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70-410:

Installing and Configuring Windows Server 2012

The following tables itemize changes to Exam 70-410. These changes will be made in January 2014 to include updates that relate to Windows Server 2012 R2 tasks.

1. **Install and configure servers (17%)**

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| **Tasks currently measured** | **Tasks to be added/changed in January 2014** |
| **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 | No change |
| **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) |
| **Configure local storage**  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 | Create storage pools by using disk enclosures |

1. **Configure server roles and features (17%)**

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| **Tasks currently measured** | **Tasks to be added/changed in January 2014** |
| **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 |
| **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 | No change |
| **Configure servers for remote management**  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 |

1. **Configure Hyper-V (18%)**

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| **Tasks currently measured** | **Tasks to be added/changed in January 2014** |
| **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 2virtual machines; configure and use enhanced session mode |
| **Create and configure virtual machine storage**  Create VHDs and VHDX; configure differencing drives; modify VHDs; configure pass-through disks; manage snapshots; implement a virtual Fibre Channel adapter | Manage checkpoints; configure storage Quality of Service (QoS) |
| **Create and configure virtual networks**  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 | Configure network interface card (NIC) teaming in virtual machines |

1. **Deploy and configure core network services (17%)**

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| **Tasks currently measured** | **Tasks to be added/changed in January 2014** |
| **Configure IPv4 and IPv6 addressing**  Configure IP address options; configure subnetting; configure supernetting; configure interoperability between IPv4 and IPv6; configure ISATAP; configure Teredo | No change |
| **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; authorize DHCP server | No change |
| **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 | No change |

1. **Install and administer Active Directory (14%)**

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| --- | --- |
| **Tasks currently measured** | **Tasks to be added/changed in January 2014** |
| **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 catalog server | Deploy Active Directory infrastructure as a service (IaaS) in Windows Azure |
| **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 | No change |
| **Create and manage Active Directory groups and organizational 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 | No change |

1. **Create and manage Group Policy (16%)**

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| **Tasks currently measured** | **Tasks to be added/changed in January 2014** |
| **Create Group Policy objects (GPOs)**  Configure a Central Store; manage starter GPOs; configure GPO links; configure multiple local group policies; configure security filtering | No change |
| **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) | No change |
| **Configure application restriction policies**  Configure rule enforcement; configure AppLocker rules; configure Software Restriction Policies | No change |
| **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 | No change |