

Part II

IP Access Control Lists

Chapter 5: Introduction to TCP/IP Transport and Applications

Chapter 6: Basic IPv4 Access Control Lists

Chapter 7: Named and Extended IP ACLs

Chapter 8: Applied IP ACLs

Part II Review

The *CCNA 200-301 Official Cert Guide, Volume 2*, Second Edition, includes the topics that help you build an enterprise network so all devices can communicate with all other devices. [Parts II](#) and [III](#) of this book focus on how to secure that enterprise network so that only the appropriate devices and users can communicate.

[Part II](#) focuses on IP Version 4 (IPv4) access control lists (ACLs). ACLs are IPv4 packet filters that can be programmed to look at IPv4 packet headers, make choices, and either allow a packet through or discard the packet. Because you can implement IPv4 ACLs on any router, a network engineer has many options of where to use ACLs, without adding additional hardware or software, making ACLs a very flexible and useful tool.

[Chapter 5](#) begins this part with an introduction to the TCP/IP Transport layer protocols TCP and UDP, along with an introduction to several TCP/IP applications. This chapter provides the necessary background to understand the ACL chapters.

[Chapters 6, 7, and 8](#) get into details about ACLs. [Chapter 6](#) discusses ACL basics, avoiding advanced topics to ensure that you master the basics.

[Chapter 7](#) explores named ACLs, which allow easier configuration and editing, and extended ACLs, which provide more options to match packets.

[Chapter 8](#) completes the ACL discussion by examining specific implementation issues, first regarding several overhead protocols, and then discussing some improved ACL features introduced by IOS XE.