Programma Reti Microsoft MCSA

MCSA

ESAME 70-740 –

- ## Installazione, archiviazione ed elaborazione con Windows Server 2016

Questo esame si concentra principalmente sulle funzioni e funzionalità di elaborazione, archiviazione e installazione disponibili in Windows Server 2016. Tratta le attività e le considerazioni generali relative all'installazione e la configurazione e l'installazione di Nano Server, oltre alla creazione e alla gestione delle immagini per la distribuzione. Illustra inoltre le soluzioni di archiviazione server e locali, incluse le soluzioni di configurazione di dischi e volumi, deduplicazione dati, disponibilità elevata, ripristino di emergenza, spazi di archiviazione diretta e clustering di failover. L'esame tratta inoltre Hyper-V e contenitori, oltre alla manutenzione e al monitoraggio dei server in ambienti fisici e di elaborazione.

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

Configuring local storage

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

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

Implementing Storage Spaces and Data Deduplication

- Implementing Storage Spaces
- Managing Storage Spaces
- Implementing Data Deduplication

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

Deploying and managing Windows Server and Hyper-V containers

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

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

Implementing and managing 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

Implementing failover clustering for Hyper-V virtual machines

- 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

Implementing Network Load Balancing

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

Creating and managing deployment images

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

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

ESAME 70-741

- # Networking with Windows Server 2016

Questo esame si concentra principalmente sulle funzioni e funzionalità di elaborazione, archiviazione e installazione disponibili in Windows Server 2016. Tratta le attività e le considerazioni generali relative all'installazione e la configurazione e l'installazione di Nano Server, oltre alla creazione e alla gestione delle immagini per la distribuzione. Illustra inoltre le soluzioni di archiviazione server e locali, incluse le soluzioni di configurazione di dischi e volumi, deduplicazione dati, disponibilità elevata, ripristino di emergenza, spazi di archiviazione diretta e clustering di failover. L'esame tratta inoltre Hyper-V e contenitori, oltre alla manutenzione e al monitoraggio dei server in ambienti fisici e di elaborazione.

Planning and implementing an IPv4 network

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

Implementing DHCP

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

Implementing IPv6

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

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

Implementing and managing IPAM

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

Remote access in Windows Server 2016

- Remote access overview
- Implementing Web Application Proxy

Implementing DirectAccess

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

Implementing VPNs

- Planning VPNs
- Implementing VPNs

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

Configuring advanced networking features

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

Implementing software defined networking

- Overview of software defined networking
- Implementing network virtualization
- Implementing Network Controller

ESAME 70-742

- # Identity with Windows Server 2016

L'esame è incentrato sulla funzionalità delle identità in Windows Server 2016. Tratta l'installazione e la configurazione di Servizi di dominio Active Directory, oltre all'implementazione di Criteri di gruppo per gli ambienti non Nano Server. Tratta inoltre funzionalità quali Servizi certificati Active Directory, Active Directory Federation Services e implementazioni proxy applicazione Web.

Installing and configuring DCs

- Overview of AD DS
- Overview of AD DS DCs
- Deploying DCs

Managing objects in AD DS

- Managing user accounts
- Managing groups in AD DS
- Managing computer accounts

- Using Windows PowerShell for AD DS administration
- Implementing and managing organizational units

Advanced AD DS infrastructure management

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

Implementing and administering AD DS sites and replication

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

Implementing Group Policy

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

Managing user settings with GPOs

- Implementing administrative templates
- Configuring Folder Redirection and scripts
- Configuring Group Policy preferences

Securing AD DS

- Securing domain controllers
- Implementing account security
- Audit authentication
- Configuring managed service accounts (MSAs)

Deploying and managing AD CS

- Deploying CAs
- Administering CAs
- Troubleshooting and maintaining CAs

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

Implementing and administering AD FS

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

Implementing and administering AD RMS

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

Implementing AD DS synchronization with Azure AD

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

Monitoring, managing, and recovering AD DS

- Monitoring AD DS
- Managing the AD DS database
- Recovering AD DS objects