

# **Network Programming**

**John Goerzen, Tim Bower, Brandon Rhodes**

**Hands-On Network Programming with C** Lewis Van Winkle, 2019-05-13 A comprehensive guide to programming with network sockets, implementing internet protocols, designing IoT devices, and much more with C Key Features Apply your C and C++ programming skills to build powerful network applications Get to grips with a variety of network protocols that allow you to load web pages, send emails, and do much more Write portable network code for Windows, Linux, and macOS Book Description Network programming enables processes to communicate with each other over a computer network, but it is a complex task that requires programming with multiple libraries and protocols. With its support for third-party libraries and structured documentation, C is an ideal language to write network programs. Complete with step-by-step explanations of essential concepts and practical examples, this C network programming book begins with the fundamentals of Internet Protocol, TCP, and UDP. You'll explore client-server and peer-to-peer models for information sharing and connectivity with remote computers. The book will also cover HTTP and HTTPS for communicating between your browser and website, and delve into hostname resolution with DNS, which is crucial to the functioning of the modern web. As you advance, you'll gain insights into asynchronous socket programming and streams, and explore debugging and error handling. Finally, you'll study network monitoring and implement security best practices. By the end of this book, you'll have experience of working with client-server applications and be able to implement new network programs in C. The code in this book is compatible with the older C99 version as well as the latest C18 and C++17 standards. You'll work with robust, reliable, and secure code that is portable across operating systems, including Winsock sockets for Windows and POSIX sockets for Linux and macOS. What you will learn Uncover cross-platform socket programming APIs Implement techniques for supporting IPv4 and IPv6 Understand how TCP and UDP connections work over IP Discover how hostname resolution and DNS work Interface with web APIs using HTTP and HTTPSE Explore Simple Mail Transfer Protocol (SMTP) for electronic mail transmission Apply network programming to the Internet of Things (IoT) Who this book is for If you're a developer or a system administrator who wants to get started with network programming, this book is for you. Basic knowledge of C programming is assumed.

*Network Programming with Perl* Lincoln D. Stein, 2001 A text focusing on the methods and alternatives for designed TCP/IP-based client/server systems and advanced techniques for specialized applications with Perl. A guide examining a collection of the best third party modules in the Comprehensive Perl Archive Network. Topics covered: Perl function libraries and techniques that allow programs to interact with resources over a network. IO: Socket library ; Net: FTP library -- Telnet library -- SMTP library ; Chat problems ; Internet Message Access Protocol (IMAP) issues ; Markup-language parsing ; Internet Protocol (IP) broadcasting and multicasting.

Java Network Programming Elliott Rusty Harold, 2000 A guide to developing network programs covers networking fundamentals as well as TCP and UDP sockets, multicasting protocol, content handlers, servlets, I/O, parsing, Java Mail API, and Java Secure Sockets Extension.

Network Programming with Go Adam Woodbeck, 2021-03-30 Network Programming with Go teaches you how to write clean, secure network software with the programming language designed to make it seem easy. Build simple, reliable, network software Combining the best parts of many other programming languages, Go is fast, scalable, and designed for high-performance networking and multiprocessing. In other words, it's perfect for network programming. Network Programming with Go will help you leverage Go to write secure, readable, production-ready network code. In the early chapters, you'll learn the basics of networking and traffic

routing. Then you'll put that knowledge to use as the book guides you through writing programs that communicate using TCP, UDP, and Unix sockets to ensure reliable data transmission. As you progress, you'll explore higher-level network protocols like HTTP and HTTP/2 and build applications that securely interact with servers, clients, and APIs over a network using TLS. You'll also learn: Internet Protocol basics, such as the structure of IPv4 and IPv6, multicasting, DNS, and network address translation Methods of ensuring reliability in socket-level communications Ways to use handlers, middleware, and multiplexers to build capable HTTP applications with minimal code Tools for incorporating authentication and encryption into your applications using TLS Methods to serialize data for storage or transmission in Go-friendly formats like JSON, Gob, XML, and protocol buffers Ways of instrumenting your code to provide metrics about requests, errors, and more Approaches for setting up your application to run in the cloud (and reasons why you might want to) Network Programming with Go is all you'll need to take advantage of Go's built-in concurrency, rapid compiling, and rich standard library. Covers Go 1.15 (Backward compatible with Go 1.12 and higher)

**C# Network Programming** Richard Blum, 2006-02-20 On its own, C# simplifies network programming. Combine it with the precise instruction found in C# Network Programming, and you'll find that building network applications is easier and quicker than ever. This book helps newcomers get started with a look at the basics of network programming as they relate to C#, including the language's network classes, the Winsock interface, and DNS resolution. Spend as much time here as you need, then dig into the core topics of the network layer. You'll learn to make socket connections via TCP and connectionless connections via UDP. You'll also discover just how much help C# gives you with some of your toughest chores, such as asynchronous socket programming, multithreading, and multicasting. Network-layer techniques are just a means to an end, of course, and so this book keeps going, providing a series of detailed application-layer programming examples that show you how to work with real protocols and real network environments to build and implement a variety of applications. Use SNMP to manage network devices, SMTP to communicate with remote mail servers, and HTTP to Web-enable your applications. And use classes native to C# to query and modify Active Directory entries. Rounding it all out is plenty of advanced coverage to push your C# network programming skills to the limit. For example, you'll learn two ways to share application methods across the network: using Web services and remoting. You'll also master the security features intrinsic to C# and .NET--features that stand to benefit all of your programming projects.

**Network Programming with Go** Jan Newmarch, 2017-05-15 Dive into key topics in network architecture and Go, such as data serialization, application level protocols, character sets and encodings. This book covers network architecture and gives an overview of the Go language as a primer, covering the latest Go release. Beyond the fundamentals, Network Programming with Go covers key networking and security issues such as HTTP and HTTPS, templates, remote procedure call (RPC), web sockets including HTML5 web sockets, and more. Additionally, author Jan Newmarch guides you in building and connecting to a complete web server based on Go. This book can serve as both as an essential learning guide and reference on Go networking. What You Will Learn Master network programming with Go Carry out data serialization Use application-level protocols Manage character sets and encodings Deal with HTTP(S) Build a complete Go-based web server Work with RPC, web sockets, and more Who This Book Is For Experienced Go programmers and other programmers with some experience with the Go language.

**C++ Network Programming, Volume I** Douglas Schmidt, Stephen D. Huston, 2001-12-10 As networks, devices, and systems continue to evolve, software engineers face the unique challenge of creating reliable distributed applications within frequently

changing environments. C++ Network Programming, Volume 1, provides practical solutions for developing and optimizing complex distributed systems using the ADAPTIVE Communication Environment (ACE), a revolutionary open-source framework that runs on dozens of hardware platforms and operating systems. This book guides software professionals through the traps and pitfalls of developing efficient, portable, and flexible networked applications. It explores the inherent design complexities of concurrent networked applications and the tradeoffs that must be considered when working to master them. C++ Network Programming begins with an overview of the issues and tools involved in writing distributed concurrent applications. The book then provides the essential design dimensions, patterns, and principles needed to develop flexible and efficient concurrent networked applications. The book's expert author team shows you how to enhance design skills while applying C++ and patterns effectively to develop object-oriented networked applications. Readers will find coverage of: C++ network programming, including an overview and strategies for addressing common development challenges The ACE Toolkit Connection protocols, message exchange, and message-passing versus shared memory Implementation methods for reusable networked application services Concurrency in object-oriented network programming Design principles and patterns for ACE wrapper facades With this book, C++ developers have at their disposal the most complete toolkit available for developing successful, multiplatform, concurrent networked applications with ease and efficiency.

*UNIX Network Programming: The sockets networking API* W. Richard Stevens, Bill Fenner, Andrew M. Rudoff, 2004 To build today's highly distributed, networked applications and services, you need deep mastery of sockets and other key networking APIs. One book delivers comprehensive, start-to-finish guidance for building robust, high-performance networked systems in any environment: UNIX Network Programming, Volume 1, Third Edition.

Advanced Network Programming – Principles and Techniques Bogdan Ciubotaru, Gabriel-Miro Muntean, 2013-07-15 Answering the need for an accessible overview of the field, this text/reference presents a manageable introduction to both the theoretical and practical aspects of computer networks and network programming. Clearly structured and easy to follow, the book describes cutting-edge developments in network architectures, communication protocols, and programming techniques and models, supported by code examples for hands-on practice with creating network-based applications. Features: presents detailed coverage of network architectures; gently introduces the reader to the basic ideas underpinning computer networking, before gradually building up to more advanced concepts; provides numerous step-by-step descriptions of practical examples; examines a range of network programming techniques; reviews network-based data storage and multimedia transfer; includes an extensive set of practical code examples, together with detailed comments and explanations.

**Network Programming in .NET** Fiach Reid, 2004-07-01 The purpose of this book is to provide tools to design and implement network-orientated applications in .NET. It is also a guide for software designers to choose the best and most efficient way to implement mission critical solutions. The book addresses real-world issues facing professional developers, such as using third-party components as opposed in-house development. It differentiates itself from existing .NET publications because it is aimed at experienced professionals and concentrates on practical, ready-to-use information. The book is written in two languages C# and VB.NET, and covers never-before published information on Telephony in .NET and packet-level networking. This is the second book in the Digital Press Software Development Series. Coverage of lower level protocols allows implementation of performance-centric applications Demonstrates the feasibility of developing telephony solutions in-house rather than outsourcing Written in VB.NET and

C# to assist readers working in either language Coverage of Email, FTP and the WWW allows implementation of applications in all three areas

**UNIX Network Programming** W. Richard Stevens,1990 The Unix model; Interprocess communication; A network primer; Communication protocols; Berkeley sockets; System V transport layer interface; Library routines; Security; Time and date routines; Ping routines; Trivial file transfer protocol; Line printer spoolers; Remote command execution; Remote login; Remote tape drive access; Performance; Remote procedure calls.

*Learning Network Programming with Java* Richard M Reese,2015-12-22 Harness the hidden power of Java to build network-enabled applications with lower network traffic and faster processes About This Book Learn to deliver superior server-to-server communication through the networking channels Gain expertise of the networking features of your own applications to support various network architectures such as client/server and peer-to-peer Explore the issues that impact scalability, affect security, and allow applications to work in a heterogeneous environment Who This Book Is For Learning Network Programming with Java is oriented to developers who wish to use network technologies to enhance the utility of their applications. You should have a working knowledge of Java and an interest in learning the latest in network programming techniques using Java. No prior experience with network development or special software beyond the Java SDK is needed. Upon completion of the book, beginner and experienced developers will be able to use Java to access resources across a network and the Internet. What You Will Learn Connect to other applications using sockets Use channels and buffers to enhance communication between applications Access network services and develop client/server applications Explore the critical elements of peer-to-peer applications and current technologies available Use UDP to perform multicasting Address scalability through the use of core and advanced threading techniques Incorporate techniques into an application to make it more secure Configure and address interoperability issues to enable your applications to work in a heterogeneous environment In Detail Network-aware applications are becoming more prevalent and play an ever-increasing role in the world today. Connecting and using an Internet-based service is a frequent requirement for many applications. Java provides numerous classes that have evolved over the years to meet evolving network needs. These range from low-level socket and IP-based approaches to those encapsulated in software services. This book explores how Java supports networks, starting with the basics and then advancing to more complex topics. An overview of each relevant network technology is presented followed by detailed examples of how to use Java to support these technologies. We start with the basics of networking and then explore how Java supports the development of client/server and peer-to-peer applications. The NIO packages are examined as well as multitasking and how network applications can address practical issues such as security. A discussion on networking concepts will put many network issues into perspective and let you focus on the appropriate technology for the problem at hand. The examples used will provide a good starting point to develop similar capabilities for many of your network needs. Style and approach Each network technology's terms and concepts are introduced first. This is followed up with code examples to explain these technologies. Many of the examples are supplemented with alternate Java 8 solutions when appropriate. Knowledge of Java 8 is not necessary but these examples will help you better understand the power of Java 8.

**C# 5.0 in a Nutshell** Joseph Albahari,Ben Albahari,2012-06-19 When you have a question about C# 5.0 or the .NET CLR, this bestselling guide has precisely the answers you need. Uniquely organized around concepts and use cases, this updated fifth edition

features a reorganized section on concurrency, threading, and parallel programming—including in-depth coverage of C# 5.0's new asynchronous functions. Shaped by more than 20 expert reviewers, including Microsoft's Eric Lippert, Stephen Toub, Chris Burrows, and Jon Skeet, this book has all you need to stay on track with C# 5.0. It's widely known as the definitive reference on the language. Get up to speed on C# language basics, including syntax, types, and variables Explore advanced topics such as unsafe code and type variance Dig deep into LINQ via three chapters dedicated to the topic Learn about code contracts, dynamic programming, and parallel programming Work with .NET features, including reflection, assemblies, memory management, security, I/O, XML, collections, networking, and native interoperability C# 5.0 in a Nutshell is one of the few books I keep on my desk as a quick reference. —Scott Guthrie, Microsoft Whether you're a novice programmer or an expert who wants to improve your knowledge of modern asynchronous programming techniques, this book has the information you need to get the job done in C#. —Eric Lippert, Microsoft

**Foundations of Python Network Programming** John Goerzen, Tim Bower, Brandon Rhodes, 2011-02-24 This second edition of Foundations of Python Network Programming targets Python 2.5 through Python 2.7, the most popular production versions of the language. Python has made great strides since Apress released the first edition of this book back in the days of Python 2.3. The advances required new chapters to be written from the ground up, and others to be extensively revised. You will learn fundamentals like IP, TCP, DNS and SSL by using working Python programs; you will also be able to familiarize yourself with infrastructure components like memcached and message queues. You can also delve into network server designs, and compare threaded approaches with asynchronous event-based solutions. But the biggest change is this edition's expanded treatment of the web. The HTTP protocol is covered in extensive detail, with each feature accompanied by sample Python code. You can use your HTTP protocol expertise by studying an entire chapter on screen scraping and you can then test lxml and BeautifulSoup against a real-world web site. The chapter on web application programming now covers both the WSGI standard for component interoperability, as well as modern web frameworks like Django. Finally, all of the old favorites from the first edition are back: E-mail protocols like SMTP, POP, and IMAP get full treatment, as does XML-RPC. You can still learn how to code Python network programs using the Telnet and FTP protocols, but you are likely to appreciate the power of more modern alternatives like the paramiko SSH2 library. If you are a Python programmer who needs to learn the network, this is the book that you want by your side.

*Network Programming with Rust* Abhishek Chanda, 2018-02-27 Learn to write servers and network clients using Rust's low-level socket classes with this guide Key Features Build a solid foundation in Rust while also mastering important network programming details Leverage the power of a number of available libraries to perform network operations in Rust Develop a fully functional web server to gain the skills you need, fast Book Description Rust is low-level enough to provide fine-grained control over memory while providing safety through compile-time validation. This makes it uniquely suitable for writing low-level networking applications. This book is divided into three main parts that will take you on an exciting journey of building a fully functional web server. The book starts with a solid introduction to Rust and essential networking concepts. This will lay a foundation for, and set the tone of, the entire book. In the second part, we will take an in-depth look at using Rust for networking software. From client-server networking using sockets to IPv4/v6, DNS, TCP, UDP, you will also learn about serializing and deserializing data using serde. The book shows how to communicate with REST servers over HTTP. The final part of the book discusses asynchronous network programming using the Tokio stack. Given the importance of security for modern systems, you will see how Rust supports common primitives such as TLS and

public-key cryptography. After reading this book, you will be more than confident enough to use Rust to build effective networking software. What you will learn: Appreciate why networking is important in implementing distributed systems. Write a non-asynchronous echo server over TCP that talks to a client over a network. Parse JSON and binary data using parser combinators such as `nom`. Write an HTTP client that talks to the server using `reqwest`. Modify an existing Rust HTTP server and add SSL to it. Master asynchronous programming support in Rust. Use external packages in a Rust project. Who this book is for: This book is for software developers who want to write networking software with Rust. A basic familiarity with networking concepts is assumed. Beginner-level knowledge of Rust will help but is not necessary.

**Hands-On Network Programming with C# and .NET Core** Sean Burns, 2019-03-29 A comprehensive guide to understanding network architecture, communication protocols, and network analysis to build secure applications compatible with the latest versions of C# 8 and .NET Core 3.0. Key Features: Explore various network architectures that make distributed programming possible. Learn how to make reliable software by writing secure interactions between clients and servers. Use .NET Core for network device automation, DevOps, and software-defined networking. Book Description: The C# language and the .NET Core application framework provide the tools and patterns required to make the discipline of network programming as intuitive and enjoyable as any other aspect of C# programming. With the help of this book, you will discover how the C# language and the .NET Core framework make this possible. The book begins by introducing the core concepts of network programming, and what distinguishes this field of programming from other disciplines. After this, you will gain insights into concepts such as transport protocols, sockets and ports, and remote data streams, which will provide you with a holistic understanding of how network software fits into larger distributed systems. The book will also explore the intricacies of how network software is implemented in a more explicit context, by covering sockets, connection strategies such as Transmission Control Protocol (TCP) and User Datagram Protocol (UDP), asynchronous processing, and threads. You will then be able to work through code examples for TCP servers, web APIs served over HTTP, and a Secure Shell (SSH) client. By the end of this book, you will have a good understanding of the Open Systems Interconnection (OSI) network stack, the various communication protocols for that stack, and the skills that are essential to implement those protocols using the C# programming language and the .NET Core framework. What you will learn: Understand the breadth of C#'s network programming utility classes. Utilize network-layer architecture and organizational strategies. Implement various communication and transport protocols within C#. Discover hands-on examples of distributed application development. Gain hands-on experience with asynchronous socket programming and streams. Learn how C# and the .NET Core runtime interact with a hosting network. Understand a full suite of network programming tools and features. Who this book is for: If you're a .NET developer or a system administrator with .NET experience and are looking to get started with network programming, then this book is for you. Basic knowledge of C# and .NET is assumed, in addition to a basic understanding of common web protocols and some high-level distributed system designs.

*Foundations of Python Network Programming* John Goerzen, 2004-08-16 \* Covers low-level networking in Python —essential for writing a new networked application protocol. \* Many working examples demonstrate concepts in action -- and can be used as starting points for new projects. \* Networked application security is demystified. \* Exhibits and explains multitasking network servers using several models, including forking, threading, and non-blocking sockets. \* Features extensive coverage of Web and E-mail. Describes Python's database APIs.

*Python Network Programming Cookbook* Pradeeban Kathiravelu, Dr. M. O. Faruque Sarker, 2017-08-09 Discover practical solutions for a wide range of real-world network programming tasks About This Book Solve real-world tasks in the area of network programming, system/networking administration, network monitoring, and more. Familiarize yourself with the fundamentals and functionalities of SDN Improve your skills to become the next-gen network engineer by learning the various facets of Python programming Who This Book Is For This book is for network engineers, system/network administrators, network programmers, and even web application developers who want to solve everyday network-related problems. If you are a novice, you will develop an understanding of the concepts as you progress with this book. What You Will Learn Develop TCP/IP networking client/server applications Administer local machines' IPv4/IPv6 network interfaces Write multi-purpose efficient web clients for HTTP and HTTPS protocols Perform remote system administration tasks over Telnet and SSH connections Interact with popular websites via web services such as XML-RPC, SOAP, and REST APIs Monitor and analyze major common network security vulnerabilities Develop Software-Defined Networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Controllers Emulate simple and complex networks with Mininet and its extensions for network and systems emulations Learn to configure and build network systems and Virtual Network Functions (VNF) in heterogeneous deployment environments Explore various Python modules to program the Internet In Detail Python Network Programming Cookbook - Second Edition highlights the major aspects of network programming in Python, starting from writing simple networking clients to developing and deploying complex Software-Defined Networking (SDN) and Network Functions Virtualization (NFV) systems. It creates the building blocks for many practical web and networking applications that rely on various networking protocols. It presents the power and beauty of Python to solve numerous real-world tasks in the area of network programming, network and system administration, network monitoring, and web-application development. In this edition, you will also be introduced to network modelling to build your own cloud network. You will learn about the concepts and fundamentals of SDN and then extend your network with Mininet. Next, you'll find recipes on Authentication, Authorization, and Accounting (AAA) and open and proprietary SDN approaches and frameworks. You will also learn to configure the Linux Foundation networking ecosystem and deploy and automate your networks with Python in the cloud and the Internet scale. By the end of this book, you will be able to analyze your network security vulnerabilities using advanced network packet capture and analysis techniques. Style and approach This book follows a practical approach and covers major aspects of network programming in Python. It provides hands-on recipes combined with short and concise explanations on code snippets. This book will serve as a supplementary material to develop hands-on skills in any academic course on network programming. This book further elaborates network softwarization, including Software-Defined Networking (SDN), Network Functions Virtualization (NFV), and orchestration. We learn to configure and deploy enterprise network platforms, develop applications on top of them with Python.

**Foundations of Python Network Programming** John Goerzen, Tim Bower, Brandon Rhodes, 2011-02-24 This second edition of Foundations of Python Network Programming targets Python 2.5 through Python 2.7, the most popular production versions of the language. Python has made great strides since Apress released the first edition of this book back in the days of Python 2.3. The advances required new chapters to be written from the ground up, and others to be extensively revised. You will learn fundamentals like IP, TCP, DNS and SSL by using working Python programs; you will also be able to familiarize yourself with infrastructure components like memcached and message queues. You can also delve into network server designs, and compare threaded approaches



with asynchronous event-based solutions. But the biggest change is this edition's expanded treatment of the web. The HTTP protocol is covered in extensive detail, with each feature accompanied by sample Python code. You can use your HTTP protocol expertise by studying an entire chapter on screen scraping and you can then test lxml and BeautifulSoup against a real-world web site. The chapter on web application programming now covers both the WSGI standard for component interoperability, as well as modern web frameworks like Django. Finally, all of the old favorites from the first edition are back: E-mail protocols like SMTP, POP, and IMAP get full treatment, as does XML-RPC. You can still learn how to code Python network programs using the Telnet and FTP protocols, but you are likely to appreciate the power of more modern alternatives like the paramiko SSH2 library. If you are a Python programmer who needs to learn the network, this is the book that you want by your side.

**Network Programming with Windows Sockets** Patrice Bonner, 1996 Complete information for developers designing network programs using the Windows Sockets standard. This book's easy-to-understand explanations and sample programs simplify working with the Windows Sockets API. Expert Patrice Bonner presents methods and tools for designing robust network applications, including sample stream and datagram client and server applications.

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## Network Programming Introduction

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