# Installing and Configuring Windows Server 2012

# Exam 70-410

**Skills Being Measured**

This exam measures your ability to accomplish the technical tasks listed below.The percentages indicate the relative weight of each major topic area on the exam.The higher the percentage, the more questions you are likely to see on that content area on the exam.

The information after "**This objective may include but is not limited to**" is intended to further define or scope the objective by describing the types of skills and topics that may be tested for the objective. However, it is not an exhaustive list of skills and topics that could be included on the exam for a given skill area. You may be tested on other skills and topics related to the objective that are not explicitly listed here.

Install and Configure Servers (17%)

- Install servers
    - This objective may include but is not limited to: 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
- Configure servers
    - This objective may include but is not limited to: 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
- Configure local storage
    - This objective may include but is not limited to: Design storage spaces; configure basic and dynamic disks; configure MBR and GPT disks; manage volumes; create and mount virtual hard disks (VHDs); configure storage pools and disk pools

Configure Server Roles and Features (16%)

- Configure file and share access
    - This objective may include but is not limited to: 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
- Configure print and document services
    - This objective may include but is not limited to: Configure the Easy Print print driver; configure Enterprise Print Management; configure drivers; configure printer pooling; configure print priorities; configure printer permissions
- Configure servers for remote management

- This objective may include but is not limited to: 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

3. Configure Hyper-V (17%)

- Create and configure virtual machine settings
    - This objective may include but is not limited to: Configure dynamic memory; configure smart paging; configure Resource Metering; configure guest integration services
- Create and configure virtual machine storage
    - This objective may include but is not limited to: Create VHDs and VHDX; configure differencing drives; modify VHDs; configure pass-through disks; manage snapshots; implement a virtual Fibre Channel adapter
- Create and configure virtual networks
    - This objective may include but is not limited to: Implement Hyper-V Network Virtualization; configure Hyper-V virtual switches; optimize network performance; configure MAC addresses; configure network isolation; configure synthetic and legacy virtual network adapters

Deploy and Configure Core Network Services (16%)

- Configure IPv4 and IPv6 addressing
    - This objective may include but is not limited to: Configure IP address options; configure subnetting; configure supernetting; configure interoperability between IPv4 and IPv6; configure ISATAP; configure Teredo
- Deploy and configure Dynamic Host Configuration Protocol (DHCP) service
    - This objective may include but is not limited to: Create and configure scopes; configure a DHCP reservation; configure DHCP options; configure client and server for PXE boot; configure DHCP relay agent; authorize DHCP server
- Deploy and configure DNS service
    - This objective may include but is not limited to: Configure Active Directory integration of primary zones; configure forwarders; configure Root Hints; manage DNS cache; create A and PTR resource records

Install and Administer Active Directory (18%)

- Install domain controllers
    - This objective may include but is not limited to: 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 catalog server
- Create and manage Active Directory users and computers
    - This objective may include but is not limited to: 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

- Create and manage Active Directory groups and organizational units (OUs)
  - o This objective may include but is not limited to: 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

Create and Manage Group Policy (16%)

- Create Group Policy objects (GPOs)
  - o This objective may include but is not limited to: Configure a Central Store; manage starter GPOs; configure GPO links; configure multiple local group policies; configure security filtering
- Configure security policies
  - o This objective may include but is not limited to: Configure User Rights Assignment; configure Security Options settings; configure Security templates; configure Audit Policy; configure Local Users and Groups; configure User Account Control (UAC)
- Configure application restriction policies
  - o This objective may include but is not limited to: Configure rule enforcement; configure Applocker rules; configure Software Restriction Policies
- Configure Windows Firewall
  - o This objective may include but is not limited to: 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