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Learning Python Network Programming

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quickly and easily

Dr. M. O. Faruque Sarker
Sam Washington

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Python Network Programming By Dr M O Faraque Sarker

Sakis Kasampalis



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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 **Learning Python Network Programming** Dr. M. O. Faruque Sarker, Sam Washington, 2015-06-17 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 *Python Network Programming* Abhishek Ratan, Eric Chou, Pradeeban Kathiravelu, Dr. M. O. Faruque Sarker, 2019-01-31 Power up your network applications with Python programming Key Features Master Python skills to develop powerful network applications Grasp the fundamentals and functionalities of SDN Design multi threaded event driven architectures for echo and chat servers Book Description This Learning Path highlights major aspects of Python network programming such as writing simple networking clients creating and deploying SDN and NFV systems and extending your network with Mininet You ll also learn how to automate legacy and the latest network devices As you progress through the chapters you ll use Python for DevOps and open source tools to test secure and analyze your network Toward the end you ll develop client side applications such as web API clients email clients SSH and FTP using socket programming By the end of this Learning Path you will have learned how to analyze a network s security vulnerabilities using advanced network packet capture and analysis techniques This Learning Path includes content from the following Packt products Practical Network Automation by Abhishek Ratan Mastering Python Networking by Eric Chou Python Network Programming Cookbook Second Edition by Pradeeban Kathiravelu Dr M O Faruque Sarker What you will learn Create socket based networks with asynchronous models Develop client apps for web APIs including S3 Amazon and Twitter Talk to email and remote network servers with different protocols Integrate Python with Cisco Juniper and Arista eAPI for automation Use Telnet and SSH connections for remote system monitoring Interact with websites via XML RPC SOAP and REST APIs Build networks with Ryu OpenDaylight Floodlight ONOS and POX Configure virtual networks in different deployment environments Who this book is for If you are a Python developer or a system administrator who wants to start network programming this Learning Path gets you a step closer to your goal IT professionals and DevOps engineers who are new to managing network devices or those with minimal experience looking to expand their knowledge and skills in Python will also find this Learning Path useful Although prior knowledge of networking is not required some experience in Python programming will be helpful for a better understanding of the concepts in the Learning Path Mastering Python for Networking and Security José Ortega, 2021-01-04 Tackle

security and networking issues using Python libraries such as Nmap requests asyncio and scapy Key Features Enhance your Python programming skills in securing systems and executing networking tasks Explore Python scripts to debug and secure complex networks Learn to avoid common cyber events with modern Python scripting Book DescriptionIt s now more apparent than ever that security is a critical aspect of IT infrastructure and that devastating data breaches can occur from simple network line hacks As shown in this book combining the latest version of Python with an increased focus on network security can help you to level up your defenses against cyber attacks and cyber threats Python is being used for increasingly advanced tasks with the latest update introducing new libraries and packages featured in the Python 3 7 4 recommended version Moreover most scripts are compatible with the latest versions of Python and can also be executed in a virtual environment This book will guide you through using these updated packages to build a secure network with the help of Python scripting You ll cover a range of topics from building a network to the procedures you need to follow to secure it Starting by exploring different packages and libraries you ll learn about various ways to build a network and connect with the Tor network through Python scripting You will also learn how to assess a network s vulnerabilities using Python security scripting Later you ll learn how to achieve endpoint protection by leveraging Python packages along with writing forensic scripts By the end of this Python book you ll be able to use Python to build secure apps using cryptography and steganography techniques What you will learn Create scripts in Python to automate security and pentesting tasks Explore Python programming tools that are used in network security processes Automate tasks such as analyzing and extracting information from servers Understand how to detect server vulnerabilities and analyze security modules Discover ways to connect to and get information from the Tor network Focus on how to extract information with Python forensics tools Who this book is for This Python network security book is for network engineers system administrators or any security professional looking to overcome networking and security challenges You will also find this book useful if you re a programmer with prior experience in Python A basic understanding of general programming structures and the Python programming language is required before getting started *Functional Python Programming* Steven Lott,2015-01-31 This book is for developers who want to use Python to write programs that lean heavily on functional programming design patterns You should be comfortable with Python programming but no knowledge of functional programming paradigms is needed *Python Network Programming Cookbook - Second Edition* Pradeeban Kathiravelu,M. O. Faruque Sarker,2017-08-09 Discover practical solutions for a wide range of real world network programming tasksAbout 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 programmingWho This Book Is ForThis 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 InternetIn DetailPython 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 approachThis 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

Mastering Python Networking Eric Chou, 2018-08-29 Key Features Explore the power of Python libraries to tackle difficult network problems efficiently and effectively Use Python for network device automation DevOps and software defined networking Become an expert in implementing advanced network related tasks with Python Book DescriptionNetworks in your infrastructure set the foundation for how your application can be deployed maintained and serviced Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers In this second edition of Mastering Python Networking you ll embark on a Python based journey to transition from traditional network

engineers to network developers ready for the next generation of networks This book begins by reviewing the basics of Python and teaches you how Python can interact with both legacy and API enabled network devices As you make your way through the chapters you will then learn to leverage high level Python packages and frameworks to perform network engineering tasks for automation monitoring management and enhanced security In the concluding chapters you will use Jenkins for continuous network integration as well as testing tools to verify your network By the end of this book you will be able to perform all networking tasks with ease using Python What you will learn Use Python libraries to interact with your network Integrate Ansible 2.5 using Python to control Cisco Juniper and Arista eAPI network devices Leverage existing frameworks to construct high level APIs Learn how to build virtual networks in the AWS Cloud Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test Driven Network Development Who this book is for Mastering Python Networking is for network engineers and programmers who want to use Python for networking Basic familiarity with Python programming and networking related concepts such as Transmission Control Protocol Internet Protocol TCP IP will be useful

Learning Cython Programming Philip Herron, 2016-02-22 Learn the fundamentals of Cython to extend the legacy of your applications About This Book Learn how to extend C applications with pure Python code Get more from Python you'll not only learn Cython you'll also unlock a greater understanding of how to harness Python Packed with tips and tricks that make Cython look easy dive into this accessible programming guide and find out what happens when you bring C and Python together Who This Book Is For This book is for developers who are familiar with the basics of C and Python programming and wish to learn Cython programming to extend their applications What You Will Learn Reuse Python logging in C Make an IRC bot out of your C application Extend an application so you have a web server for REST calls Practice Cython against your C code Discover tricks to work with Python ConfigParser in C Create Python bindings for native libraries Find out about threading and concurrency related to GIL Expand Terminal Multiplexer Tmux with Cython In Detail Cython is a hybrid programming language used to write C extensions for Python language Combining the practicality of Python and speed and ease of the C language it's an exciting language worth learning if you want to build fast applications with ease This new edition of Learning Cython Programming shows you how to get started taking you through the fundamentals so you can begin to experience its unique powers You'll find out how to get set up before exploring the relationship between Python and Cython You'll also look at debugging Cython before moving on to C constructs Caveat on C usage Python threading and GIL in Cython Finally you'll learn object initialization and compile time and gain a deeper insight into Python 3 which will help you not only become a confident Cython developer but a much more fluent Python developer too Style and approach This practical and a fast paced guide gives you all the information you need to start programming using Cython

Mastering Python for Finance James Ma Weiming, 2015-04-29 If you are an undergraduate or graduate student a beginner to algorithmic development and research or a software developer in the

financial industry who is interested in using Python for quantitative methods in finance this is the book for you It would be helpful to have a bit of familiarity with basic Python usage but no prior experience is required Mastering Python Design Patterns Sakis Kasampalis,2015-01-28 This book is for Python programmers with an intermediate background and an interest in design patterns implemented in idiomatic Python Programmers of other languages who are interested in Python can also benefit from this book but it would be better if they first read some introductory materials that explain how things are done in Python *Bioinformatics with Python Cookbook* Tiago Antao,2015-06-25 If you are either a computational biologist or a Python programmer you will probably relate to the expression explosive growth exciting times Python is arguably the main programming language for big data and the deluge of data in biology mostly from genomics and proteomics makes bioinformatics one of the most exciting fields in data science Using the hands on recipes in this book you ll be able to do practical research and analysis in computational biology with Python We cover modern next generation sequencing libraries and explore real world examples on how to handle real data The main focus of the book is the practical application of bioinformatics but we also cover modern programming techniques and frameworks to deal with the ever increasing deluge of bioinformatics data *Kivy - Interactive Applications and Games in Python* Roberto Ulloa,2015-06-29 Kivy Interactive Applications and Games in Python Second Edition will equip you with all the necessary knowledge to create interactive responsive and cross platform applications and games This book introduces the Kivy language and the necessary components so you can implement a graphical user interface GUI and learn techniques to handle events detect gestures and control multi touch actions You will learn strategies to animate your applications and obtain interactive professional looking and responsive results You will be applying this knowledge throughout the book by developing three applications and tackling their diverse programming challenges **Hands-On MQTT Programming with Python** Gaston C. Hillar,2018-05-22 Explore the features included in the latest versions of MQTT for IoT and M2M communications and use them with modern Python 3 Key Features Make your connected devices less prone to attackers by understanding security mechanisms Take advantage of MQTT features for IoT and Machine to Machine communications The only book that covers MQTT with a single language Python Book Description MQTT is a lightweight messaging protocol for small sensors and mobile devices This book explores the features of the latest versions of MQTT for IoT and M2M communications how to use them with Python 3 and allow you to interact with sensors and actuators using Python The book begins with the specific vocabulary of MQTT and its working modes followed by installing a Mosquitto MQTT broker You will use different utilities and diagrams to understand the most important concepts related to MQTT You will learn to make all the necessary configuration to work with digital certificates for encrypting all data sent between the MQTT clients and the server You will also work with the different Quality of Service levels and later analyze and compare their overheads You will write Python 3 x code to control a vehicle with MQTT messages delivered through encrypted connections TLS 1 2 and learn how leverage your knowledge of the MQTT

protocol to build a solution based on requirements Towards the end you will write Python code to use the PubNub cloud based real time MQTT provider to monitor a surfing competition In the end you will have a solution that was built from scratch by analyzing the requirements and then write Python code that will run on water proof IoT boards connected to multiple sensors in surfboards What you will learn Learn how MQTT and its lightweight messaging system work Understand the MQTT puzzle clients servers formerly known as brokers and connections Explore the features included in the latest versions of MQTT for IoT and M2M communications Publish and receive MQTT messages with Python Learn the difference between blocking and threaded network loops Take advantage of the last will and testament feature Work with cloud based MQTT interfaces in Python Who this book is for This book is for developers who want to learn about the MQTT protocol for their IoT projects Prior knowledge of working with IoT and Python will be helpful **Learning SaltStack** Colton Myers,2015-01-27 If you are a system administrator who manages multiple servers then you know how difficult it is to keep your infrastructure in line If you ve been searching for an easier way this book is for you No prior experience with SaltStack is required **Mastering Python High Performance** Fernando Doglio,2015-09-09 Measure optimize and improve the performance of your Python code with this easy to follow guide About This Book Master the do s and don ts of Python performance programming Learn how to use exiting new tools that will help you improve your scripts A step by step conceptual guide to teach you how to optimize and fine tune your critical pieces of code Who This Book Is For If you re a Python developer looking to improve the speed of your scripts or simply wanting to take your skills to the next level then this book is perfect for you What You Will Learn Master code optimization step by step and learn how to use different tools Understand what a profiler is and how to read its output Interpret visual output from profiling tools and improve the performance of your script Use Cython to create fast applications using Python and C Take advantage of PyPy to improve performance of Python code Optimize number crunching code with NumPy Numba Parakeet and Pandas In Detail Simply knowing how to code is not enough on mission critical pieces of code every bit of memory and every CPU cycle counts and knowing how to squish every bit of processing power out of your code is a crucial and sought after skill Nowadays Python is used for many scientific projects and sometimes the calculations done in those projects require some serious fine tuning Profilers are tools designed to help you measure the performance of your code and help you during the optimization process so knowing how to use them and read their output is very handy This book starts from the basics and progressively moves on to more advanced topics You ll learn everything from profiling all the way up to writing a real life application and applying a full set of tools designed to improve it in different ways In the middle you ll stop to learn about the major profilers used in Python and about some graphic tools to help you make sense of their output You ll then move from generic optimization techniques onto Python specific ones going over the main constructs of the language that will help you improve your speed without much of a change Finally the book covers some number crunching specific libraries and how to use them properly to

get the best speed out of them After reading this book you will know how to take any Python code profile it find out where the bottlenecks are and apply different techniques to remove them Style and approach This easy to follow practical guide will help you enhance your optimization skills by improving real world code *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

Network Automation Cookbook Karim Okasha, 2020-04-17 Take your network automation skills to the next level with practical recipes on managing network devices from a variety of vendors like Cisco Juniper and Arista Key Features Use Ansible to automate network infrastructure with the help of step by step instructions Implement network automation best practices to save cost avoid critical errors and reduce downtime Deliver a robust automation framework by integrating Ansible with NAPALM NetBox and Batfish Book Description Network Automation Cookbook is designed to help system administrators network engineers and infrastructure automation engineers to centrally manage switches routers and other devices in their organization s network This book will help you gain hands on experience in automating enterprise networks and take you through core network automation techniques using the latest version of Ansible and Python With the help of practical recipes you ll learn how to build a network infrastructure that can be easily managed and updated as it scales through a large number of devices You ll also cover topics related to security automation and get to grips with essential techniques to maintain network robustness As you make progress the book will show you how to automate networks on public cloud providers such as AWS Google Cloud Platform and Azure Finally you will get up and running with Ansible 2.9 and discover troubleshooting techniques and network automation best practices By the end of this book you ll be able to use Ansible to automate modern network devices and integrate third party tools such as NAPALM NetBox and Batfish easily to build robust network automation solutions What you will learn Understand the various components of Ansible Automate network resources in AWS GCP and Azure cloud solutions Use IaC concepts to design and build network solutions Automate network devices such as Cisco Juniper Arista and F5 Use NetBox to build network inventory and integrate it with Ansible Validate networks using Ansible and Batfish Who this book is for This Ansible network automation book is for network and DevOps engineers interested in automating complex network tasks Prior understanding of networking and basic Linux knowledge is required

Network Security Strategies Aditya Mukherjee, 2020-11-06 Build a resilient network and prevent advanced cyber attacks and breaches Key Features Explore modern cybersecurity techniques to protect your networks from ever evolving cyber threats Prevent cyber attacks by using robust cybersecurity strategies Unlock the secrets of network security Book Description With advanced cyber attacks severely impacting industry giants and the constantly evolving threat landscape organizations are adopting complex systems to maintain robust and secure environments Network Security Strategies will help you get well versed with the tools and techniques required to protect any network environment against modern cyber threats You ll understand how to identify security vulnerabilities across the network and how to effectively use a variety of network security techniques and platforms Next the book will show you how to design a robust network that provides top notch security to protect against traditional and new evolving attacks With the help of detailed solutions and explanations you ll be able to monitor networks skillfully and identify potential risks Finally the book will cover topics relating to thought leadership and the management aspects of network security By the end of this network security book you

ll be well versed in defending your network from threats and be able to consistently maintain operational efficiency security and privacy in your environment What you will learn Understand network security essentials including concepts mechanisms and solutions to implement secure networks Get to grips with setting up and threat monitoring cloud and wireless networks Defend your network against emerging cyber threats in 2020 Discover tools frameworks and best practices for network penetration testing Understand digital forensics to enhance your network security skills Adopt a proactive approach to stay ahead in network security Who this book is for This book is for anyone looking to explore information security privacy malware and cyber threats Security experts who want to enhance their skill set will also find this book useful A prior understanding of cyber threats and information security will help you understand the key concepts covered in the book more effectively

Learning Python Networking José Manuel Ortega, Dr. M. O. Faruque Sarker, Sam Washington, 2019-03-29

Achieve improved network programmability and automation by leveraging powerful network programming concepts algorithms and tools Key Features Deal with remote network servers using SSH FTP SNMP and LDAP protocols Design multi threaded and event driven architectures for asynchronous servers programming Leverage your Python programming skills to build powerful network applications Book Description 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 walk through of today s major networking protocols through 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 will utilize Python for emailing using different protocols and you ll interact with remote systems and IP and DNS networking You will cover the connection of networking devices and configuration using Python 3.7 along with cloud based network management tasks using Python 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 clientside applications including web API clients email clients SSH and FTP These applications will also be implemented through existing web application frameworks What you will learn Execute Python modules on networking tools Automate tasks regarding the analysis and extraction of information from a network Get to grips with asynchronous programming modules available in Python Get to grips with IP address manipulation modules using Python programming Understand the main frameworks available in Python that are focused on web application Manipulate IP addresses and perform CIDR calculations 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 If you re a network engineer or a network professional aiming to be more productive and efficient in networking programmability and automation then this book would serve as a useful resource Basic knowledge of Python is assumed

Learning Python Networking - Second Edition Jose Ortega, M. Sarker, Sam Washington, 2019 Achieve improved network programmability

and automation by leveraging powerful network programming concepts algorithms and tools

Key Features

- Deal with remote network servers using SSH FTP SNMP and LDAP protocols
- Design multi threaded and event driven architectures for asynchronous servers programming
- Leverage your Python programming skills to build powerful network applications

Book Description

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 walk through of today s major networking protocols through 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 will utilize Python for emailing using different protocols and you ll interact with remote systems and IP and DNS networking You will cover the connection of networking devices and configuration using Python 3.7 along with cloud based network management tasks using Python 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 clientside applications including web API clients email clients SSH and FTP These applications will also be implemented through existing web application frameworks What you will learn

- Execute Python modules on networking tools
- Automate tasks regarding the analysis and extraction of information from a network
- Get to grips with asynchronous programming modules available in Python
- Get to grips with IP address manipulation modules using Python programming
- Understand the main frameworks available in Python that are focused on web application
- Manipulate IP addresses and perform CIDR calculations

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 If you re a network engineer or a network professional aiming to be more productive and efficient in networking programmability and automation then this book would serve as a useful resource Basic knowledge of Python is assumed

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Python Network Programming By Dr M O Faraque Sarker Introduction

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