

# MS 70-411 Exam Objectives

## *Administering Windows Server 2012 R2*

Below are the exam objectives for *Administering Windows Server 2012 R2 – Exam 70-411*

Tasks measured as per latest update implemented in January of 2014. This revision brings to 116 the total number of sub-objectives. The percentages in parenthesis are the approximate number of questions for that objective out of the typically 50 – 55 total number of questions presented at the exam.

## I. Deploy, manage, and maintain servers (15–20%)

### 1. Deploy and manage server images

- Install the Windows Deployment Services (WDS) role
- Configure and manage boot, install, and discover images
- Update images with patches, hotfixes, and drivers
- Install features for offline images
- Configure driver groups and packages

### 2. Implement patch management

- Install and configure the Windows Server Update Services (WSUS) role
- Configure group policies for updates
- Configure client-side targeting
- Configure WSUS synchronization
- Configure WSUS groups
- Manage patch management in mixed environments

### 3. Monitor servers

- Configure Data Collector Sets (DCS)
- Configure alerts
- Monitor real-time performance
- Monitor virtual machines (VMs)
- Monitor events
- Configure event subscriptions
- Configure network monitoring
- Schedule performance monitoring

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## II. Configure File and Print Services (15–20%)

### 1. Configure Distributed File System (DFS)

- Install and configure DFS namespaces
- Configure DFS Replication Targets
- Configure Replication Scheduling

- Configure Remote Differential Compression settings
- Configure staging
- Configure fault tolerance
- Clone a DFS database
- Recover DFS databases
- Optimize DFS replication

## **2. Configure File Server Resource Manager (FSRM)**

- Install the FSRM role service
- Configure quotas
- Configure file screens
- Configure reports
- Configure file management tasks

## **3. Configure file and disk encryption**

- Configure BitLocker encryption
- Configure the Network Unlock feature
- Configure BitLocker policies
- Configure the EFS recovery agent
- Manage EFS and BitLocker certificates
- Including backup and restore

## **4. Configure advanced audit policies**

- Implement auditing using Group Policy and AuditPol.exe
- Create expression-based audit policies
- Create removable device audit policies

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# **III. Configure network services and access (15–20%)**

## **1. Configure DNS zones**

- Configure primary and secondary zones
- Configure stub zones
- Configure conditional forwards
- Configure zone and conditional forward storage in Active Directory
- Configure zone delegation
- Configure zone transfer settings
- Configure notify settings

## **2. Configure DNS records**

- Create and configure DNS Resource Records (RR)
- Including A, AAAA, PTR, SOA, NS, SRV, CNAME, and MX records
- Configure zone scavenging

- Configure record options, including Time To Live (TTL) and weight
- Configure round robin
- Configure secure dynamic updates

### **3. Configure virtual private network (VPN) and routing**

- Install and configure the Remote Access role
- Implement Network Address Translation (NAT)
- Configure VPN settings
- Configure remote dial-in settings for users
- Configure routing
- Configure Web Application proxy in passthrough mode

### **4. Configure DirectAccess**

- Implement server requirements
- Implement client configuration
- Configure DNS for Direct Access
- Configure certificates for Direct Access

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## **IV. Configure a Network Policy Server (NPS) infrastructure (10–15%)**

### **1. Configure Network Policy Server**

- Configure a RADIUS server
  - Including RADIUS proxy
- Configure RADIUS clients
- Configure NPS templates
- Configure RADIUS accounting
- Configure certificates

### **2. Configure NPS policies**

- Configure connection request policies
- Configure network policies for VPN clients (multilink and bandwidth allocation, IP filters, encryption, IP addressing)
- Import and export NPS policies

### **3. Configure Network Access Protection (NAP)**

- Configure System Health Validators (SHVs)
- Configure health policies
- Configure NAP enforcement using DHCP and VPN
- Configure isolation and remediation of non-compliant computers using DHCP and VPN,
- Configure NAP client settings

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## V. Configure and manage Active Directory (10–15%)

### 1. Configure service authentication

- Create and configure Service Accounts
- Create and configure Group Managed Service Accounts
- Configure Kerberos delegation, manage Service Principal Names (SPNs)
- Configure virtual accounts

### 2. Configure domain controllers

- Transfer and seize operations master roles
- Install and configure a read-only domain controller (RODC)
- Configure domain controller cloning

### 3. Maintain Active Directory

- Back up Active Directory and SYSVOL
- Manage Active Directory offline
- Optimize an Active Directory database
- Clean up metadata
- Configure Active Directory snapshots
- Perform object- and container-level recovery
- Perform Active Directory restore
- Configure and restore objects by using the Active Directory Recycle Bin

### 4. Configure account policies

- Configure domain and local user password policy settings
  - Configure and apply Password Settings Objects (PSOs)
  - Delegate password settings management
  - Configure account lockout policy settings
  - Configure Kerberos policy settings
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## VI. Configure and manage Group Policy (15–20%)

### 1. Configure Group Policy processing

- Configure processing order and precedence
- Configure blocking of inheritance
- Configure enforced policies
- Configure security filtering and Windows Management Instrumentation (WMI) filtering
- Configure loopback processing
- Configure and manage slow-link processing and Group Policy caching
- Configure client-side extension (CSE) behavior
- Force Group Policy Update

### 2. Configure Group Policy settings

- Configure settings, including software installation, folder redirection, scripts, and administrative template settings
- Import security templates
- Import custom administrative template file
- Configure property filters for administrative templates

**3. Manage Group Policy objects (GPOs)**

- Back up, import, copy, and restore GPOs
- Create and configure Migration Table
- Reset default GPOs
- Delegate Group Policy management

**4. Configure Group Policy preferences (GPP)**

- Configure GPP settings, including printers, network drive mappings, power options, custom registry settings, Control Panel settings, Internet Explorer settings, file and folder deployment, and shortcut deployment
- Configure item-level targeting