



Learning Python Network Programming

By Dr. M. O. Faruque Sarker, Sam Washington

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Utilize Python 3 to get network applications up and running quickly and easily

About This Book

- Leverage your Python programming skills to build powerful network applications
- Explore steps to interact with a wide range of network services
- Design multithreaded and event-driven architectures for echo and chat servers

Who This Book Is For

If you're a Python developer or a system administrator with Python experience and you're looking to take your first steps in network programming, then this book is for you. Basic knowledge of Python is assumed.

What You Will Learn

- Develop an understanding of network stacks and the power of encapsulation
- Design high-performance network server applications
- Implement socket-based network applications using asynchronous models
- Build client applications for major web APIs, including Amazon S3 and Twitter
- Interact with e-mail servers using SMTP, POP3, and IMAP protocols
- Deal with remote network servers using SSH, FTP, SNMP, SMB/CIFS, and LDAP protocols
- Work with IP addresses including Geo-IP lookups
- Download objects from the Web and craft custom HTTP requests with urllib and the Requests library

In Detail

Network programming has always been a demanding task. With full-featured and

well documented libraries all the way up the stack, Python makes network programming the enjoyable experience it should be.

Starting with a walkthrough of today's major networking protocols, with this book you'll learn how to employ Python for network programming, how to request and retrieve web resources, and how to extract data in major formats over the Web. You'll utilize Python for e-mailing using different protocols and you'll interact with remote systems and IP and DNS networking.

As the book progresses, socket programming will be covered, followed by how to design servers and the pros and cons of multithreaded and event-driven architectures. You'll develop practical client-side applications, including web API clients, e-mail clients, SSH, and FTP. These applications will also be implemented through existing web application frameworks.

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Editorial Review

About the Author

Dr. M. O. Faruque Sarker

Dr. M. O. Faruque Sarker is a software architect based in London, UK, where he has been shaping various Linux and open source software solutions, mainly on cloud computing platforms, for commercial companies, educational institutions, and multinational consultancies. Over the past 10 years, he has been leading a number of Python software development and cloud infrastructure automation projects. In 2009, he started using Python, where he was responsible for shepherding a fleet of miniature E-puck robots at the University of South Wales, Newport, UK. Later, he honed his Python skills, and he was invited to work on the Google Summer of Code (2009/2010) programs for contributing to the BlueZ and Tahoe-LAFS open source projects. He is the author of Python Network Programming Cookbook, Packt Publishing. He received his PhD in multirobot systems from the University of South Wales. He is currently working at University College London. He takes an active interest in cloud computing, software security, intelligent systems, and child-centric education. He lives in East London with his wife, Shahinur, and daughter, Ayesha.

Sam Washington

Sam Washington currently works at University College London as a member of its Learning and Teaching Applications team, developing and supporting the University's Moodle virtual learning environment, its wikis and blogs, and its online media services. Prior to this, he was a system administrator for UCL's several museums. He has working experience of managing the demands of varied web applications, and deploying and supporting Windows, Linux, and TCP/IP networks. He has been using Python for professional and personal projects for over 7 years.

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James Rose:

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