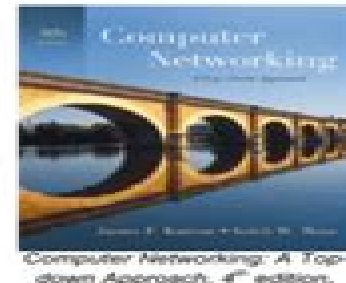


# Wireshark Lab: IP



Version: 2.0

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In this lab, we'll investigate the IP protocol, focusing on the IP datagram. We'll do so by analyzing a trace of IP datagrams sent and received by an execution of the `traceroute` program (the `traceroute` program itself is explored in more detail in the Wireshark ICMP lab). We'll investigate the various fields in the IP datagram, and study IP fragmentation in detail.

Before beginning this lab, you'll probably want to review sections 1.4.3 in the text and section 3.4 of RFC 2151 [<http://ftp.rfc-editor.org/in-notes/rfc2151.txt>] to update yourself on the operation of the `traceroute` program. You'll also want to read Section 4.4 in the text, and probably also have RFC 791 [<http://ftp.rfc-editor.org/in-notes/rfc791.txt>] on hand as well, for a discussion of the IP protocol.<sup>1</sup>

## 1. Capturing packets from an execution of `traceroute`

In order to generate a trace of IP datagrams for this lab, we'll use the `traceroute` program to send datagrams of different sizes towards some destination,  $X$ . Recall that `traceroute` operates by first sending one or more datagrams with the time-to-live (TTL) field in the IP header set to 1; it then sends a series of one or more datagrams towards the same destination with a TTL value of 2; it then sends a series of datagrams towards the same destination with a TTL value of 3; and so on. Recall that a router must decrement the TTL in each received datagram by 1 (actually, RFC 791 says that the router must decrement the TTL by *at least* one). If the TTL reaches 0, the router returns an ICMP message (type 11 – TTL-exceeded) to the sending host. As a result of this behavior, a datagram with a TTL of 1 (sent by the host executing `traceroute`) will cause the router one hop away from the sender to send an ICMP TTL-exceeded message back to the sender; the datagram sent with a TTL of 2 will cause the router two hops away to send an ICMP message back to the sender; the datagram sent with a TTL of 3

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<sup>1</sup> All references to the text in this lab are to *Computer Networking: A Top-down Approach*, 4<sup>th</sup> edition.

# Wireshark Lab Manual

**Toby Skandier**



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