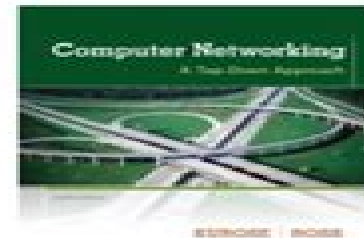


Wireshark Lab: NAT

SOLUTION

Supplement to *Computer Networking: A Top-Down Approach*, 6th ed., J.F. Kurose and K.W. Ross

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In this lab, we'll investigate the behavior of the NAT protocol. This lab will be different from our other Wireshark labs, where we've captured a trace file at a single Wireshark measurement point. Because we're interested in capturing packets at both the input and output sides of the NAT device, we'll need to capture packets at two locations. Also, because many students don't have easy access to a NAT device or to two computers on which to take Wireshark measurements, this isn't a lab that is easily done "live" by a student. Therefore in this lab, you will use Wireshark trace files that we've captured for you. Before beginning this lab, you'll probably want to review the material on NAT section 4.4 in the text.¹

1. NAT Measurement Scenario

In this lab, we'll capture packets from a simple web request from a client PC in a home network to a `www.google.com` server. Within the home network, the home network router provides a NAT service, as discussed in Chapter 4.

Figure 1 shows our Wireshark trace-collection scenario. As in our other Wireshark labs, we collect a Wireshark trace on the client PC in our home network. This file is called `NAT_home_side`². Because we are also interested in the packets being sent by the NAT router into the ISP, we'll collect a second trace file at a PC (not shown) tapping into the link from the home router into the ISP network, as shown in Figure 1. (The hub device



Figure 1: NAT trace collection scenario

¹ All references to the text in this lab are to *Computer Networking: A Top-down Approach*, 5th edition.

² Download the zip file <http://gaia.cs.umass.edu/wireshark-labs/wireshark-traces.zip> and extract the files need for this lab.

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web 140g plain flour 100g soft fresh white breadcrumbs 100g light muscovado sugar crumbled if it looks lumpy 3 large eggs 2 tbsp brandy or cognac plus extra to light the pudding 250g packet butter taken straight from the fridge for the brandy and ginger butter 175g unsalted butter softened grated zest of half an orange 5 tbsp icing sugar

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