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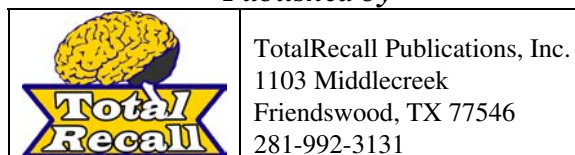
**ExamInsight
For
Windows 2000 Network Infrastructure
Examination 70-216
Implementing and Administering a
Microsoft® Windows® 2000 Network
Infrastructure**



**CD-ROM practice exam provided by
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A Quick overview of the book chapters:

Chapter 1: Managing DNS	1
Chapter 2: Managing DHCP	57
Chapter 3: Managing Remote Access	103
Chapter 4: Managing Network Protocols	155
Chapter 5: Managing WINS	223
Chapter 6: Managing IP Routing	299
Chapter 7: Network Address Translation (NAT)	363
Chapter 8: Certificate Services	395
Appendix A	457
Index	595
Money Back Book Guarantee	599
Microsoft 70-216 Practice Exam Offer	600

Chapter 1: Managing DNS

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

- The Windows 2000 DNS Service Structure
- Windows 2000 DNS Components
- How Windows 2000 DNS works
- Configuring Windows DNS to work properly
- Managing Windows 2000 Server DNS service
- Monitoring Windows 2000 Server DNS service

Getting Ready (Questions.)

- 1) What is a Fully Qualified Domain Name?
 - 2) How many Zone Database Files a DNS Server contain?
 - 3) What is a Forward lookup Zone?
 - 4) What is a reverse lookup zone?
 - 5) What is Zone Delegation?
-



Getting Ready (Answers.)

- 1) A Fully Qualified Domain Name (FQDN) is a combination of the host's domain location and the host name.
 - 2) One Windows 2000 DNS Server can contain numerous Zone database files.
 - 3) A Forward lookup zone is used to resolve host names to IP Addresses.
 - 4) A Reverse lookup zone is used to resolve IP Addresses to host names.
 - 5) Zone delegation is used to distribute responsibility for query responses for a particular zone.
-

I Introduction

It is not a surprise that DNS is the first chapter of this study guide. When setting up your Windows 2000 Network you need to pay careful attention to the way you setup the Domain Name Service (DNS) on the server. When setting up DNS for your Network thinks of it as setting up the directory service for the yellow pages. For example, if you need to find a telephone number for someone, then you use your phone book to find the name with the telephone number listed to the side. DNS works in a similar way by resolving computer names to Internet Protocol (IP) Addresses on the Internet. Instead of typing the IP address 207.46.197.100 to reach Microsoft's web site, DNS matches www.microsoft.com to the IP address 207.46.197.100. It is much easier to remember simple names for web sites than trying to remember the IP Addresses for websites that you wish to visit. In DNS, clients are referred to as resolvers and the servers are referred to as name servers. DNS uses resolvers, name servers, and what is called the Domain Name Space to function. A query is sent by the resolver to the name server. If the request cannot be completed the name server will return either, the requested information, a pointer to another name server or a failure message in the case the query response cannot be completed.



DNS is used by Transmission Control Protocol (TCP) and User Datagram Protocol (UDP). It maps to the application layer seven of the OSI model. Before the implementation of DNS a HOSTS file, an ASCII text file specially formatted that contained all IP Addresses and computer names of people on the Internet was maintained. People who used the Internet would periodically download the file to their computer for computer name to IP address resolution. However, because the Internet began to expand, this way of name Resolution became too large of an administrative burden and DNS emerged.

Because Windows 2000 Networks use Active Directory, it relies heavily on DNS. When using Windows 2000 you can implement what is called Dynamic DNS (DDNS). This new type of DNS allows Administrators to easily make changes in DNS without the need to change the Zone file as was done when using the Windows NT 4.0 networking software. Workstations running on the Windows 2000 Network can change their configurations themselves if DDNS is implemented. For Administrators this is great news because you have no end user intervention.



II Managing DNS

A hierarchical naming system used for locating domain names on the Internet and on private TCP/IP networks. DNS provides a service for mapping DNS domain names to IP addresses, and vice versa. This allows users, computers, and applications to query the DNS to specify remote systems by fully qualified domain names rather than by IP addresses.

Install the DNS Server service.

Installing the DNS Server service is a simple task. Have your Windows 2000 Server CD-ROM available when installing this service.

Click on the Start Button | Settings | Control Panel | Add/Remove Programs. Figure 1-1 below shows this screen.

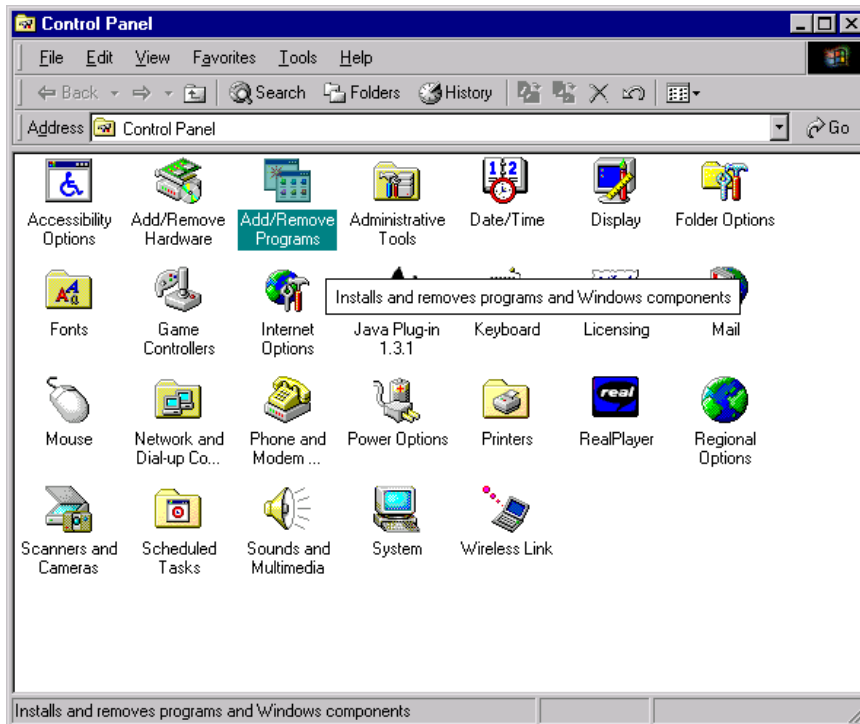


Figure 1-1: The Add/ Remove Programs option in Control Panel.



Double click on the Add/Remove programs and components button on the left side.

See Figure 1-2 below for this view.

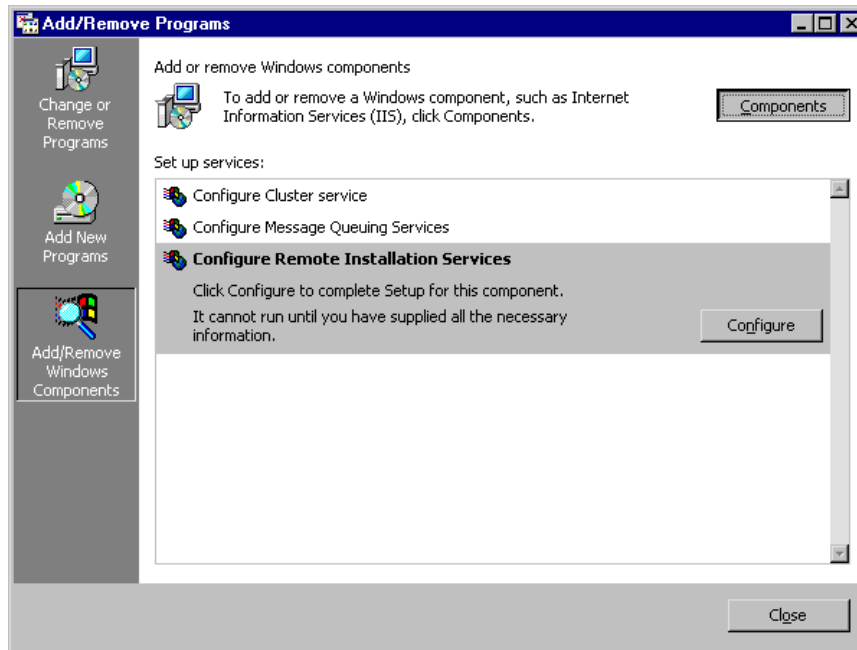


Figure 1-2: The Add Remove Windows Components in Windows 2000 Server.



6 Chapter 1: 70-216 Certification

On the right side of the page, choose the Components button.

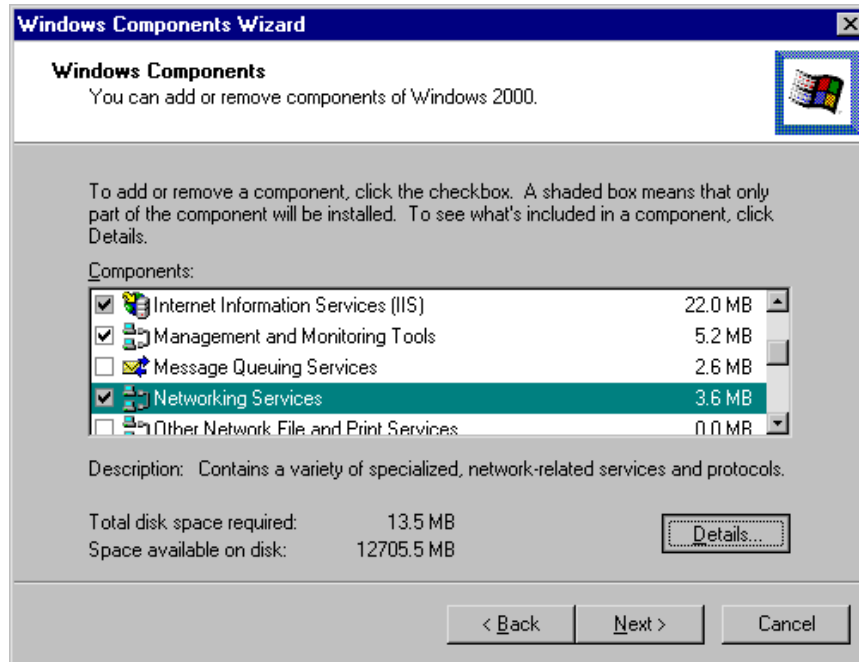


Figure 1-3: The Networking Services options in Add/Remove Components in Windows 2000 Server.



Check the box next to Networking Services and then choose the Details button.

Scroll to the Domain Name Service option from the list and click in the box as shown in Figure 1-4.

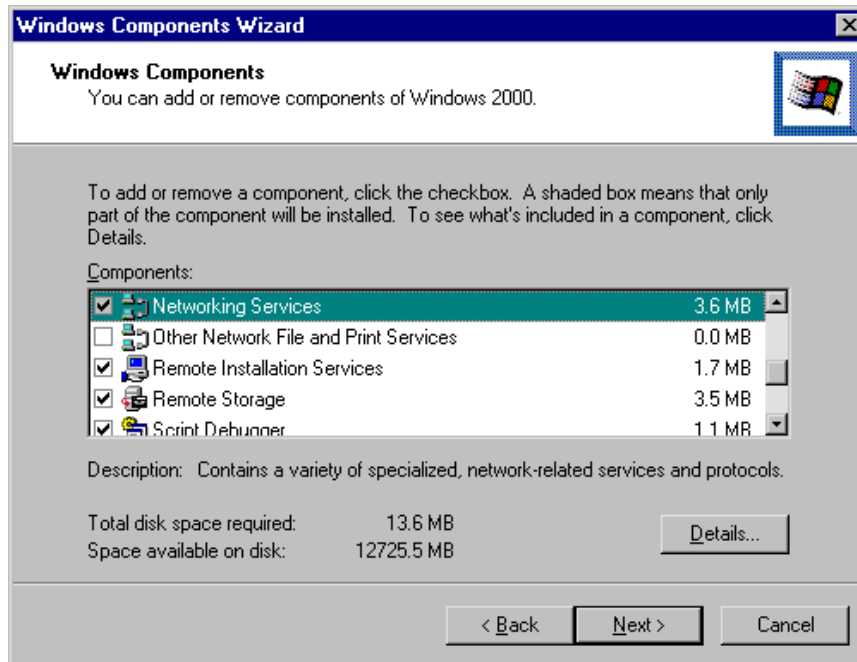


Figure 1-4: The Details option on the Network Services Dialog box.



8 Chapter 1: 70-216 Certification

Look in the Networking Services list and choose the Domain Name System (DNS) check box. Click on the OK button, then click the Next button. Be sure that other services are not checked.

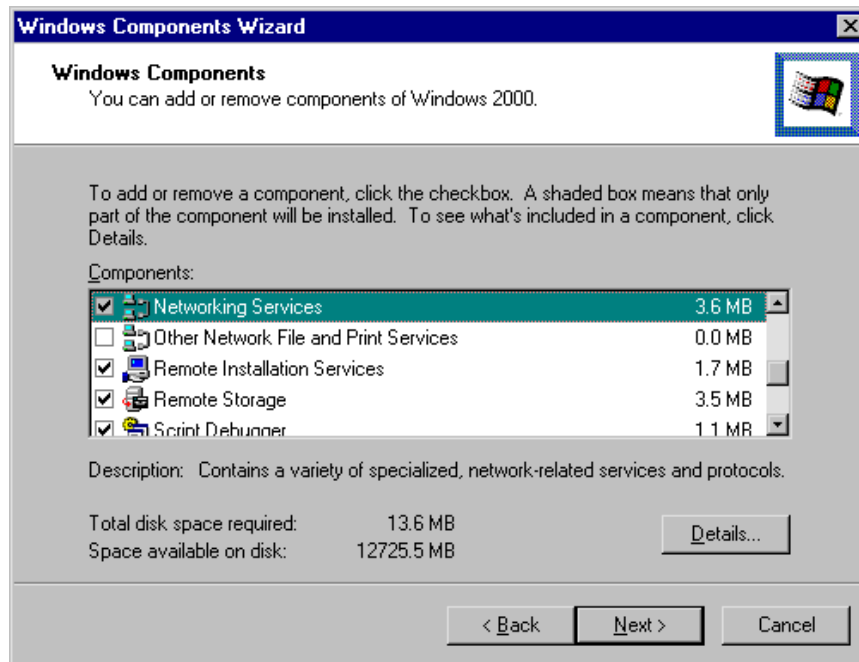


Figure 1-5: Installing the DNS service from the Networking Services options.

A Wizard will appear that will automatically install the service. When the last screen of the Windows components wizard appears, click the Finish button. After this task has been completed close the Add/Remove applet and DNS has been installed.

There are two ways that the Microsoft Windows 2000 DNS Server can be configured. One is by using the DNS console in Windows 2000 and the other is by manually editing the configuration files on the DNS Server. This next section will show you how to configure the DNS server using the DNS Console in Windows 2000.



Configure a root name server.

Using the DNS Console we will now configure DNS as a root name server. Open the DNS Console by clicking on Start | Programs | Administrative Tools and click on DNS. Figure 1-6 shows a view of the DNS console, which uses the Microsoft Management Console (MMC).

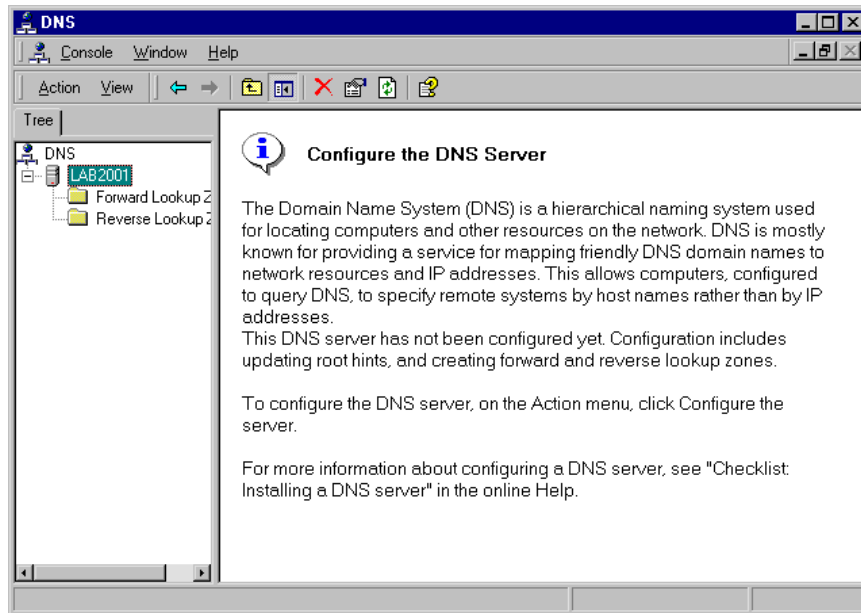


Figure 1-6: Configuring DNS using the DNS Console in Windows 2000 Server.

Before you begin to configure your DNS Server it is important that you understand what a zone is in DNS.



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