

## Skills measured by Exam 70-293

### Planning and Implementing Server Roles and Server Security

Configure security for servers that are assigned specific roles.

Plan a secure baseline installation.

- Plan a strategy to enforce system default security settings on new systems.
- Identify client operating system default security settings.
- Identify all server operating system default security settings.

Plan security for servers that are assigned specific roles. Roles might include domain controllers, Web servers, database servers, and mail servers.

- Deploy the security configuration for servers that are assigned specific roles.
- Create custom security templates based on server roles.

Evaluate and select the operating system to install on computers in an enterprise.

- Identify the minimum configuration to satisfy security requirements.

### Planning, Implementing, and Maintaining a Network Infrastructure

Plan a TCP/IP network infrastructure strategy.

- Analyze IP addressing requirements.
- Plan an IP routing solution.
- Create an IP subnet scheme.

Plan and modify a network topology.

- Plan the physical placement of network resources.
- Identify network protocols to be used.

Plan an Internet connectivity strategy.

Plan network traffic monitoring. Tools might include Network Monitor and System Monitor.

Troubleshoot connectivity to the Internet.

- Diagnose and resolve issues related to Network Address Translation (NAT).
- Diagnose and resolve issues related to name resolution cache information.
- Diagnose and resolve issues related to client configuration.

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Troubleshoot TCP/IP addressing.

- Diagnose and resolve issues related to client computer configuration.
- Diagnose and resolve issues related to DHCP server address assignment.

Plan a host name resolution strategy.

- Plan a DNS namespace design.
- Plan zone replication requirements.
- Plan a forwarding configuration.
- Plan for DNS security.
- Examine the interoperability of DNS with third-party DNS solutions.

Plan a NetBIOS name resolution strategy.

- Plan a WINS replication strategy.
- Plan NetBIOS name resolution by using the Lmhosts file.

Troubleshoot host name resolution.

- Diagnose and resolve issues related to DNS services.
- Diagnose and resolve issues related to client computer configuration.

### Planning, Implementing, and Maintaining Routing and Remote Access

Plan a routing strategy.

- Identify routing protocols to use in a specified environment.
- Plan routing for IP multicast traffic.

Plan security for remote access users.

- Plan remote access policies.
- Analyze protocol security requirements.
- Plan authentication methods for remote access clients.

Implement secure access between private networks.

- Create and implement an IPSec policy.

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Troubleshoot TCP/IP routing. Tools might include the route, tracert, ping, pathping, and netsh commands and Network Monitor.

### Planning, Implementing, and Maintaining Server Availability

Plan services for high availability .

- Plan a high-availability solution that uses clustering services.
- Plan a high-availability solution that uses Network Load Balancing.

Identify system bottlenecks, including memory, processor, disk, and network related bottlenecks.

- Identify system bottlenecks by using System Monitor.

Implement a cluster server.

- Recover from cluster node failure.

Manage Network Load Balancing. Tools might include the Network Load Balancing Monitor Microsoft Management Console (MMC) snap-in and the WLBS cluster control utility.

Plan a backup and recovery strategy.

- Identify appropriate backup types. Methods include full, incremental, and differential.
- Plan a backup strategy that uses volume shadow copy.
- Plan system recovery that uses Automated System Recovery (ASR).

### Planning and Maintaining Network Security

Configure network protocol security.

- Configure protocol security in a heterogeneous client computer environment.
- Configure protocol security by using IPSec policies.

Configure security for data transmission.

- Configure IPSec policy settings.

Plan for network protocol security.

- Specify the required ports and protocols for specified services.
- Plan an IPSec policy for secure network communications.

Plan secure network administration methods.

- Create a plan to offer Remote Assistance to client computers.

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- Plan for remote administration by using Terminal Services.

Plan security for wireless networks.

Plan security for data transmission.

- Secure data transmission between client computers to meet security requirements.
- Secure data transmission by using IPSec.

Troubleshoot security for data transmission. Tools might include the IP Security Monitor MMC snap-in and the Resultant Set of Policy (RSOP) MMC snap-in.

### Planning, Implementing, and Maintaining Security Infrastructure.

Configure Active Directory directory service for certificate publication.

Plan a public key infrastructure (PKI) that uses Certificate Services.

- Identify the appropriate type of certificate authority to support certificate issuance requirements.
- Plan the enrollment and distribution of certificates.
- Plan for the use of smart cards for authentication.

Plan a framework for planning and implementing security.

- Plan for security monitoring.
- Plan a change and configuration management framework for security.

Plan a security update infrastructure. Tools might include Microsoft Baseline Security Analyzer and Microsoft Software Update Services.