

Design a Public Access and Private Security Plan

Sterling Silver Widgets, a manufacturer of luxury office supplies for high-powered executives, sells its products through a Web site that receives an average of a thousand visits per day. The company regularly receives shipments from Silver Supply Inc., a supplier that wants to access its own shipping and receiving information in the office network as well as transmit invoices to the Sterling Silver Widgets accounting department. Sterling Silver Widgets has had problems in the past with DoS attacks. Design a perimeter setup that includes stateful packet filtering, public Web server access, a firewall-protected internal, and VPN access to the accounting department server. Include a design drawing of what the network would look like and ACL for the firewall(s)

Design a Packet Filtering Solution

Your employer asks you to block traffic from the Web site *www.offensivecontent.com*, which a group of employees has been caught visiting. You open a command prompt window and type ping *www.offensivecontent.com* to determine the IP address of the site. After a few minutes, the IP address 197.34.5.56 comes back, but you get several messages stating that the request has timed out, and no packets are exchanged. Based on what you've read in this chapter, what does this tell you about the security measures at the *www.offensivecontent.com* Web site? What rule would you add to the rule base to block access to this site?

Access Problems

Employees complain that it's taking longer than usual time to access the Web, receive e-mail messages, and otherwise communicate with external hosts. In reviewing your firewall logs, you notice a large number of ICMP echo requests coming from external host 63.10.100.4. You suspect an attempted ICMP flooding attack. How would you respond?

Remote Access Software and Firewalls

Remote Access Software allows users to access files on their computer or remotely control it through the Internet. Some of the most widely used are GoToMyPC, PC Anywhere, and TightVNC. Users find this software helpful in cases where a file was left on the office computer but was needed to work on at home in the evening. However, security administrators consider these to be a breach in security. Using the Internet and other resources, research these three products, how they work, and what is their focus on security. Do you feel that they are secure enough to recommend for a trusted network? Write a one-page paper on your findings.