MCSA
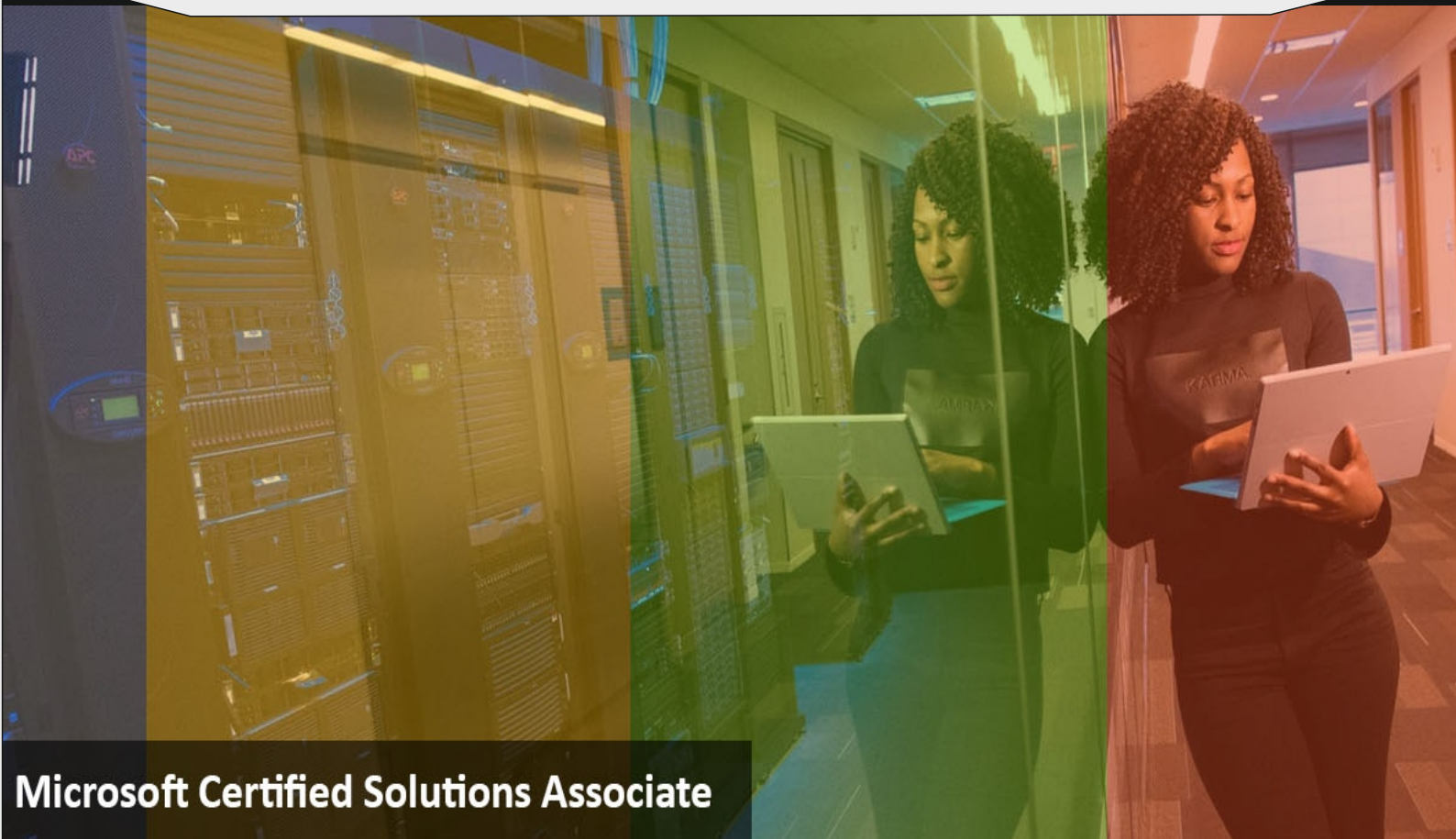
Microsoft Certified Solutions Associate

MCSA Server 2016

Course Description: Are you interested in learning about the Information Technology or computer career field? If so, then this course if for you. This course is designed to give you a solid foundation with Windows Server 2016 which is the latest Windows Server operating system available (released Oct 2016). The Microsoft Certified Solutions Associate (MCSA): Windows Server 2016 is an intermediate level certification that covers skills required to manage Windows Server 2016 Operating System, Client-Server Model, Network Infrastructure, Vitalization, Domain Management, Security Implementation, etc.

Of course MCSA Server 2016 have huge changes, number of exams still remains 3. The following exams are required to get Certified on MCSA Server 2016

70-740: Installation, Storage, and Compute with Windows Server 2016

70-741: Networking with Windows Server 2016

70-742: Identity with Windows Server 2016

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Installation, Storage, and Compute with Windows Server 2016
Exam : 70-740

Description: This Course focuses primarily on the installation, storage, and compute features and functionality available in Windows Server 2016. It covers general installation tasks and considerations and the installation and configuration of Nano Server, in addition to the creation and management of images for deployment. It also covers local and server storage solutions, including the configuration of disks and volumes Data Deduplication, High Availability, Disaster Recovery, Storage Spaces Direct, and Failover Clustering solutions.

Who is the target audience?
- Computer System Administrator, Network Administrator, Computer Support Specialist
- Technical Support, 2nd or 3rd line Support, Service Analyst
- Anyone who has desire to Learn Windows Server 2016 Requirements
- A basic understanding of networking fundamentals
- Desire to Learn

Install Windows Servers in Host & Compute Environments (10-15%)

Introduction to Microsoft Server Operating Systems.
Comparing Server 2012 to Server 2016
Understanding Licensing of Server 2016
Install, Upgrade, and Migrate Servers and workload
Install and configure Nano Server

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Implement Storage Solutions (10-15%)

Configure disks and volumes
Implement server storage

Implement Hyper-V (20-25%)

Install and configure Hyper-V
Configure virtual machine (VM) settings
Configure Hyper-V storage
Configure Hyper-V networking

Implement Windows Containers (5-10%)

Deploy Windows containers
Manage Windows containers

Implement High Availability (30-35%)

Implement high availability and disaster recovery options in Hyper-V
Implement failover clustering
Implement Storage Spaces Direct
Manage failover clustering
Manage VM movement in clustered nodes
Implement Network Load Balancing (NLB)

Maintain and Monitor Server Environments (10-15%)

Maintain server installations
Monitor server installations

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Description: Welcome to this course: Microsoft Windows Server 2016 Certification (70-741). In this course, you'll learn how to handle the essential administrative tasks in Windows Server 2016. Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. Windows Server 2016 DevOps is the solution to these challenges as it helps organizations to respond faster in order to handle the competitive pressures by replacing error-prone manual tasks using automation. Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator

Who is the target audience?
- Web developers
- Programmers
- Anyone who wants to learn Windows Server 2016
- Anyone who wants to get an IT Job

Implement Domain Name System (DNS) (15-20%)

1. Install and configure DNS servers
2. Forward Lookup Zone and Reverse Lookup Zone
3. Primary, Secondary and Stub Zone
4. Forwarders and Conditional Forwarders
5. Zone Transfer and DNSSEC
6. DNS Resource Records (RR), including A, AAAA, PTR, SOA NS, SRV, CNAME, and MX records
7. Root Hints and Dynamic DNS

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Implement Networking with DHCP and IPAM (25-30%)

Introduction to IPv4 and IPv6 Address Space
Install and configure DHCP
Manage and maintain DHCP
IPv4 and IPv6 Scope
Lease, Reservation and Scope options
Implement and Maintain IP Address Management (IPAM)

Implement Network Connectivity and Remote Access Solutions (20-25%)

Implement network connectivity solutions with NAT
Implement virtual private network (VPN) and DirectAccess solutions
Implement Network Policy Server (NPS)

Implement Core and Distributed Network Solutions (15-20%)

Implement IPv4 and IPv6 addressing
Tunneling and Routing
Implement Distributed File System (DFS)
DFS Name Space and Replication
Implement Branch Cache

Implement an Advanced Network Infrastructure (15-20%)

Implement high performance network solutions
NIC Teaming
Determine scenarios and requirements for implementing
Software Defined Networking (SDN)

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Identity with Windows Server 2016
Exam : 70-742

Description: Identity in Windows Server 2016 is the 3rd course towards the MCSA 2016 certification. This course covers Active Directory Domain services the primary identity management platform for Windows Networks. Learn how to deploy domain controllers manage various Active Directory objects, secure your network & manage it centrally using Group Policy. You will also learn how to connect your internal Active Directory to cloud based solutions such as Office 365 & Azure AD along with the establishment of complex AD DS internal infrastructures. Install and Configure Domain Controllers. Manage Active Directory Objects Users, Groups, Computers, and Organizational Units. Design and Manage complex infrastructures. Secure Active Directory Domain Services. Implementing and Troubleshooting Group Policy. Monitoring & Recovering Active Directory. Implementing Active Directory Certificate Services. Implement AD Federated Services. Implement Active Directory Rights Management Services Those seeking advanced training in Windows Server 2016 and pursuing the MCSA or MCSE IT certifications. The 70-742 is a must have certification covering various topics in Windows Server 2016 for the MCSA certification.

Installing and Configuring Domain Controllers (5-10%)

Introduction to Active Directory Domain Services
Overview of Identity Management Concepts
Active Directory Domain Services Components
Overview of ADDS Domain Services
Deploying Domain Controllers

Managing AD DS Objects (5-10%)

Overview of Object Management
Managing User Accounts
Managing Groups
Managing Computer Accounts
Managing Organizational Units

Securing Active Directory Domain Services (5-10%)

Managing Organizational Units
Implementing Account Security
Auditing AD DS
Configuring Managed Service Accounts

Working with Complex AD Infrastructures (15-20%)

Overview of Advanced AD DS Deployments
Deploying a Distributed AD DS Environment
Overview of AD DS Replication
Configuring AD DS Services

Implementing Group Policy (15-20%)

Overview of Group Policy
Creating and Configuring GPOs
Monitoring and Troubleshooting Group Policy
Managing Security Options for Computers using Group Policy
Managing User Environments

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Understanding Microsoft Azure AD and Directory Synchronization (10-15%)

Planning Directory Synchronization
Implementing Azure AD Connect
Managing Identities with Directory Synchronization

Monitoring and Recovering AD DS (10-15%)

Monitoring AD DS
Database Management
Backup and Recovery in AD DS

Implementing Active Directory Certificate Services (15-20%)

Overview of Public Key Infrastructure and AD CS
Deploying Certificate Authority Hierarchy
Administering Certificate Authorities
Deploying and Managing Certificates
Managing Revocation and Distribution
Configuring Certificate Recovery

Implementing Active Directory Federation Services (5-10%)

Overview of AD FS
Planning and Deploying AD FS
Overview of Web Application Proxy

Implementing Active Directory Rights Management Services (5-10%)

Overview of AD RMS
Deploying AD RMS
Protecting with AD RMS
Conclusion

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