Windows Server 2016 MCSA Bootcamp

This course will provide experienced IT professionals who wish to either upgrade their skills for the purpose of certifying on Microsoft Windows Server 2016 or who wish to gain information on Windows Server 2016 in an accelerated fashion.

TARGET AUDIENCE

Experienced Systems Administrator with extensive hands-on working knowledge of Windows Server 2003 and/or 2008/2008 R2 and/or 2012.

COURSE OBJECTIVES

The Microsoft Certified Solutions Associate (MCSA) certification for Windows 2012 is ideal for IT workers wanting to establish a solid foundation and understanding of Windows Server 2016. Exam Topics covered include: Installation & configuration of Windows Server 2016, Managing and understanding Active Directory Domain Services, implementing networking services, file and print services, implementing local storage, Administering Group Policy, Implementing Server virtualization with Hyper-V, Configure and troubleshoot DNS, Remote Access and file system security, and more...

COURSE OUTLINE

1 - INSTALLING, UPGRADING, AND MIGRATING SERVERS AND WORKLOADS

Introducing Windows Server 2016 Preparing and installing Nano Server and Server Core Preparing for upgrades and migrations Migrating server roles and workloads Windows Server activation models

2 - CONFIGURING LOCAL STORAGE

Managing disks in Windows Server 2016 Managing volumes in Windows Server 2016

3 - IMPLEMENTING ENTERPRISE STORAGE SOLUTIONS

Overview of direct-attached storage, network-attached storage, and storage area networks Comparing Fibre Channel, iSCSI, and FCoE Understanding iSNS, data centre bridging, and MPIO Configuring sharing in Windows Server 2016

4 - IMPLEMENTING STORAGE SPACES AND DATA DEDUPLICATION

Implementing Storage Spaces Managing Storage Spaces Implementing Data Deduplication

5 - INSTALLING AND CONFIGURING HYPER-V AND VIRTUAL MACHINES

Overview of Hyper-V Installing Hyper-V Configuring storage on Hyper-V host servers Configuring networking on Hyper-V host servers Configuring Hyper-V virtual machines Managing Hyper-V virtual machines

6 - DEPLOYING AND MANAGING WINDOWS AND HYPER-V CONTAINERS

Overview of containers in Windows Server 2016 Deploying Windows Server and Hyper-V containers Installing, configuring, and managing containers

7 - OVERVIEW OF HIGH AVAILABILITY AND DISASTER RECOVERY

Defining levels of availability Planning high availability and disaster recovery solutions with Hyper-V virtual machines Backing up and restoring the Windows Server 2016 operating system and data by using Windows Server B High availability with failover clustering in Windows Server 2016

8 - IMPLEMENTING FAILOVER CLUSTERING

Planning a failover cluster Creating and configuring a new failover cluster Maintaining a failover cluster Troubleshooting a failover cluster Implementing site high availability with stretch clustering

9 - IMPLEMENTING FAILOVER CLUSTERING WITH WINDOWS SERVER 2016 HYPER-V

Overview of integrating Hyper-V in Windows Server 2016 with failover clustering Implementing and maintaining Hyper-V virtual machines on failover clusters Key features for virtual machines in a clustered environment

10 - IMPLEMENTING NETWORK LOAD BALANCING

Overview of NLB clusters Configuring an NLB cluster Planning an NLB implementation

11 - CREATING AND MANAGING DEPLOYMENT IMAGES

Introduction to deployment images Creating and managing deployment images by using MDT Virtual machine environments for different workloads

12 - MANAGING, MONITORING, AND MAINTAINING VIRTUAL MACHINE INSTALLATIONS

WSUS overview and deployment options Update management process with WSUS Overview of PowerShell DSC Overview of Windows Server 2016 monitoring tools Using Performance Monitor Monitoring Event Logs

13 - PLANNING AND IMPLEMENTING AN IPV4 NETWORK

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

14 - IMPLEMENTING DHCP

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

16 - IMPLEMENTING DNS

Implementing DNS servers Configuring zones in DNS Configuring name resolution between DNS zones Configuring DNS integration with Active Directory Domain Services (AD DS) Configuring advanced DNS settings

16 - IMPLEMENTING IPV6

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

17 - IMPLEMENTING AND MANAGING IPAM

Overview of IPAM Deploying IPAM Managing IP address spaces by using IPAM

18 - REMOTE ACCESS IN WINDOWS SERVER 2016

Overview of remote access Implementing Web Application Proxy

19 - IMPLEMENTING DIRECTACCESS

Overview of DirectAccess Implementing DirectAccess by using the Getting Started Wizard Implementing and managing an advanced DirectAccess infrastructure

20 - IMPLEMENTING VPNS

Planning VPNs Implementing VPNs

21 - IMPLEMENTING NETWORKING FOR BRANCH OFFICES

Networking features and considerations for branch offices Implementing Distributed File System (DFS) for branch offices Implementing BranchCache for branch offices

22 - CONFIGURING ADVANCED NETWORKING FEATURES

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

23 - IMPLEMENTING SOFTWARE DEFINED NETWORKING

Overview of Software Defined Networking Implementing network virtualization Implementing Network Controller

24 - INSTALLING AND CONFIGURING DOMAIN CONTROLLERS

Overview of AD DS Overview of AD DS domain controllers Deploying a domain controller

25 - MANAGING OBJECTS IN AD DS

Managing user accounts Managing groups in AD DS Managing computer objects in AD DS Using Windows PowerShell for AD DS administration Implementing and managing Ous

26 - ADVANCED AD DS INFRASTRUCTURE MANAGEMENT

Overview of advanced AD DS deployments Deploying a distributed AD DS environment Configuring AD DS trusts

27 - IMPLEMENTING AND ADMINISTERING AD DS SITES AND REPLICATION

Overview of AD DS replication Configuring AD DS sites Configuring and monitoring AD DS replication

28 - IMPLEMENTING GROUP POLICY

Introducing Group Policy Implementing and administering GPOs Group Policy scope and Group Policy Processing Troubleshooting the application of GPOs

29 - MANAGING USER SETTINGS WITH GROUP POLICY

Implementing administrative templates Configuring Folder Redirection, Software Installation, and Scripts Configuring Group Policy preferences

30 - SECURING ACTIVE DIRECTORY DOMAIN SERVICES

Securing domain controllers Implementing account security Implementing audit authentication Configuring managed service accounts

31 - DEPLOYING AND MANAGING AD CS

Deploying CAs Administering CAs Troubleshooting and maintaining Cas

32 - DEPLOYING AND MANAGING CERTIFICATES

Deploying and managing certificate templates Managing certificate deployment, revocation, and recovery Using certificates in a business environment Implementing and managing smart cards

33 - IMPLEMENTING AND ADMINISTERING AD FS

Overview of AD FS AD FS requirements and planning Deploying and configuring AD FS Overview of Web Application Proxy

34 - IMPLEMENTING AND ADMINISTERING AD RMS

Overview of AD RMS Deploying and managing an AD RMS infrastructure Configuring AD RMS content protection

35 - IMPLEMENTING AD DS SYNCHRONIZATION WITH MICROSOFT AZURE AD

Planning and preparing for directory synchronization Implementing directory synchronization by using Azure AD Connect Managing identities with directory synchronization

36 - MONITORING, MANAGING, AND RECOVERING AD DS

Monitoring AD DS Managing the Active Directory database Active Directory backup and recovery options for AD DS and other identity and access solutions

Please note: Capacity is limited, so registration will occur on a first come, first served basis. A purchase order or check is required to hold your spot. Each registrant will receive confirmation that registration has been received and a space has been reserved. MVECA reserves the right to cancel the event if sufficient numbers are not registered. MVECA may also cancel due to speaker cancellation or inclement weather. Attendees will be notified via email as soon as possible prior to the event in case of such a cancellation. If you are unable to attend for any other reason, the full registration fee will be refunded if your cancellation notice is received no less than **three weeks** prior to the event (2/5/2018)