

# 70-410 Exam

---

## 1 - Install and Configure Servers

### 1.1 - Install Servers

- Plan for a server installation
- Plan for server roles
- Plan for a server upgrade
- Install Server Core
- Optimize resource utilization by using Features on Demand
- Migrate roles from previous versions of Windows Server

### 1.2 - Configure Servers

- Configure server core
- Delegate administration
- Add and remove features in offline images
- Deploy roles on remote servers
- Convert Server Core to/from full GUI
- Configure services
- Configure NIC teaming
- Install and configure Windows PowerShell Desired State Configuration (DSC)

### 1.3 - Configure Local Storage

- Design storage spaces
- Configure basic and dynamic disks
- Configure master boot record (MBR) and GUID partition table (GPT) disks
- Manage volumes
- Create and mount virtual hard disks (VHDs)
- Configure storage pools and disk pools
- Create storage pools by using disk enclosures

## 2 - Configure Server Roles and Features

### 2.1 - Configure File and Share Access

- Create and configure shares
- Configure share permissions
- Configure offline files
- Configure NTFS permissions
- Configure access-based enumeration (ABE)
- Configure Volume Shadow Copy Service (VSS)
- Configure NTFS quotas
- Create and configure Work Folders

## 2.2 - Configure Print and Document Services

- Configure the Easy Print print driver
- Configure Enterprise Print Management
- Configure drivers
- Configure printer pooling
- Configure print priorities
- Configure printer permissions

## 2.3 - Configure Servers for Remote Management

- Configure WinRM
- Configure down-level server management
- Configure servers for day-to-day management tasks
- Configure multi-server management
- Configure Server Core
- Configure Windows Firewall
- Manage non-domain joined servers

# 3 - Configure Hyper-V

## 3.1 - Create and Configure Virtual Machine Settings

- Configure dynamic memory
- Configure smart paging
- Configure Resource Metering
- Configure guest integration services
- Create and configure Generation 1 and 2 virtual machines
- Configure and use enhanced session mode
- Configure RemoteFX

## 3.2 - Create and Configure Virtual Machine Storage

- Create VHDs and VHDX
- Configure differencing drives
- Codify VHDs
- Configure pass-through disks
- Manage checkpoints
- Implement a virtual Fibre Channel adapter
- Configure storage Quality of Service

## 3.3 - Create and Configure Virtual Networks

- Configure Hyper-V virtual switches
- Optimise network performance
- Configure MAC addresses
- Configure network isolation
- Configure synthetic and legacy virtual network adapters
- Configure NIC teaming in virtual machines

## 4 - Deploy and Configure Core Network Services

### 4.1 - Configure IPv4 and IPv6 Addressing

- Configure IP address options
- Configure IPv4 or IPv6 subnetting
- Configure supernetting
- Configure interoperability between IPv4 and IPv6
- Configure Intra-site Automatic Tunnel Addressing Protocol (ISATAP)
- Configure Teredo

### 4.2 - Deploy and Configure Dynamic Host Configuration Protocol (DHCP) Service

- Create and configure scopes
- Configure a DHCP reservation
- Configure DHCP options
- Configure client and server for PXE boot
- Configure DHCP relay agent
- Authorise DHCP server

### 4.3 - Deploy and Configure DNS Service

- Configure Active Directory integration of primary zones
- Configure forwarders
- Configure Root Hints
- Manage DNS cache
- Create A and PTR resource records

## 5 - Install and Administer Active Directory

### 5.1 - Install Domain Controllers

- Add or remove a domain controller from a domain
- Upgrade a domain controller
- Install Active Directory Domain Services (AD DS) on a Server Core installation
- Install a domain controller from Install from Media (IFM)
- Resolve DNS SRV record registration issues
- Configure a global catalogue server
- Deploy Active Directory infrastructure as a service (IaaS) in Microsoft Azure

### 5.2 - Create and Manage Active Directory Users and Computers

- Automate the creation of Active Directory accounts
- Create, copy, configure and delete users and computers
- Configure templates; perform bulk Active Directory operations
- Configure user rights; offline domain join
- Manage inactive and disabled accounts

### 5.3 - Create and manage Active Directory groups and organisational units (OUs)

- Configure group nesting
- Convert groups, including security, distribution, universal, domain local and domain global
- Manage group membership using Group Policy
- Enumerate group membership
- Delegate the creation and management of Active Directory objects
- Manage default Active Directory containers
- Create, copy, configure and delete groups and OUs

## 6 - Create and Manage Group Policy

### 6.1 - Create Group Policy objects (GPOs)

- Configure a Central Store
- Manage starter GPOs
- Configure GPO links
- Configure multiple local Group Policies

### 6.2 - Configure Security Policies

- Configure User Rights Assignment
- Configure Security Options settings
- Configure Security templates
- Configure Audit Policy
- Configure Local Users and Groups
- Configure User Account Control (UAC)

### 6.3 - Configure Application Restriction Policies

- Configure rule enforcement
- Configure AppLocker rules
- Configure Software Restriction Policies

### 6.4 - Configure Windows Firewall

- Configure rules for multiple profiles using Group Policy
- Configure connection security rules
- Configure Windows Firewall to allow or deny applications, scopes, ports, and users
- Configure authenticated firewall exceptions
- Import and export settings