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# Python Penetration Testing Essentials

Employ the power of Python to get the best out of pentesting

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# Python Penetration Testing Essentials Mohit

**Furqan Khan**



## **Python Penetration Testing Essentials Mohit:**

**Python Penetration Testing Essentials** Mohit,2015-01-28 If you are a Python programmer or a security researcher who has basic knowledge of Python programming and want to learn about penetration testing with the help of Python this book is ideal for you Even if you are new to the field of ethical hacking this book can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion *Python Penetration Testing Essentials* Mohit Raj,2018-05-30 This book gives you the skills you need to use Python for penetration testing with the help of detailed code examples This book has been updated for Python 3.6.3 and Kali Linux 2018.1 Key Features Detect and avoid various attack types that put the privacy of a system at risk Leverage Python to build efficient code and eventually build a robust environment Learn about securing wireless applications and information gathering on a web server Book Description This book gives you the skills you need to use Python for penetration testing pentesting with the help of detailed code examples We start by exploring the basics of networking with Python and then proceed to network hacking Then you will delve into exploring Python libraries to perform various types of pentesting and ethical hacking techniques Next we delve into hacking the application layer where we start by gathering information from a website We then move on to concepts related to website hacking such as parameter tampering DDoS XSS and SQL injection By reading this book you will learn different techniques and methodologies that will familiarize you with Python pentesting techniques how to protect yourself and how to create automated programs to find the admin console SQL injection and XSS attacks What you will learn The basics of network pentesting including network scanning and sniffing Wireless wired attacks and building traps for attack and torrent detection Web server footprinting and web application attacks including the XSS and SQL injection attack Wireless frames and how to obtain information such as SSID BSSID and the channel number from a wireless frame using a Python script The importance of web server signatures email gathering and why knowing the server signature is the first step in hacking Who this book is for If you are a Python programmer a security researcher or an ethical hacker and are interested in penetration testing with the help of Python then this book is for you Even if you are new to the field of ethical hacking this book can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion *Python: Penetration Testing for Developers* Christopher Duffy,Mohit,Cameron Buchanan,Terry Ip,Andrew Mabbitt,Benjamin May,Dave Mound,2016-10-21 Unleash the power of Python scripting to execute effective and efficient penetration testsAbout This Book Sharpen your pentesting skills with Python Develop your fluency with Python to write sharper scripts for rigorous security testing Get stuck into some of the most powerful tools in the security worldWho This Book Is ForIf you are a Python programmer or a security researcher who has basic knowledge of Python programming and wants to learn about penetration testing with the help of Python this course is ideal for you Even if you are new to the field of ethical hacking this course can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion What You Will Learn Familiarize

yourself with the generation of Metasploit resource files and use the Metasploit Remote Procedure Call to automate exploit generation and execution Exploit the Remote File Inclusion to gain administrative access to systems with Python and other scripting languages Crack an organization's Internet perimeter and chain exploits to gain deeper access to an organization's resources Explore wireless traffic with the help of various programs and perform wireless attacks with Python programs Gather passive information from a website using automated scripts and perform XSS SQL injection and parameter tampering attacks Develop complicated header based attacks through Python In Detail Cybercriminals are always one step ahead when it comes to tools and techniques This means you need to use the same tools and adopt the same mindset to properly secure your software This course shows you how to do just that demonstrating how effective Python can be for powerful pentesting that keeps your software safe Comprising of three key modules follow each one to push your Python and security skills to the next level In the first module we'll show you how to get to grips with the fundamentals This means you'll quickly find out how to tackle some of the common challenges facing pentesters using custom Python tools designed specifically for your needs You'll also learn what tools to use and when giving you complete confidence when deploying your pentester tools to combat any potential threat In the next module you'll begin hacking into the application layer Covering everything from parameter tampering DDoS XSS and SQL injection it will build on the knowledge and skills you learned in the first module to make you an even more fluent security expert Finally in the third module you'll find more than 60 Python pentesting recipes We think this will soon become your trusted resource for any pentesting situation This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning Penetration Testing with Python by Christopher Duffy Python Penetration Testing Essentials by Mohit Python Web Penetration Testing Cookbook by Cameron Buchanan Terry Ip Andrew Mabbitt Benjamin May and Dave Mound Style and approach This course provides a quick access to powerful modern tools and customizable scripts to kick start the creation of your own Python web penetration testing toolbox *Python: Penetration Testing for Developers* Christopher Duffy, Mohit, Cameron Buchanan, Terry Ip, Andrew Mabbitt, Benjamin May, Dave Mound, 2016-10-21 Unleash the power of Python scripting to execute effective and efficient penetration tests About This Book Sharpen your pentesting skills with Python Develop your fluency with Python to write sharper scripts for rigorous security testing Get stuck into some of the most powerful tools in the security world Who This Book Is For If you are a Python programmer or a security researcher who has basic knowledge of Python programming and wants to learn about penetration testing with the help of Python this course is ideal for you Even if you are new to the field of ethical hacking this course can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion What You Will Learn Familiarize yourself with the generation of Metasploit resource files and use the Metasploit Remote Procedure Call to automate exploit generation and execution Exploit the Remote File Inclusion to gain administrative access to systems with Python and other scripting

languages Crack an organization's Internet perimeter and chain exploits to gain deeper access to an organization's resources Explore wireless traffic with the help of various programs and perform wireless attacks with Python programs Gather passive information from a website using automated scripts and perform XSS SQL injection and parameter tampering attacks Develop complicated header based attacks through Python In Detail Cybercriminals are always one step ahead when it comes to tools and techniques This means you need to use the same tools and adopt the same mindset to properly secure your software This course shows you how to do just that demonstrating how effective Python can be for powerful pentesting that keeps your software safe Comprising of three key modules follow each one to push your Python and security skills to the next level In the first module we'll show you how to get to grips with the fundamentals This means you'll quickly find out how to tackle some of the common challenges facing pentesters using custom Python tools designed specifically for your needs You'll also learn what tools to use and when giving you complete confidence when deploying your pentester tools to combat any potential threat In the next module you'll begin hacking into the application layer Covering everything from parameter tampering DDoS XSS and SQL injection it will build on the knowledge and skills you learned in the first module to make you an even more fluent security expert Finally in the third module you'll find more than 60 Python pentesting recipes We think this will soon become your trusted resource for any pentesting situation This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning Penetration Testing with Python by Christopher Duffy Python Penetration Testing Essentials by Mohit Python Web Penetration Testing Cookbook by Cameron Buchanan Terry Ip Andrew Mabbitt Benjamin May and Dave Mound Style and approach This course provides a quick access to powerful modern tools and customizable scripts to kick start the creation of your own Python web penetration testing toolbox *Python Web Penetration Testing Cookbook* Cameron Buchanan, Terry Ip, Andrew Mabbitt, Benjamin May, Dave Mound, 2015-06-24 This book gives you an arsenal of Python scripts perfect to use or to customize your needs for each stage of the testing process Each chapter takes you step by step through the methods of designing and modifying scripts to attack web apps You will learn how to collect both open and hidden information from websites to further your attacks identify vulnerabilities perform SQL Injections exploit cookies and enumerate poorly configured systems You will also discover how to crack encryption create payloads to mimic malware and create tools to output your findings into presentable formats for reporting to your employers **Learn Python in 7 Days** Mohit Raj, Bhaskar N. Das, 2017-05-25 Learn efficient Python coding within 7 days About This Book Make the best of Python features Learn the tinge of Python in 7 days Learn complex concepts using the most simple examples Who This Book Is For The book is aimed at aspiring developers and absolute novice who want to get started with the world of programming We assume no knowledge of Python for this book What You Will Learn Use if else statement with loops and how to break skip the loop Get acquainted with python types and its operators Create modules and packages Learn slicing indexing and string methods

Explore advanced concepts like collections class and objects Learn dictionary operation and methods Discover the scope and function of variables with arguments and return value  
In Detail Python is a great language to get started in the world of programming and application development This book will help you to take your skills to the next level having a good knowledge of the fundamentals of Python We begin with the absolute foundation covering the basic syntax type variables and operators We ll then move on to concepts like statements arrays operators string processing and I O handling You ll be able to learn how to operate tuples and understand the functions and methods of lists We ll help you develop a deep understanding of list and tuples and learn python dictionary As you progress through the book you ll learn about function parameters and how to use control statements with the loop You ll further learn how to create modules and packages storing of data as well as handling errors We later dive into advanced level concepts such as Python collections and how to use class methods objects in python By the end of this book you will be able to take your skills to the next level having a good knowledge of the fundamentals of Python Style and approach Fast paced guide to get you up to speed with the language Every chapter is followed by an exercise that focuses on building something with the language The codes of the exercises can be found on the Packt website

**Learning zANTI2 for Android Pentesting** Miroslav Vitula, 2015-08-31 Dive into the world of advanced network penetration tests to survey and attack wireless networks using your Android device and zANTI2 About This Book Understand the basics of wireless penetration testing and its importance Learn the techniques to perform penetration testing on your wireless networks such as scanning detecting vulnerabilities in your victim and then attacking This simple and intriguing guide takes a step by step approach that will help you get to grips with network pentesting using just your Android device and zANTI2 Who This Book Is For The book is intended for those who want to know more about network penetration tests and have no prior experience as well as for those who are experienced in network systems and are curious to discover more about this topic Since zANTI2 features an extremely intuitive and easy to control interface it doesn t require any special skills What You Will Learn Understand the importance of penetration testing throughout systems Take a run through zANTI2 s interface and understand the requirements to the app Perform advanced scanning network mapping and discover the various types of scans used on a target Discover and remotely connect to open ports on a target thereby accessing a target s files and folders remotely Detect vulnerabilities on a target learn how to remotely exploit them and discover ways to protect your self from these exploits Understand what an MITM attack is and how it works and apply this knowledge to perform attacks on network targets Learn to hijack sessions identify victim s passwords replace images on websites inject scripts and more Use this knowledge to protect yourself from all of the attacks you will study In Detail A penetration test is one of the most important methods to secure a network or any individual machine Having knowledge of these methods can enable a user to protect himself herself from any kinds of attacks Penetration tests can also be used to discover flaws or loop holes in one s security system which if not fixed can be exploited by an unwanted entity This book

starts off with an introduction to what penetration testing is and how it can be performed on Android using zANTI2. Once you are aware of the basics we move on to teach you the different types of scans that can be performed to search for targets. You will then learn how to connect to open ports and intrude into an unsecured computer. From here you will explore vulnerabilities and their usage including ShellShock and SSL Poodle vulnerability. When connected to an open network a user is susceptible to password and session hijacking and a number of other cyber attacks. The book therefore ends with one of the main aspects of cyber security the Man in the Middle attack. You will get to know everything about the MITM attack how it works and how one can be protected against it. Style and approach The book follows a step by step approach with each of the parts explained in an easy to follow style. Most of the methods showcased can be tried out immediately on almost any network.

Learn Python in 7 Days Mohit,, Bhaskar N. Das, 2017-05-25. Learn efficient Python coding within 7 days. About This Book Make the best of Python features. Learn the tinge of Python in 7 days. Learn complex concepts using the most simple examples. Who This Book Is For The book is aimed at aspiring developers and absolute novice who want to get started with the world of programming. We assume no knowledge of Python for this book. What You Will Learn Use if else statement with loops and how to break skip the loop. Get acquainted with python types and its operators. Create modules and packages. Learn slicing indexing and string methods. Explore advanced concepts like collections class and objects. Learn dictionary operation and methods. Discover the scope and function of variables with arguments and return value. In Detail Python is a great language to get started in the world of programming and application development. This book will help you to take your skills to the next level having a good knowledge of the fundamentals of Python. We begin with the absolute foundation covering the basic syntax type variables and operators. We ll then move on to concepts like statements arrays operators string processing and I O handling. You ll be able to learn how to operate tuples and understand the functions and methods of lists. We ll help you develop a deep understanding of list and tuples and learn python dictionary. As you progress through the book you ll learn about function parameters and how to use control statements with the loop. You ll further learn how to create modules and packages storing of data as well as handling errors. We later dive into advanced level concepts such as Python collections and how to use class methods objects in python. By the end of this book you will be able to take your skills to the next level having a good knowledge of the fundamentals of Python. Style and approach Fast paced guide to get you up to speed with the language. Every chapter is followed by an exercise that focuses on building something with the language. The codes of the exercises can be found on the Packt website. **Python GUI Programming Cookbook** Burkhard A. Meier, 2017-05-29. Master over 80 object oriented recipes to create amazing GUIs in Python and revolutionize your applications today. About This Book Use object oriented programming to develop amazing GUIs in Python. Create a working GUI project as a central resource for developing your Python GUIs. Easy to follow recipes to help you develop code using the latest released version of Python. Who This Book Is For This book is for intermediate Python programmers who wish to enhance their Python skills by

writing powerful GUIs in Python As Python is such a great and easy to learn language this book is also ideal for any developer with experience of other languages and enthusiasm to expand their horizon What You Will Learn Create the GUI Form and add widgets Arrange the widgets using layout managers Use object oriented programming to create GUIs Create Matplotlib charts Use threads and talking to networks Talk to a MySQL database via the GUI Perform unit testing and internationalizing the GUI Extend the GUI with third party graphical libraries Get to know the best practices to create GUIs In Detail Python is a multi domain interpreted programming language It is a widely used general purpose high level programming language It is often used as a scripting language because of its forgiving syntax and compatibility with a wide variety of different eco systems Python GUI Programming Cookbook follows a task based approach to help you create beautiful and very effective GUIs with the least amount of code necessary This book will guide you through the very basics of creating a fully functional GUI in Python with only a few lines of code Each and every recipe adds more widgets to the GUIs we are creating While the cookbook recipes all stand on their own there is a common theme running through all of them As our GUIs keep expanding using more and more widgets we start to talk to networks databases and graphical libraries that greatly enhance our GUI s functionality This book is what you need to expand your knowledge on the subject of GUIs and make sure you re not missing out in the long run Style and approach This programming cookbook consists of standalone recipes and this approach makes it unique While each recipe explains a certain concept throughout the book you ll build a more and more advanced GUI recipe after recipe In some of the advanced topics we simply create a new GUI in order to explore these topics in depth

[Python Penetration Testing Cookbook](#) Rejah Rehim,2017-11-28 Over 50 hands on recipes to help you pen test networks using Python discover vulnerabilities and find a recovery path About This Book Learn to detect and avoid various types of attack that put system privacy at risk Enhance your knowledge of wireless application concepts and information gathering through practical recipes Learn a pragmatic way to penetration test using Python build efficient code and save time Who This Book Is For If you are a developer with prior knowledge of using Python for penetration testing and if you want an overview of scripting tasks to consider while penetration testing this book will give you a lot of useful code for your toolkit What You Will Learn Learn to configure Python in different environment setups Find an IP address from a web page using BeautifulSoup and Scrapy Discover different types of packet sniffing script to sniff network packets Master layer 2 and TCP IP attacks Master techniques for exploit development for Windows and Linux Incorporate various network and packet sniffing techniques using Raw sockets and Scrapy In Detail Penetration testing is the use of tools and code to attack a system in order to assess its vulnerabilities to external threats Python allows pen testers to create their own tools Since Python is a highly valued pen testing language there are many native libraries and Python bindings available specifically for pen testing tasks Python Penetration Testing Cookbook begins by teaching you how to extract information from web pages You will learn how to build an intrusion detection system using network sniffing techniques Next you will

find out how to scan your networks to ensure performance and quality and how to carry out wireless pen testing on your network to avoid cyber attacks After that we ll discuss the different kinds of network attack Next you ll get to grips with designing your own torrent detection program We ll take you through common vulnerability scenarios and then cover buffer overflow exploitation so you can detect insecure coding Finally you ll master PE code injection methods to safeguard your network Style and approach This book takes a recipe based approach to solving real world problems in pen testing It is structured in stages from the initial assessment of a system through exploitation to post exploitation tests and provides scripts that can be used or modified for in depth penetration testing *Penetration Testing Essentials* Sean-Philip Oriyano,2016-11-15 Your pen testing career begins here with a solid foundation in essential skills and concepts *Penetration Testing Essentials* provides a starting place for professionals and beginners looking to learn more about penetration testing for cybersecurity Certification eligibility requires work experience but before you get that experience you need a basic understanding of the technical and behavioral ways attackers compromise security and the tools and techniques you ll use to discover the weak spots before others do You ll learn information gathering techniques scanning and enumeration how to target wireless networks and much more as you build your pen tester skill set You ll learn how to break in look around get out and cover your tracks all without ever being noticed Pen testers are tremendously important to data security so they need to be sharp and well versed in technique but they also need to work smarter than the average hacker This book set you on the right path with expert instruction from a veteran IT security expert with multiple security certifications IT Security certifications have stringent requirements and demand a complex body of knowledge This book lays the groundwork for any IT professional hoping to move into a cybersecurity career by developing a robust pen tester skill set Learn the fundamentals of security and cryptography Master breaking entering and maintaining access to a system Escape and evade detection while covering your tracks Build your pen testing lab and the essential toolbox Start developing the tools and mindset you need to become experienced in pen testing today *Practical Convolutional Neural Networks* Mohit Sewak,Md. Rezaul Karim,Pradeep Pujari,2018-02-27 One stop guide to implementing award winning and cutting edge CNN architectures Key Features Fast paced guide with use cases and real world examples to get well versed with CNN techniques Implement CNN models on image classification transfer learning Object Detection Instance Segmentation GANs and more Implement powerful use cases like image captioning reinforcement learning for hard attention and recurrent attention models Book Description Convolutional Neural Network CNN is revolutionizing several application domains such as visual recognition systems self driving cars medical discoveries innovative eCommerce and more You will learn to create innovative solutions around image and video analytics to solve complex machine learning and computer vision related problems and implement real life CNN models This book starts with an overview of deep neural networkswith the example of image classification and walks you through building your first CNN for human face detector We will learn to use concepts like transfer learning with

CNN and Auto Encoders to build very powerful models even when not much of supervised training data of labeled images is available Later we build upon the learning achieved to build advanced vision related algorithms for object detection instance segmentation generative adversarial networks image captioning attention mechanisms for vision and recurrent models for vision By the end of this book you should be ready to implement advanced effective and efficient CNN models at your professional project or personal initiatives by working on complex image and video datasets What you will learn From CNN basic building blocks to advanced concepts understand practical areas they can be applied to Build an image classifier CNN model to understand how different components interact with each other and then learn how to optimize it Learn different algorithms that can be applied to Object Detection and Instance Segmentation Learn advanced concepts like attention mechanisms for CNN to improve prediction accuracy Understand transfer learning and implement award winning CNN architectures like AlexNet VGG GoogLeNet ResNet and more Understand the working of generative adversarial networks and how it can create new unseen images Who this book is for This book is for data scientists machine learning and deep learning practitioners Cognitive and Artificial Intelligence enthusiasts who want to move one step further in building Convolutional Neural Networks Get hands on experience with extreme datasets and different CNN architectures to build efficient and smart ConvNet models Basic knowledge of deep learning concepts and Python programming language is expected

**Mastering Python Penetration Testing** Rejah Rehim,2016-06-27 Pen test your system like a pro and overcome vulnerabilities by leveraging Python scripts libraries and toolsAbout This Book Learn to utilize your Python scripting skills to pentest a computer system network and web application Master the art of assessing vulnerabilities by conducting effective penetration testing This ultimate guide that teaches you how to use Python to protect your systems against sophisticated cyber attacks Who This Book Is ForThis book is ideal for those who are comfortable with Python or a similar language and need no help with basic programming concepts but want to understand the basics of penetration testing and the problems pentesters face What You Will Learn Write Scapy scripts to investigate network traffic Get to know application fingerprinting techniques with Python Understand the attack scripting techniques Write fuzzing tools with pentesting requirements Learn basic attack scripting methods Utilize cryptographic toolkits in Python Automate Python tools and libraries In DetailPenetration testing is a practice of testing a computer system network or web application to find weaknesses in security that an attacker can exploit Mastering Python Penetration Testing will help you utilize your Python scripting skills to safeguard your networks from cyberattacks We will begin by providing you with an overview of Python scripting and penetration testing You will learn to analyze network traffic by writing Scapy scripts and will see how to fingerprint web applications with Python libraries such as ProxMon and Spynner Moving on you will find out how to write basic attack scripts and will develop debugging and reverse engineering skills with Python libraries Toward the end of the book you will discover how to utilize cryptography toolkits in Python and how to automate Python tools and libraries

Effective Python Penetration Testing Rejah Rehim,2016-06-29 Pen test your system like a pro and overcome vulnerabilities by leveraging Python scripts libraries and tools About This Book Learn to utilize your Python scripting skills to pentest a computer system network and web application Get proficient at the art of assessing vulnerabilities by conducting effective penetration testing This is the ultimate guide that teaches you how to use Python to protect your systems against sophisticated cyber attacks Who This Book Is For This book is ideal for those who are comfortable with Python or a similar language and need no help with basic programming concepts but want to understand the basics of penetration testing and the problems pentesters face What You Will Learn Write Scapy scripts to investigate network traffic Get to know application fingerprinting techniques with Python Understand the attack scripting techniques Write fuzzing tools with pentesting requirements Learn basic attack scripting methods Utilize cryptographic toolkits in Python Automate pentesting with Python tools and libraries In Detail Penetration testing is a practice of testing a computer system network or web application to find weaknesses in security that an attacker can exploit Effective Python Penetration Testing will help you utilize your Python scripting skills to safeguard your networks from cyberattacks We will begin by providing you with an overview of Python scripting and penetration testing You will learn to analyze network traffic by writing Scapy scripts and will see how to fingerprint web applications with Python libraries such as ProxMon and Spynner Moving on you will find out how to write basic attack scripts and will develop debugging and reverse engineering skills with Python libraries Toward the end of the book you will discover how to utilize cryptography toolkits in Python and how to automate Python tools and libraries Style and approach This is an expert s guide to Python with a practical based approach where each chapter will help you improve your penetration testing skills using Python to become a master pen tester

**Penetration Testing Essentials** Raheel Ahmad,2012-01-15 From the initial phase of understanding the scope to mitigating risk while performing the actual exploit tests this book lays out the exact steps to follow for successfully executing penetration testing engagement It explains the essential elements required for performing vulnerability and risk assessment mapping the risk factor with the likelihood of the detected vulnerability and mapping the matrix for performing exploitation analysis The text also prepares readers for the Certified Ethical Hacking exam by providing hands on lessons and explains how to set up a penetration testing lab while using the best security testing tools available under general public license

**Python Penetration Testing Cookbook** Maninder Singh,Mohit,2016-06-30 Over 60 hands on recipes to pen test networks using Python to discover vulnerabilities and find a recovery pathAbout This Book Learn to detect and avoid various types of attacks that put the privacy of a system at risk Enhance your knowledge on the concepts of wireless applications and information gathering through practical recipes See a pragmatic way to penetration test using Python to build efficient code and save timeWho This Book Is ForThis book is for developers who have prior knowledge of using Python for pen testing If you want an overview of scripting tasks to consider while pen testing this book will give you a lot of useful code or your tool kit What You Will Learn Find an IP address

from a web page using BeautifulSoup and urllib Discover different types of sniffers to build an intrusion detection system Create an efficient and high performance ping sweep and port scanner Get to grips with making an SSID and BSSID scanner Perform network pen testing by attacking DDoS DHCP and packet injecting Fingerprint OS and network applications and correlate common vulnerabilities Master techniques to detect vulnerabilities in your environment and secure them Incorporate various networks and packet sniffing techniques using Raw sockets and ScapyIn DetailPenetration testing is the use of tools and code to attack a system in order to assess its vulnerabilities to external threats Python allows pen testers to create their own tools Since Python is a highly valued pen testing language there are many native libraries and Python bindings available specifically for pen testing tasks Python Penetration Testing Cookbook begins by teaching you how to extract information from web pages You will learn how to build an intrusion detection system using network sniffing techniques Next you will find out how to scan your networks to ensure performance and quality and how to carry out wireless pen testing on your network to avoid cyber attacks After that we ll discuss the different kinds of attacks on the network Next you ll get to grips with designing your own torrent detection program We ll take you through common vulnerability scenarios and then cover buffer overflow exploitation so you can detect insecure coding Finally you ll discover PE code injection methods to safeguard your network

**Hands-On Penetration Testing with Python** Furqan Khan,2019-01-31 Implement defensive techniques in your ecosystem successfully with Python Key FeaturesIdentify and expose vulnerabilities in your infrastructure with PythonLearn custom exploit development Make robust and powerful cybersecurity tools with PythonBook Description With the current technological and infrastructural shift penetration testing is no longer a process oriented activity Modern day penetration testing demands lots of automation and innovation the only language that dominates all its peers is Python Given the huge number of tools written in Python and its popularity in the penetration testing space this language has always been the first choice for penetration testers Hands On Penetration Testing with Python walks you through advanced Python programming constructs Once you are familiar with the core concepts you ll explore the advanced uses of Python in the domain of penetration testing and optimization You ll then move on to understanding how Python data science and the cybersecurity ecosystem communicate with one another In the concluding chapters you ll study exploit development reverse engineering and cybersecurity use cases that can be automated with Python By the end of this book you ll have acquired adequate skills to leverage Python as a helpful tool to pentest and secure infrastructure while also creating your own custom exploits What you will learnGet to grips with Custom vulnerability scanner developmentFamiliarize yourself with web application scanning automation and exploit developmentWalk through day to day cybersecurity scenarios that can be automated with PythonDiscover enterprise or organization specific use cases and threat hunting automationUnderstand reverse engineering fuzzing buffer overflows key logger development and exploit development for buffer overflows Understand web scraping in Python and use it for processing web responsesExplore Security Operations Centre SOC use

cases Get to understand Data Science Python and cybersecurity all under one hood Who this book is for If you are a security consultant developer or a cyber security enthusiast with little or no knowledge of Python and want in depth insight into how the pen testing ecosystem and python combine to create offensive tools exploits automate cyber security use cases and much more then this book is for you Hands On Penetration Testing with Python guides you through the advanced uses of Python for cybersecurity and pen testing helping you to better understand security loopholes within your infrastructure

**Learning Penetration Testing with Python** Christopher Duffy, 2015-09-30 Utilize Python scripting to execute effective and efficient penetration tests About This Book Understand how and where Python scripts meet the need for penetration testing Familiarise yourself with the process of highlighting a specific methodology to exploit an environment to fetch critical data Develop your Python and penetration testing skills with real world examples Who This Book Is For If you are a security professional or researcher with knowledge of different operating systems and a conceptual idea of penetration testing and you would like to grow your knowledge in Python then this book is ideal for you What You Will Learn Familiarise yourself with the generation of Metasploit resource files Use the Metasploit Remote Procedure Call MSFRPC to automate exploit generation and execution Use Python's Scapy network socket office Nmap libraries and custom modules Parse Microsoft Office spreadsheets and eXtensible Markup Language XML data files Write buffer overflows and reverse Metasploit modules to expand capabilities Exploit Remote File Inclusion RFI to gain administrative access to systems with Python and other scripting languages Crack an organization's Internet perimeter Chain exploits to gain deeper access to an organization's resources Interact with web services with Python In Detail Python is a powerful new age scripting platform that allows you to build exploits evaluate services automate and link solutions with ease Python is a multi paradigm programming language well suited to both object oriented application development as well as functional design patterns Because of the power and flexibility offered by it Python has become one of the most popular languages used for penetration testing This book highlights how you can evaluate an organization methodically and realistically Specific tradecraft and techniques are covered that show you exactly when and where industry tools can and should be used and when Python fits a need that proprietary and open source solutions do not Initial methodology and Python fundamentals are established and then built on Specific examples are created with vulnerable system images which are available to the community to test scripts techniques and exploits This book walks you through real world penetration testing challenges and how Python can help From start to finish the book takes you through how to create Python scripts that meet relative needs that can be adapted to particular situations As chapters progress the script examples explain new concepts to enhance your foundational knowledge culminating with you being able to build multi threaded security tools link security tools together automate reports create custom exploits and expand Metasploit modules Style and approach This book is a practical guide that will help you become better penetration testers and or Python security tool developers Each chapter builds on concepts and tradecraft using detailed examples in test

environments that you can simulate

**Violent Python** TJ O'Connor,2012-12-28 Violent Python shows you how to move from a theoretical understanding of offensive computing concepts to a practical implementation Instead of relying on another attacker s tools this book will teach you to forge your own weapons using the Python programming language This book demonstrates how to write Python scripts to automate large scale network attacks extract metadata and investigate forensic artifacts It also shows how to write code to intercept and analyze network traffic using Python craft and spoof wireless frames to attack wireless and Bluetooth devices and how to data mine popular social media websites and evade modern anti virus Demonstrates how to write Python scripts to automate large scale network attacks extract metadata and investigate forensic artifacts Write code to intercept and analyze network traffic using Python Craft and spoof wireless frames to attack wireless and Bluetooth devices Data mine popular social media websites and evade modern anti virus

**Mastering Machine Learning for Penetration Testing** Chiheb Chebbi,2018-06-27 Become a master at penetration testing using machine learning with Python Key Features Identify ambiguities and breach intelligent security systems Perform unique cyber attacks to breach robust systems Learn to leverage machine learning algorithms Book Description Cyber security is crucial for both businesses and individuals As systems are getting smarter we now see machine learning interrupting computer security With the adoption of machine learning in upcoming security products it s important for pentesters and security researchers to understand how these systems work and to breach them for testing purposes This book begins with the basics of machine learning and the algorithms used to build robust systems Once you ve gained a fair understanding of how security products leverage machine learning you ll dive into the core concepts of breaching such systems Through practical use cases you ll see how to find loopholes and surpass a self learning security system As you make your way through the chapters you ll focus on topics such as network intrusion detection and AV and IDS evasion We ll also cover the best practices when identifying ambiguities and extensive techniques to breach an intelligent system By the end of this book you will be well versed with identifying loopholes in a self learning security system and will be able to efficiently breach a machine learning system What you will learn Take an in depth look at machine learning Get to know natural language processing NLP Understand malware feature engineering Build generative adversarial networks using Python libraries Work on threat hunting with machine learning and the ELK stack Explore the best practices for machine learning Who this book is for This book is for pen testers and security professionals who are interested in learning techniques to break an intelligent security system Basic knowledge of Python is needed but no prior knowledge of machine learning is necessary

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