

# Key IP Resources Online

This document offers a sound collection of online resources that should help you more fully understand the topics in the *Guide to TCP/IP: IPv6 and IPv4, 5th Edition* textbook. Because Web sites can change, send e-mail to [tcpip5e@guidetotcpip.com](mailto:tcpip5e@guidetotcpip.com) if you ever have a problem accessing any site. Be sure to include the ISBN for this book in the body of your e-mail.

## General IP, Internet, and Networking Overviews

- Gary C. Kessler, “An Overview of TCP/IP Protocols and the Internet”:  
[www.garykessler.net/library/tcpip.html](http://www.garykessler.net/library/tcpip.html)  
Detailed coverage of the TCP/IP protocol suite by one of the best-known experts on computer and network forensics, computer and network security, and TCP/IP.
- Pluralsight (formerly Train Signal), “Intro to TCP/IP”:  
[http://www.youtube.com/watch?v=gJ5h4\\_0mllI&feature=related](http://www.youtube.com/watch?v=gJ5h4_0mllI&feature=related)  
In-depth coverage of TCP/IP basics and protocols, and how to configure TCP/IP for Windows.
- TCP/IP Reference Page: <http://www.protocols.com/pbook/tcpip1/>  
Protocols.com is a great resource for information on all kinds of networking protocols, including all noteworthy members of the TCP/IP protocol suite.

## RFC Resources

- IETF Documents: <http://tools.ietf.org/html>
- Internet RFC Archives: [www.faqs.org/rfcs](http://www.faqs.org/rfcs)
- RFC Editor: [www.rfc-editor.org](http://www.rfc-editor.org)
- The Internet Engineering Task Force (IETF): [www.ietf.org](http://www.ietf.org)
- Wikipedia does a good job of documenting and explaining most well-known RFCs. Visit [en.wikipedia.org](http://en.wikipedia.org), and then search on “RFC *nnnn*” to see what pops up.

## IPv6

- IPv6.net: <http://ipv6.net/>  
Many good IPv6 resources in one site, including slideshares, videos, a community forum, a news feed, and a calendar of events.
- IPv6 Forum: [www.ipv6forum.com](http://www.ipv6forum.com)  
The IPv6 Forum is an industry group devoted to furthering the development and deployment of IPv6. Its home page includes numerous pointers to articles, Web sites, and more.
- ARIN IPv6 Info Center: [www.arin.net/knowledge/ipv6\\_info\\_center.html](http://www.arin.net/knowledge/ipv6_info_center.html)  
The American Registry for Internet Numbers (ARIN) Web site includes the IPv6 info center, which offers educational information, a link to the ARIN IPv6 wiki, and how-to documents for transitioning to and deploying IPv6.
- About.com: [compnetworking.about.com/od/networkprotocolsip/IP\\_and\\_IPv6\\_Protocols.htm](http://compnetworking.about.com/od/networkprotocolsip/IP_and_IPv6_Protocols.htm)  
About.com has some great articles, tutorials, and overviews of IPv6. Check it out.
- Test your IPv6 connectivity: <http://test-ipv6.com>  
This site tests your system for IPv6 connectivity and then displays your IPv4 and IPv6 addresses, and whether your system is using IPv4-to-IPv6 tunneling.
- World IPv6 Launch: [www.worldipv6launch.org/](http://www.worldipv6launch.org/)  
World IPv6 Launch Day occurred in 2011 and was organized by the Internet Society. The associated Web site now keeps track of major networking equipment vendors and Web companies that have

permanently enabled their products and services for IPv6. Specific IPv6 launch project updates are at [www.worldipv6launch.org/measurements/](http://www.worldipv6launch.org/measurements/).

## DNS Information

- How Domain Name Servers Work: [www.howstuffworks.com/dns.htm](http://www.howstuffworks.com/dns.htm)  
A clear and concise rundown of how DNS works, with helpful illustrations.
- Domain Name System: <http://technet.microsoft.com/en-US/network/bb629410.aspx>  
A Microsoft site with lots of links to Microsoft technologies that use DNS.

## IP Routing

Internet Protocol for Beginners: <http://watchguard.com/wgrd-resource-center/security-fundamentals/internet-protocol-for-beginners>

A short but informational piece on IP routing. Be sure to click the Security Fundamentals link for more IP-related articles.

## IP Security

- SecurityFocus: [www.securityfocus.com](http://www.securityfocus.com)  
One of the best all-around computer and network security sites.
- SANS Institute: [www.sans.org](http://www.sans.org)  
One of the best purveyors of security training and certification, with a decided emphasis on TCP/IP.
- An Introduction to Network Security: [https://isc.sans.edu/presentations/first\\_things\\_first.html](https://isc.sans.edu/presentations/first_things_first.html)  
A guide to network security for the beginner.
- Introduction to Computer Security - Information Security Lesson #1 of 12: <https://www.youtube.com/watch?v=zBFB34YGKIU>  
Dr. Soper walks through the basics of computer and network security, covering threats, vulnerabilities, controls, C-I-A (confidentiality, integrity, and availability), types of attackers, and methods of defense.
- Kevin Mitnick: Live Hack at CeBIT Global Conferences 2015: <https://www.youtube.com/watch?v=Q7G3kKRdU14>  
Watch Kevin perform a hack and pick up tips for increasing security.
- SearchSecurity.com: [searchsecurity.techtarget.com](http://searchsecurity.techtarget.com)  
A great general computer and network security site, with excellent coverage of IP security topics and technologies. Some of the authors of *Guide to TCP/IP* contribute regularly to this site.

## IP/Internet Histories

- “History of the Internet: Internet Histories,” [www.isoc.org/internet/history](http://www.isoc.org/internet/history)  
A compendium of Internet histories, including the development of TCP/IP, assembled by the Internet Society (ISOC). An early entry on this page, “A Brief History of the Internet,” recounts Internet history as told by those who made it happen, followed later by a link to narrative on the same subject by Vint Cerf—both are worth reading! Hobbes’ Internet Timeline also includes useful and interesting figures on Internet growth and development.

## IP Addressing, Subnetting, and Supernetting

- Chuck Semeria, “Understanding IP Addressing: Everything You Ever Wanted To Know,” [www.di.unipi.it/~ricci/501302.pdf](http://www.di.unipi.it/~ricci/501302.pdf)  
One of the most comprehensive and readable pieces on all aspects of IP addressing available anywhere.

- Cisco Document ID 1378: “IP Addressing and Subnetting for New Users,” <http://bit.ly/K2KTz>  
Brief but cogent coverage of the ins and outs of IP addressing and subnetting, worth printing and keeping.
- Internet Protocol Tutorial  
<http://compnetworking.about.com/od/tepiptutorials/a/ipaddrnotation.htm>  
This multi-page tutorial explains IP addressing and the technology behind IP networking.
- What is an IP address?: <http://computer.howstuffworks.com/internet/basics/question549.htm>  
A easy-to-follow description of IP addresses and address classes.

## Binary Arithmetic Overviews

- “Basic Concepts behind the Binary System” by Christine R. Wright and Samuel A. Rebelsky,  
<http://www.math.grin.edu/~rebelsky/Courses/152/97F/Readings/student-binary>  
Offers a simple, well-illustrated introduction to the basics of binary and converting between binary and decimal.
- “Binary Arithmetic” (from the Connected: An Internet Encyclopedia site),  
[www.freesoft.org/CIE/Topics/19.htm](http://www.freesoft.org/CIE/Topics/19.htm)  
A simple look at binary arithmetic for beginners.