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**ExamWise
For
Windows 2000 Network Infrastructure
Examination 70-216
Implementing and Administering a Microsoft
Windows 2000 Network Infrastructure**



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Author

Jada Brock-Soldavini MCSE

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Chapter 1: Managing DNS in a Windows 2000 Network Infrastructure

The objective of this chapter is to provide the reader with an understanding of the following:

1. Install, configure, and troubleshoot DNS.
2. Install the DNS Server service.
3. Configure a root name server.
4. Configure zones.
5. Configure a caching-only server.
6. Configure a DNS client.
7. Configure zones for dynamic updates.
8. Test the DNS Server service.
9. Implement a delegated zone for DNS.
10. Manually create DNS resource records.
11. Manage and monitor DNS.

1. What two things must you do before installing DNS service on a Windows 2000 server? (Choose 2)
 - A. Install Active Directory on the server.
 - B. Configure the computer with a static IP address.
 - C. Configure the computer with a DNS domain name.
 - D. Install DHCP services on the computer.
-
2. What are the three types of zones supported by DNS in Windows 2000? (Choose 3)
 - A. Primary zones
 - B. Active Directory integrated zones
 - C. Standard primary zones
 - D. Secondary zones
 - E. Standard secondary zones



Chapter 1:

1. What two things must you do before installing DNS service on a Windows 2000 server? (Choose 2)
 - A. Install Active Directory on the server.
 - *B. Configure the computer with a static IP address.**
 - *C. Configure the computer with a DNS domain name.**
 - D. Install DHCP services on the computer.

Explanation: Before the administrator can install DNS on a Windows 2000 Server, the server must be assigned a static IP address and must be given a host name and a domain name. The DNS service install then installs the DNS server service, starts the service and installs the DNS console. Additionally, the appropriate registry entry is made for the startup of the DNS service and DNS database files are placed in the newly created folder WINNT \System32\DNS. There are two ways to install the DNS service: during the Windows 2000 installation or using Add/Remove Programs-/Add/Remove Windows Components-Networking Services. DNS must be installed prior to Active Directory.

2. What are the three types of zones supported by DNS in Windows 2000? (Choose 3)
 - A. Primary zones
 - *B. Active Directory integrated zones**
 - *C. Standard primary zones**
 - D. Secondary zones
 - *E. Standard secondary zones**

Explanation: There are two ways to install the DNS service: during the Windows 2000 installation or using Add/Remove Programs-/Add/Remove Windows Components-Networking Services. DNS must be installed prior to Active Directory. DNS services in Windows 2000 support three types of zones: standard primary, standard secondary and Active Directory integrated. A standard primary zone is the master copy of the zone database and is stored as a standard text file. A standard secondary is a copy (or replica) of the master database and are read-only. Active Directory integrated zones are zones that are stored in Active Directory and so are replicated during AD replication.



3. What two events can trigger a zone transfer in DNS? (Choose 2)

- A. The secondary server queries a master server for changes in the zone database.
 - B. The secondary server sends a notification of a change to the master server.
 - C. The master server queries its secondary servers for changes in the zone database.
 - D. The master server notifies the secondary servers about a change in the zone database.
-

4. Where is the zone database stored for a standard primary zone in Windows 2000?

- A. In an Active Directory object
- B. In the WINNT \System32\DNS folder
- C. In the DNS server Active Directory object
- D. In the WINNT \System32\etc folder



Chapter 1:

3. What two events can trigger a zone transfer in DNS? (Choose 2)

- *A. **The secondary server queries a master server for changes in the zone database.**
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- A. In an Active Directory object
- *B. **In the WINNT \System32\DNS folder**
- C. In the DNS server Active Directory object
- D. In the WINNT \System32\etc folder

Explanation: DNS services in Windows 2000 support three types of zones: standard primary, standard secondary and Active Directory integrated. A standard primary zone is the master copy of the zone database and is stored as a standard text file and in the newly created folder WINNT \System32\DNS. A standard secondary is a copy (or replica) of the master database and are read-only. Active Directory integrated zones are zones that are stored in Active Directory and so are replicated during AD replication. Zone transfers in DNS are triggered two ways: a master server sends a change notification to the secondary servers, or the secondary server queries the master for changes in the master database.



5. Where is the zone database stored for an Active Directory integrated zone in Windows 2000?
- A. In an Active Directory object
 - B. In the WINNT \System32\DNS folder
 - C. In the Active Directory DNS Zone object
 - D. In the WINNT \System32\etc folder
-

6. What two events occur in Dynamic DNS (DDNS)? (Choose 2)
- A. The client computer automatically queries DNS for a dynamic domain name.
 - B. The DHCP client automatically updates an A resource record on the DNS Server.
 - C. The DHCP server obtains a domain or host name for the DHCP client.
 - D. The DHCP server updates the PTR record in DNS.



Chapter 1:

5. Where is the zone database stored for an Active Directory integrated zone in Windows 2000?

***A. In an Active Directory object**

- B. In the WINNT \System32\DNS folder
 - C. In the Active Directory DNS Zone object
 - D. In the WINNT \System32\etc folder
-

6. What two events occur in Dynamic DNS (DDNS)? (Choose 2)

A. The client computer automatically queries DNS for a dynamic domain name.

***B. The DHCP client automatically updates an A resource record on the DNS Server.**

C. The DHCP server obtains a domain or host name for the DHCP client.

***D. The DHCP server updates the PTR record in DNS.**

Explanation: DNS services in Windows 2000 support three types of zones: standard primary, standard secondary and Active Directory integrated. A standard primary zone is the master copy of the zone database and is stored as a standard text file and in the newly created folder WINNT \System32\DNS. A standard secondary is a copy (or replica) of the master database and are read-only. Active Directory integrated zones are zones that are stored in Active Directory and so are replicated during AD replication. Zone transfers in DNS are triggered two ways: a master server sends a change notification to the secondary servers, or the secondary server queries the master for changes in the master database. Windows 2000 includes in DNS the ability to accept dynamic updates rather than just manual updates to the zone database. When a DHCP server leases an address, the client updates the A record in DNS and the server updates the PTR record in DNS - automatically.



7. What types of zones in Windows 2000 can be configured for secure dynamic updates?

- A. Standard primary zones
 - B. Standard secondary zones
 - C. Active Directory integrated zones
 - D. Master zones
-

8. What is the zone replication method that is new with Windows 2000 and allows for replication of only the changes made to the authoritative database?

- A. AXFR (Full-zone transfer)
- B. IXFR (Incremental zone transfer)
- C. DDNS (Dynamic DNS (DDNS))
- D. Replication Services



Chapter 1:

7. What types of zones in Windows 2000 can be configured for secure dynamic updates?
- A. Standard primary zones
 - B. Standard secondary zones
 - *C. Active Directory integrated zones**
 - D. Master zones
-

8. What is the zone replication method that is new with Windows 2000 and allows for replication of only the changes made to the authoritative database?
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 - *B. IXFR (Incremental zone transfer)**
 - C. DDNS (Dynamic DNS (DDNS))
 - D. Replication Services

Explanation: DNS services in Windows 2000 support three types of zones: standard primary, standard secondary and Active Directory integrated. A standard primary zone is the master copy of the zone database and is stored as a standard text file and in the newly created folder WINNT \System32\DNS. A standard secondary is a copy (or replica) of the master database and are read-only. Active Directory integrated zones are zones that are stored in Active Directory and so are replicated during AD replication. Zone transfers in DNS are triggered two ways: a master server sends a change notification to the secondary servers, or the secondary server queries the master for changes in the master database. Zone transfers may occur using AXFR, which is a full-zone transfer or IXFR (incremental zone transfer), which only replicates the changes to the secondary zone. IXFR is new in Windows 2000.



9. What are two methods for testing the DNS service in Windows 2000? (Choose 2)

- A. DNS Console
- B. Active Directory Users and Computers
- C. Nslookup
- D. DNS Manager



Chapter 1:

9. What are two methods for testing the DNS service in Windows 2000? (Choose 2)

*A. DNS Console

B. Active Directory Users and Computers

*C. Nslookup

D. DNS Manager

Explanation: DNS services in Windows 2000 support three types of zones: standard primary, standard secondary and Active Directory integrated. A standard primary zone is the master copy of the zone database and is stored as a standard text file and in the newly created folder WINNT \System32\DNS. A standard secondary is a copy (or replica) of the master database and are read-only. Active Directory integrated zones are zones that are stored in Active Directory and so are replicated during AD replication. Zone transfers in DNS are triggered two ways: a master server sends a change notification to the secondary servers, or the secondary server queries the master for changes in the master database. Windows 2000 includes in DNS the ability to accept dynamic updates rather than just manual updates to the zone database. When a DHCP server leases an address, the client updates the A record in DNS and the server updates the PTR record in DNS - automatically. Finally, there are two types of queries supported in Windows 2000 DNS: simple queries, which use a DNS client to query a local DNS server, and recursive where the client request must be forwarded from one DNS server to another to complete the query. DNS can be tested either using nslookup, which supports both interactive and non-interactive modes, and the DNS console.



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