



Packet Guide to Routing and Switching

Bruce Hartpence

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Go beyond layer 2 broadcast domains with this in-depth tour of advanced link and internetwork layer protocols, and learn how they enable you to expand to larger topologies. An ideal follow-up to *Packet Guide to Core Network Protocols*, this concise guide dissects several of these protocols to explain their structure and operation.

This isn't a book on packet theory. Author Bruce Hartpence built topologies in a lab as he wrote this guide, and each chapter includes several packet captures. You'll learn about protocol classification, static vs. dynamic topologies, and reasons for installing a particular route.

This guide covers:

- **Host routing**—Process a routing table and learn how traffic starts out across a network
- **Static routing**—Build router routing tables and understand how forwarding decisions are made and processed
- **Spanning Tree Protocol**—Learn how this protocol is an integral part of every network containing switches
- **Virtual Local Area Networks**—Use VLANs to address the limitations of layer 2 networks
- **Trunking**—Get an indepth look at VLAN tagging and the 802.1Q protocol
- **Routing Information Protocol**—Understand how this distance vector protocol works in small, modern communication networks
- **Open Shortest Path First**—Discover why convergence times of OSPF and other link state protocols are improved over distance vectors

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