Get Network+ Certified Fast may include but is not limited to: network access policies

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In this chapter, Iâ€™ll cover a few topics youâ€™ve most likely spent a lot of time on already: naming conventions, network access principles, and IP addressing schemes. On the MCTS level, your experimentation with most of these technologies was very technical, as per the design of the certification exam. By now, you know how to subnet, you know your way around setting up a VPN connection, and you are generally pretty good at setting up DNS for zone forwarding and so forth.

On the MCITP Enterprise Administrator level, enterprise administration digs into the idea of creating a very robust design that allocates room for growth, allows a certain amount of ?exibility, and ?ts the overall infrastructural goals of the entire enterprise, rather than a small network. For our purposes in this chapter, this means Iâ€™ll blend all of these concepts together for the first time into one very large and multipurpose design. The network Iâ€™ll show you in this chapter will be hooked up and functioning and will incorporate all of the fun roles, features, and tech- nical ideas that youâ€™ve learned up until this point. By the end of this chapter, you should be reacquainted with the concepts youâ€™ve already seen in your early study and understand how these concepts can be blended together into a complex mesh.

When studying for the Microsoft 70-642 certification exam, you spent much of your time understanding how to administer and maintain a Windows network and the problems and challenges that can occur when doing so. Now, youâ€™ll take a broader look at the technolo- gies available and develop an overall scheme that you can deploy in your Windows-based environment. Youâ€™ll do this by using various addressing techniques, subnets, scopes, and variable-length subnet masking for host assignment.

Addressing Techniques

For the most part, you have used three different types of IP addressing techniques: auto- matic private IP addressing (APIPA), static, and dynamic (via DHCP).

APIPA

APIPA addressing is a Windows default MCSE Exams mechanism for assigning IP addresses when a DHCP server is unreachable. This means that, no matter what the situation, machines run- ning Windows will always have a logical address available to them within the 169.254.X.X

Network Addressing range. For the most part, other than trivia, this addressing scheme is used at the MCITP level only as a reference to machines that are not communicating properly with DHCP.

Static

Static , or manual, addressing is the process of manually assigning an IP address to a

machine based on a design created by an individual engineer or administrator. If network engineers could have their way, chances are that all IP addresses would be static. Unfor- tunately, in the modern day, that simply isn?t possible because of the sheer number of addresses that have to be assigned.

Dynamic

Dynamic addressing is a technique that takes advantage of the Dynamic Host Control Pro-

tocol (DHCP) role that can be added to Windows Server. DHCP then automatically assigns addresses to requesting client machines through a predetermined pool within your DHCP server de?ned by the administrator. At the enterprise level, this is normally the most heavily used and implemented standard because of the ease, ?exibility, and relatively equal ef?ciency of its addressing methods.

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