

Exam 70-414:

Implementing an Advanced Server Infrastructure

Manage and Maintain a Server Infrastructure (27%)

Design an administrative model.

- Design considerations including user rights, built-in groups, and end-user self-service portal
- Design a delegation of administration structure for Microsoft System Center 2012

Design a monitoring strategy.

- Design considerations including monitoring servers using Audit Collection Services (ACS), performance monitoring, centralized monitoring, and centralized reporting
- Implement and optimize System Center 2012 - Operations Manager management packs
- Plan for monitoring Active Directory

Design an updates infrastructure.

- Design considerations including Windows Server Update Services (WSUS), System Center 2012 - Configuration Manager, and cluster-aware updating
- Design and configure Virtual Machine Manager for software update management
- Update VDI desktop images

Implement automated remediation.

- Create an Update Baseline in Virtual Machine Manager
- Implement a Desired Configuration Management (DCM) Baseline
- Implement Virtual Machine Manager integration with Operations Manager
- Configure Virtual Machine Manager to move a VM dynamically based on policy
- Integrate System Center 2012 for automatic remediation into your existing Enterprise Infrastructure

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Plan and Implement a Highly Available Enterprise Infrastructure (26%)

Plan and implement failover clustering.

- Plan for multi-node and multi-site clustering
- Design considerations including redundant networks, network priority settings, resource failover and failback, heartbeat and DNS settings, Quorum configuration, and storage placement and replication

Plan and implement highly available network services.

- Plan for and configure Network Load Balancing (NLB)
- Design considerations including fault-tolerant networking, multicast vs. Unicast configuration, state management, and automated deployment of NLB using Virtual Machine Manager service templates

Plan and implement highly available storage solutions.

- Plan for and configure storage spaces and storage pools
- Design highly available, multi-replica DFS namespaces
- Plan for and configure multi-path I/O, including Server Core
- Configure highly available iscsi Target and isns Server

Plan and implement highly available server roles.

- Plan for a highly available Dynamic Host Configuration Protocol (DHCP) Server, Hyper-V clustering, Continuously Available File Shares, and a DFS Namespace Server
- Plan for and implement highly available applications, services, and scripts using Generic Application, Generic Script, and Generic Service clustering roles

Plan and implement a business continuity and disaster recovery solution.

- Plan a backup and recovery strategy
- Planning considerations including Active Directory domain and forest recovery, Hyper-V replica, domain controller restore and cloning, and Active Directory object and container restore using authoritative restore and Recycle Bin

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Plan and Implement a Server Virtualization Infrastructure (26%)

Plan and implement virtualization hosts.

- Plan for and implement delegation of virtualization environment (hosts, services, and vms), including self-service capabilities
- Plan and implement multi-host libraries including equivalent objects
- Plan for and implement host resource optimization
- Integrate third-party virtualization platforms

Plan and implement virtualization guests.

- Plan for and implement highly available vms
- Plan for and implement guest resource optimization including smart page file, dynamic memory, and remotefx
- Configure placement rules
- Create Virtual Machine Manager templates

Plan and implement virtualization networking.

- Plan for and configure Virtual Machine Manager logical networks
- Plan for and configure IP address and MAC address settings across multiple Hyper-V hosts including IP virtualization
- Plan for and configure virtual network optimization

Plan and implement virtualization storage.

- Plan for and configure Hyper-V host storage including stand-alone and clustered setup using SMB 2.2 and CSV
- Plan for and configure Hyper-V guest storage including virtual Fibre Channel, iscsi, and pass-through disks
- Plan for storage optimization

Plan and implement virtual guest movement.

- Plan for and configure live, SAN, and network migration between Hyper-V hosts
- Plan for and manage P2V and V2V

Manage and maintain a server virtualization infrastructure.

- Manage dynamic optimization and resource optimization
- Manage Operations Manager integration using PRO Tips
- Automate VM software and configuration updates using service templates
- Maintain library updates

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Design and Implement Identity and Access Solutions (21%)

Design a Certificate Services infrastructure.

- Design a multi-tier Certificate Authority (CA) hierarchy with offline root CA
- Plan for multi-forest CA deployment
- Plan for Certificate Enrollment Web Services
- Plan for network device enrollment
- Plan for certificate validation and revocation
- Plan for disaster recovery
- Plan for trust between organizations

Implement and manage a Certificate Services infrastructure.

- Configure and manage offline root CA
- Configure and manage Certificate Enrollment Web Services
- Configure and manage Network Device Enrollment Services
- Configure Online Certificates Status Protocol responders
- Migrate CA
- Implement administrator role separation
- Implement and manage trust between organizations
- Monitor CA health

Implement and manage certificates.

- Manage certificate templates
- Implement and manage deployment, validation, and revocation
- Manage certificate renewal including Internet-based clients
- Manage certificate deployment and renewal to network devices
- Configure and manage key archival and recovery

Design and implement a federated identity solution.

- Plan for and implement claims-based authentication including planning and implementing Relying Party Trusts
- Plan for and configure Claims Provider Trust rules
- Plan for and configure attribute stores including Active Directory Lightweight Directory Services (AD LDS)
- Plan for and manage Active Directory Federation Services (AD FS) certificates
- Plan for Identity Integration with Cloud services

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Design and implement Active Directory Rights Management Services (AD RMS).

- Plan for highly available AD RMS deployment
- Manage AD RMS Service Connection Point
- Plan for and manage AD RMS client deployment
- Manage Trusted User Domains
- Manage Trusted publishing domains
- Manage Federated Identity support
- Manage Distributed and Archived Rights Policy templates
- Configure Exclusion Policies
- Decommission AD RMS