AD DS domain controllers and managing domain services.
- Best practices for implementing service accounts and their importance in security.
- Understanding Azure AD and its integration with on-premises directory services.

Unit 4: Implementing AD FS:

- Introduction and overview of AD FS and its role in single sign-on SSO solutions.
- Step-by-step deployment of AD FS.
- Implementing AD FS tailored for a single organization's needs.
- Best practices for implementing a web application Proxy in an AD FS environment.
- Leveraging Azure AD FS for SSO with Microsoft Online Services.

Unit 5: Implementing Network Services:

- A detailed look at the enhancements in networking with Windows Server 2016.
- Strategies for implementing and managing IP Address Management IPAM.
- Expert techniques for managing IP address spaces using IPAM tools and methodologies.

Unit 6: Implementing Hyper-V:

- Instructions on how to configure the Hyper-V role adequately in Windows Server 2016.
- Management of Hyper-V storage.
- Configuring Hyper-V networking for optimized virtualization.
- Creating and managing Hyper-V virtual machines and their resources.

Unit 7: Configuring Advanced Networking Features:

- An outline of high-performance networking features available in Windows Server 2016.
- Configuration of advanced Hyper-V networking features for enterprise-level performance.

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Unit 8: Implementing Software-Defined Networking:

- Understanding the principles and benefits of software-defined networking.
- Implementation of network virtualization and its transformative effects.
- Deploying the Network Controller feature for centralized network management.

Unit 9: Implementing Remote Access:

- Exploring the various forms of remote access and when to apply them.
- Detailed implementation strategies for DirectAccess for remote connectivity.
- Setting up and managing Virtual Private Network VPN connections securely.

Unit 10: Deploying and Managing Windows Server and Hyper-V Containers:

- Exploring the capabilities and use cases of Windows Server 2016 containers.
- Preparing the environment to support containerization technologies.
- Installing, configuring, and managing container instances effectively.

Unit 11: Implementing Failover Clustering:

- An introduction to failover clustering and its importance in high-availability solutions.
- Implementing failover clusters with best practices and industry standards.
- Configuring applications and services on failover clusters for high availability.
- Maintaining and troubleshooting failover clusters for continuous operation.

Unit 12: Implementing Failover Clustering with Windows Server 2016 Hyper-V:

- Insights into how Hyper-V Server 2016 integrates with failover clustering for enhanced reliability.
- Best practices for implementing Hyper-V virtual machines on failover clusters.
- Strategies for implementing Windows Server 2016 Hyper-V virtual machine migration for workload balancing.
- Leveraging the Hyper-V Replica feature for disaster recovery purposes.