# Python Web Penetration Testing Cookbook

Practical Web Penetration TestingHands-on Penetration Testing for Web ApplicationsUltimate Pentesting for Web ApplicationsHands-On Web Penetration Testing with MetasploitA Beginner's Guide To Web Application Penetration TestingBurp Suite CookbookThe Penetration Tester's Guide to Web ApplicationsWeb Penetration Testing with Kali LinuxLearning Python Web Penetration TestingWeb Penetration Testing with Kali LinuxWeb Penetration Testing with Kali LinuxMastering Kali Linux for Web Penetration TestingLearning Python Web Penetration TestingHands-On Application Penetration Testing with Burp SuiteBuilding Virtual Pentesting Labs for Advanced Penetration TestingPenetration TestingWeb Penetration Testing with Kali Linux – Second EditionEthical Hacker's Penetration Testing GuideWeb Penetration Testing with Kali LinuxPython Web Penetration Testing Cookbook Gus Khawaja Richa Gupta Dr. Rohit Gautam Harpreet Singh Ali Abdollahi Sunny Wear Serge Borso Juned Ahmed Ansari Christian Martorella Joseph Muniz Gilberto Najera-Gutierrez Michael McPhee Christian Martorella Carlos A. Lozano Kevin Cardwell Georgia Weidman Juned Ahmed Ansari Samir Kumar Rakshit Aamir Lakhani Cameron Buchanan

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applications are the core of any business today and the need for specialized application security experts is increasing these days using this book you will be able to learn application security testing and understand how to analyze a web application conduct a web intrusion test and a network infrastructure test

description hands on penetration testing for applications offers readers with the knowledge and skillset to identify exploit and control the security vulnerabilities present in commercial web applications including online banking mobile payments and e commerce applications covering a diverse array of topics this book provides a comprehensive overview of web application security testing methodologies each chapter offers key insights and practical applications that align with the objectives of the course students will explore critical areas such as vulnerability identification penetration testing techniques using open source pen test management and reporting tools testing applications hosted on cloud and automated security testing tools throughout the book readers will encounter essential concepts and tools such as owasp top 10 vulnerabilities sql injection cross site scripting xss authentication and authorization testing and secure configuration practices with a focus on real world applications students will develop critical thinking skills problem

SOLVING ABILITIES AND A SECURITY FIRST MINDSET REQUIRED TO ADDRESS THE CHALLENGES OF MODERN WEB APPLICATION THREATS WITH A DEEP UNDERSTANDING OF SECURITY VULNERABILITIES AND TESTING SOLUTIONS STUDENTS WILL HAVE THE CONFIDENCE TO EXPLORE NEW OPPORTUNITIES DRIVE INNOVATION AND MAKE INFORMED DECISIONS IN THE RAPIDLY EVOLVING FIELD OF CYBERSECURITY KEY FEATURES EXCITING COVERAGE ON VULNERABILITIES AND SECURITY LOOPHOLES IN MODERN WEB APPLICATIONS PRACTICAL EXERCISES AND CASE SCENARIOS ON PERFORMING PEN TESTING AND IDENTIFYING SECURITY BREACHES THIS NEW EDITION BRINGS ENHANCED CLOUD SECURITY COVERAGE AND COMPREHENSIVE PENETRATION TEST MANAGEMENT USING ATTACKFORGE FOR STREAMLINED VULNERABILITY DOCUMENTATION AND REMEDIATION WHAT YOU WILL LEARN NAVIGATE THE COMPLEXITIES OF WEB APPLICATION SECURITY TESTING AN OVERVIEW OF THE MODERN APPLICATION VULNERABILITIES DETECTION TECHNIQUES TOOLS AND WEB PENETRATION TESTING METHODOLOGY FRAMEWORK CONTRIBUTE MEANINGFULLY TO SAFEGUARDING DIGITAL SYSTEMS ADDRESS THE CHALLENGES OF MODERN WEB APPLICATION THREATS THIS EDITION INCLUDES TESTING MODERN WEB APPLICATIONS WITH EMERGING TRENDS LIKE DEVSECOPS API SECURITY AND CLOUD HOSTING THIS EDITION BRINGS DEVSECOPS IMPLEMENTATION USING AUTOMATED SECURITY APPROACHES FOR CONTINUOUS VULNERABILITY REMEDIATION WHO THIS BOOK IS FOR THE TARGET AUDIENCE FOR THIS BOOK INCLUDES STUDENTS SECURITY ENTHUSIASTS PENETRATION TESTERS AND WEB APPLICATION DEVELOPERS INDIVIDUALS WHO ARE NEW TO SECURITY TESTING WILL BE ABLE TO BUILD AN UNDERSTANDING ABOUT TESTING CONCEPTS AND FIND THIS BOOK USEFUL PEOPLE WILL BE ABLE TO GAIN EXPERT KNOWLEDGE ON PENTESTING TOOLS AND CONCEPTS TABLE OF CONTENTS 1 INTRODUCTION TO SECURITY THREATS 2 APPLICATION SECURITY ESSENTIALS 3 PENTESTING METHODOLOGY 4 TESTING AUTHENTICATION FAILURES 5 TESTING SECURE SESSION MANAGEMENT 6 TESTING BROKEN ACCESS CONTROL 7 TESTING SENSITIVE DATA EXPOSURE 8 TESTING SECURE DATA VALIDATION 9 TECHNIQUES TO ATTACK APPLICATION USERS 10 TESTING SECURITY MISCONFIGURATIONS 11 AUTOMATING SECURITY ATTACKS 12 PENETRATION TESTING TOOLS 13 PEN TEST MANAGEMENT AND REPORTING 14 DEFENSE IN DEPTH 15 SECURITY TESTING IN CLOUD

TAGLINE LEARN HOW REAL LIFE HACKERS AND PENTESTERS BREAK INTO SYSTEMS KEY FEATURES DIVE DEEP INTO HANDS ON METHODOLOGIES DESIGNED TO FORTIFY WEB SECURITY AND PENETRATION TESTING GAIN INVALUABLE INSIGHTS FROM REAL WORLD CASE STUDIES THAT BRIDGE THEORY WITH PRACTICE LEVERAGE THE LATEST TOOLS FRAMEWORKS AND METHODOLOGIES TO ADAPT TO EVOLVING CYBERSECURITY LANDSCAPES AND MAINTAIN ROBUST WEB SECURITY POSTURE DESCRIPTION DISCOVER THE ESSENTIAL TOOLS AND INSIGHTS TO SAFEGUARD YOUR DIGITAL ASSETS WITH THE ULTIMATE PENTESTING FOR APPLICATIONS THIS ESSENTIAL RESOURCE COMPREHENSIVELY COVERS ETHICAL HACKING FUNDAMENTALS TO ADVANCED TESTING METHODOLOGIES MAKING IT A ONE STOP RESOURCE FOR WEB APPLICATION SECURITY KNOWLEDGE DELVE INTO THE INTRICACIES OF SECURITY TESTING IN WEB APPLICATIONS EXPLORING POWERFUL TOOLS LIKE BURP SUITE ZAP PROXY FIDDLER AND CHARLES PROXY REAL WORLD CASE STUDIES DISSECT RECENT SECURITY BREACHES OFFERING PRACTICAL INSIGHTS INTO IDENTIFYING VULNERABILITIES AND FORTIFYING WEB APPLICATIONS AGAINST ATTACKS THIS HANDBOOK PROVIDES STEP BY STEP TUTORIALS INSIGHTFUL DISCUSSIONS AND ACTIONABLE ADVICE SERVING AS A TRUSTED COMPANION FOR INDIVIDUALS ENGAGED IN WEB APPLICATION SECURITY EACH CHAPTER COVERS VITAL TOPICS FROM CREATING ETHICAL HACKING ENVIRONMENTS TO INCORPORATING PROXY TOOLS INTO WEB BROWSERS IT OFFERS ESSENTIAL KNOWLEDGE AND PRACTICAL SKILLS TO NAVIGATE THE INTRICATE CYBERSECURITY LANDSCAPE CONFIDENTLY BY THE END OF THIS BOOK YOU WILL GAIN THE EXPERTISE TO IDENTIFY PREVENT AND ADDRESS CYBER THREATS BOLSTERING THE RESILIENCE OF WEB APPLICATIONS IN THE MODERN DIGITAL ERA WHAT WILL YOU LEARN LEARN HOW TO FORTIFY YOUR DIGITAL ASSETS BY MASTERING THE CORE PRINCIPLES OF WEB APPLICATION SECURITY AND PENETRATION TESTING DIVE INTO HANDS ON TUTORIALS USING INDUSTRY LEADING TOOLS SUCH AS BURP SUITE ZAP PROXY FIDDLER AND CHARLES PROXY TO CONDUCT THOROUGH SECURITY TESTS ANALYZE REAL WORLD CASE STUDIES OF RECENT SECURITY BREACHES TO IDENTIFY VULNERABILITIES AND APPLY PRACTICAL TECHNIQUES TO SECURE WEB APPLICATIONS GAIN PRACTICAL SKILLS AND KNOWLEDGE THAT YOU CAN IMMEDIATELY APPLY TO ENHANCE THE SECURITY POSTURE OF YOUR WEB APPLICATIONS WHO IS THIS BOOK FOR THIS BOOK IS TAILORED FOR CYBERSECURITY ENTHUSIASTS ETHICAL HACKERS AND WEB DEVELOPERS SEEKING TO FORTIFY THEIR UNDERSTANDING OF WEB APPLICATION SECURITY PRIOR FAMILIARITY WITH BASIC CYBERSECURITY CONCEPTS AND PROGRAMMING FUNDAMENTALS PARTICULARLY IN PYTHON IS RECOMMENDED TO FULLY BENEFIT FROM THE CONTENT TABLE OF CONTENTS 1 THE BASICS OF ETHICAL HACKING 2 LINUX FUNDAMENTALS

IDENTIFY EXPLOIT AND TEST WEB APPLICATION SECURITY WITH EASE KEY FEATURESGET UP TO SPEED WITH METASPLOIT AND DISCOVER HOW TO USE IT FOR PENTESTINGUNDERSTAND HOW TO EXPLOIT AND PROTECT YOUR WEB ENVIRONMENT EFFECTIVELYLEARN HOW AN EXPLOIT WORKS AND WHAT CAUSES VULNERABILITIESBOOK DESCRIPTION METASPLOIT HAS BEEN A CRUCIAL SECURITY TOOL FOR MANY YEARS HOWEVER THERE ARE ONLY A FEW MODULES THAT METASPLOIT HAS MADE AVAILABLE TO THE PUBLIC FOR PENTESTING WEB APPLICATIONS IN THIS BOOK YOU LL EXPLORE ANOTHER ASPECT OF THE FRAMEWORK WEB APPLICATIONS WHICH IS NOT COMMONLY USED YOU LL ALSO DISCOVER HOW METASPLOIT WHEN USED WITH ITS INBUILT GUI SIMPLIFIES WEB APPLICATION PENETRATION TESTING THE BOOK STARTS BY FOCUSING ON THE METASPLOIT SETUP ALONG WITH COVERING THE LIFE CYCLE OF THE PENETRATION TESTING PROCESS THEN YOU WILL EXPLORE METASPLOIT TERMINOLOGY AND THE WEB GUI WHICH IS AVAILABLE IN THE METASPLOIT COMMUNITY EDITION NEXT THE BOOK WILL TAKE YOU THROUGH PENTESTING POPULAR CONTENT MANAGEMENT SYSTEMS SUCH AS DRUPAL WORDPRESS AND JOOMLA WHICH WILL ALSO INCLUDE STUDYING THE LATEST CVES AND UNDERSTANDING THE ROOT CAUSE OF VULNERABILITY IN DETAIL LATER YOU LL GAIN INSIGHTS INTO THE VULNERABILITY ASSESSMENT AND EXPLOITATION OF TECHNOLOGICAL PLATFORMS SUCH AS JBOSS JENKINS AND TOMCAT FINALLY YOU LL LEARN HOW TO FUZZ WEB APPLICATIONS TO FIND LOGICAL SECURITY VULNERABILITIES USING THIRD PARTY TOOLS BY THE END OF THIS BOOK YOU LL HAVE A SOLID UNDERSTANDING OF HOW TO EXPLOIT AND VALIDATE VULNERABILITIES BY WORKING WITH VARIOUS TOOLS AND TECHNIQUES WHAT YOU WILL LEARNGET UP TO SPEED WITH SETTING UP AND INSTALLING THE METASPLOIT FRAMEWORKGAIN FIRST HAND EXPERIENCE OF THE METASPLOIT WEB INTERFACEUSE METASPLOIT FOR WEB APPLICATION RECONNAISSANCEUNDERSTAND HOW TO PENTEST VARIOUS CONTENT MANAGEMENT SYSTEMSPENTEST PLATFORMS SUCH AS JBOSS TOMCAT AND JENKINSBECOME WELL VERSED WITH FUZZING WEB APPLICATIONSWRITE AND AUTOMATE PENETRATION TESTING REPORTSWHO THIS BOOK IS FOR THIS BOOK IS FOR WEB SECURITY ANALYSTS BUG BOUNTY HUNTERS SECURITY PROFESSIONALS OR ANY STAKEHOLDER IN THE SECURITY SECTOR WHO WANTS TO DELVE INTO WEB APPLICATION SECURITY TESTING PROFESSIONALS WHO ARE NOT EXPERTS WITH COMMAND LINE TOOLS OR KALI LINUX AND PREFER METASPLOIT S GRAPHICAL USER INTERFACE GUI WILL ALSO FIND THIS BOOK USEFUL NO EXPERIENCE WITH METASPLOIT IS REQUIRED BUT BASIC KNOWLEDGE OF LINUX AND WEB APPLICATION PENTESTING WILL BE HELPFUL

A HANDS ON BEGINNER FRIENDLY INTRO TO WEB APPLICATION PENTESTING IN A BEGINNER S GUIDE TO APPLICATION PENETRATION TESTING SEASONED CYBERSECURITY VETERAN ALI ABDOLLAHI DELIVERS A STARTLINGLY INSIGHTFUL AND UP TO DATE EXPLORATION OF WEB APP PENTESTING IN THE BOOK ALI TAKES A DUAL APPROACH EMPHASIZING BOTH THEORY AND PRACTICAL SKILLS EQUIPPING YOU TO JUMPSTART A NEW CAREER IN WEB APPLICATION SECURITY YOU LL LEARN ABOUT COMMON VULNERABILITIES AND HOW TO PERFORM A VARIETY OF EFFECTIVE ATTACKS ON WEB APPLICATIONS CONSISTENT WITH THE APPROACH PUBLICIZED BY THE OPEN APPLICATION SECURITY PROJECT OWASP THE BOOK EXPLAINS HOW TO FIND EXPLOIT AND COMBAT THE TEN MOST COMMON SECURITY VULNERABILITY CATEGORIES INCLUDING BROKEN ACCESS CONTROLS CRYPTOGRAPHIC FAILURES CODE INJECTION SECURITY MISCONFIGURATIONS AND MORE A BEGINNER S GUIDE TO APPLICATION PENETRATION TESTING WALKS YOU THROUGH THE FIVE MAIN STAGES OF A COMPREHENSIVE PENETRATION TEST SCOPING AND RECONNAISSANCE SCANNING GAINING AND MAINTAINING ACCESS ANALYSIS AND REPORTING YOU LL ALSO DISCOVER HOW TO USE SEVERAL POPULAR SECURITY TOOLS AND TECHNIQUES LIKE AS WELL AS DEMONSTRATIONS OF THE PERFORMANCE OF VARIOUS PENETRATION TESTING TECHNIQUES INCLUDING SUBDOMAIN ENUMERATION WITH SUBLIST3R AND SUBFINDER AND PORT SCANNING WITH NMAP STRATEGIES FOR ANALYZING AND IMPROVING THE SECURITY OF WEB APPLICATIONS AGAINST COMMON ATTACKS INCLUDING EXPLANATIONS OF THE INCREASING IMPORTANCE OF WEB APPLICATION SECURITY AND HOW TO USE TECHNIQUES LIKE INPUT VALIDATION DISABLING EXTERNAL ENTITIES TO MAINTAIN SECURITY PERFECT FOR SOFTWARE ENGINEERS NEW TO CYBERSECURITY SECURITY ANALYSTS WEB DEVELOPERS AND OTHER IT PROFESSIONALS A BEGINNER S GUIDE TO APPLICATION PENETRATION TESTING WILL ALSO EARN A PROMINENT PLACE IN THE LIBRARIES OF CYBERSECURITY STUDENTS AND ANYONE ELSE WITH AN INTEREST IN WEB APPLICATION SECURITY

GET HANDS ON EXPERIENCE IN USING BURP SUITE TO EXECUTE ATTACKS AND PERFORM WEB ASSESSMENTS KEY FEATURESEXPLORE THE TOOLS IN BURP SUITE TO MEET YOUR WEB INFRASTRUCTURE SECURITY DEMANDSCONFIGURE BURP TO FINE TUNE THE SUITE OF TOOLS SPECIFIC TO THE TARGETUSE BURP EXTENSIONS TO ASSIST WITH DIFFERENT TECHNOLOGIES COMMONLY FOUND IN APPLICATION STACKSBOOK DESCRIPTION BURP SUITE IS A JAVA BASED PLATFORM FOR TESTING THE SECURITY OF YOUR WEB APPLICATIONS AND HAS BEEN ADOPTED WIDELY BY PROFESSIONAL ENTERPRISE TESTERS THE BURP SUITE COOKBOOK CONTAINS RECIPES TO TACKLE CHALLENGES IN DETERMINING AND EXPLORING VULNERABILITIES IN WEB APPLICATIONS YOU WILL LEARN HOW TO UNCOVER SECURITY FLAWS WITH VARIOUS TEST CASES FOR COMPLEX ENVIRONMENTS AFTER YOU HAVE CONFIGURED BURP FOR YOUR ENVIRONMENT YOU WILL USE BURP TOOLS SUCH AS SPIDER SCANNER INTRUDER REPEATER AND DECODER AMONG OTHERS TO RESOLVE SPECIFIC PROBLEMS FACED BY PENTESTERS YOU WILL ALSO EXPLORE WORKING WITH VARIOUS MODES OF BURP AND THEN PERFORM OPERATIONS ON THE WEB TOWARD THE END YOU WILL COVER RECIPES THAT TARGET SPECIFIC TEST SCENARIOS AND RESOLVE THEM USING BEST PRACTICES BY THE END OF THE BOOK YOU WILL BE UP AND RUNNING WITH DEPLOYING BURP FOR SECURING WEB APPLICATIONS WHAT YOU WILL LEARNCONFIGURE BURP SUITE FOR YOUR WEB APPLICATIONSPERFORM AUTHENTICATION AUTHORIZATION BUSINESS LOGIC AND DATA VALIDATION TESTINGEXPLORE SESSION MANAGEMENT AND CLIENT SIDE TESTINGUNDERSTAND UNRESTRICTED FILE UPLOADS AND SERVER SIDE REQUEST FORGERYEXECUTE XML EXTERNAL ENTITY ATTACKS WITH BURPPERFORM REMOTE CODE EXECUTION WITH BURPWHO THIS BOOK IS FOR IF YOU ARE A SECURITY PROFESSIONAL WEB PENTESTER OR SOFTWARE DEVELOPER WHO WANTS TO ADOPT BURP SUITE FOR APPLICATIONS SECURITY THIS BOOK IS FOR YOU

THIS INNOVATIVE NEW RESOURCE PROVIDES BOTH PROFESSIONALS AND ASPIRING PROFESSIONALS WITH CLEAR GUIDANCE ON HOW TO IDENTIFY AND EXPLOIT COMMON WEB APPLICATION VULNERABILITIES THE BOOK FOCUSES ON OFFENSIVE SECURITY AND HOW TO ATTACK WEB APPLICATIONS IT DESCRIBES EACH OF THE OPEN APPLICATION SECURITY PROJECT OWASP TOP TEN VULNERABILITIES INCLUDING BROKEN AUTHENTICATION CROSS SITE SCRIPTING AND INSECURE DESERIALIZATION AND DETAILS HOW TO IDENTIFY AND EXPLOIT EACH WEAKNESS READERS LEARN TO BRIDGE THE GAP BETWEEN HIGH RISK VULNERABILITIES AND EXPLOITING FLAWS TO GET SHELL ACCESS THE BOOK DEMONSTRATES HOW TO WORK IN A PROFESSIONAL SERVICES SPACE TO PRODUCE QUALITY AND THOROUGH TESTING RESULTS BY DETAILING THE REQUIREMENTS OF PROVIDING A BEST OF CLASS PENETRATION TESTING SERVICE IT OFFERS INSIGHT INTO THE PROBLEM OF NOT KNOWING HOW TO APPROACH A WEB APP PEN TEST AND THE CHALLENGE OF INTEGRATING A MATURE PEN TESTING PROGRAM INTO AN ORGANIZATION BASED ON THE AUTHOR S MANY YEARS OF FIRST HAND EXPERIENCE THIS BOOK PROVIDES EXAMPLES OF HOW TO BREAK INTO USER ACCOUNTS HOW TO BREACH SYSTEMS AND HOW TO CONFIGURE AND WIELD PENETRATION TESTING TOOLS

BUILD YOUR DEFENSE AGAINST WEB ATTACKS WITH KALI LINUX 2 0 ABOUT THIS BOOK GAIN A DEEP UNDERSTANDING OF THE FLAWS IN WEB APPLICATIONS AND EXPLOIT THEM IN A PRACTICAL MANNER GET HANDS ON WEB APPLICATION HACKING EXPERIENCE WITH A RANGE OF TOOLS IN KALI LINUX 2 0 DEVELOP THE PRACTICAL SKILLS REQUIRED TO MASTER MULTIPLE TOOLS IN THE KALI LINUX 2 0 TOOLKIT WHO THIS BOOK IS FOR IF YOU ARE ALREADY WORKING AS A NETWORK PENETRATION TESTER AND WANT TO EXPAND YOUR KNOWLEDGE OF WEB APPLICATION HACKING THEN THIS BOOK TAILORED FOR YOU THOSE WHO ARE INTERESTED IN LEARNING MORE ABOUT THE KALI SANA TOOLS THAT ARE USED TO TEST WEB APPLICATIONS WILL FIND THIS BOOK A THOROUGHLY USEFUL AND INTERESTING GUIDE WHAT YOU WILL LEARN SET UP YOUR LAB WITH KALI LINUX 2 0 IDENTIFY THE DIFFERENCE BETWEEN HACKING A WEB APPLICATION AND NETWORK HACKING UNDERSTAND THE DIFFERENT TECHNIQUES USED TO IDENTIFY THE FLAVOR OF WEB APPLICATIONS EXPOSE VULNERABILITIES PRESENT IN WEB SERVERS AND THEIR APPLICATIONS USING SERVER SIDE ATTACKS USE SQL AND CROSS SITE SCRIPTING XSS ATTACKS CHECK FOR XSS FLAWS USING THE BURP SUITE PROXY FIND OUT ABOUT THE MITIGATION TECHNIQUES USED TO NEGATE THE EFFECTS OF THE INJECTION AND BLIND SQL ATTACKS IN DETAIL KALI LINUX 2 0 IS THE NEW GENERATION OF THE INDUSTRY LEADING BACKTRACK LINUX PENETRATION TESTING AND SECURITY AUDITING LINUX DISTRIBUTION IT CONTAINS SEVERAL HUNDRED TOOLS AIMED AT VARIOUS INFORMATION SECURITY TASKS SUCH AS PENETRATION TESTING FORENSICS AND REVERSE ENGINEERING AT THE BEGINNING OF THE BOOK YOU WILL BE INTRODUCED TO THE CONCEPTS OF HACKING AND PENETRATION TESTING AND WILL GET TO KNOW ABOUT THE TOOLS USED IN KALI LINUX 2 0 THAT RELATE TO WEB APPLICATION

HACKING THEN YOU WILL GAIN A DEEP UNDERSTANDING OF SQL AND COMMAND INJECTION FLAWS AND WAYS TO EXPLOIT THE FLAWS MOVING ON YOU WILL GET TO KNOW MORE ABOUT SCRIPTING AND INPUT VALIDATION FLAWS AJAX AND THE SECURITY ISSUES RELATED TO AJAX AT THE END OF THE BOOK YOU WILL USE AN AUTOMATED TECHNIQUE CALLED FUZZING TO BE ABLE TO IDENTIFY FLAWS IN A WEB APPLICATION FINALLY YOU WILL UNDERSTAND THE WEB APPLICATION VULNERABILITIES AND THE WAYS IN WHICH THEY CAN BE EXPLOITED USING THE TOOLS IN KALI LINUX 2 0 STYLE AND APPROACH THIS STEP BY STEP GUIDE COVERS EACH TOPIC WITH DETAILED PRACTICAL EXAMPLES EVERY CONCEPT IS EXPLAINED WITH THE HELP OF ILLUSTRATIONS USING THE TOOLS AVAILABLE IN KALI LINUX 2 0

LEVERAGE THE SIMPLICITY OF PYTHON AND AVAILABLE LIBRARIES TO BUILD WEB SECURITY TESTING TOOLS FOR YOUR APPLICATION KEY FEATURES UNDERSTAND THE WEB APPLICATION PENETRATION TESTING METHODOLOGY AND TOOLKIT USING PYTHON WRITE A WEB CRAWLER SPIDER WITH THE SCRAPY LIBRARY DETECT AND EXPLOIT SQL INJECTION VULNERABILITIES BY CREATING A SCRIPT ALL BY YOURSELF BOOK DESCRIPTION PENETRATION TESTING IS THE USE OF TOOLS AND CODE TO ATTACK A WEBSITE OR WEB APP IN ORDER TO ASSESS ITS VULNERABILITY TO EXTERNAL THREATS WHILE THERE ARE AN INCREASING NUMBER OF SOPHISTICATED READY MADE TOOLS TO SCAN SYSTEMS FOR VULNERABILITIES THE USE OF PYTHON ALLOWS YOU TO WRITE SYSTEM SPECIFIC SCRIPTS OR ALTER AND EXTEND EXISTING TESTING TOOLS TO FIND EXPLOIT AND RECORD AS MANY SECURITY WEAKNESSES AS POSSIBLE LEARNING PYTHON PENETRATION TESTING WILL WALK YOU THROUGH THE WEB APPLICATION PENETRATION TESTING METHODOLOGY SHOWING YOU HOW TO WRITE YOUR OWN TOOLS WITH PYTHON FOR EACH ACTIVITY THROUGHOUT THE PROCESS THE BOOK BEGINS BY EMPHASIZING THE IMPORTANCE OF KNOWING HOW TO WRITE YOUR OWN TOOLS WITH PYTHON FOR WEB APPLICATION PENETRATION TESTING YOU WILL THEN LEARN TO INTERACT WITH A WEB APPLICATION USING PYTHON UNDERSTAND THE ANATOMY OF AN HTTP REQUEST URL HEADERS AND MESSAGE BODY AND LATER CREATE A SCRIPT TO PERFORM A REQUEST AND INTERPRET THE RESPONSE AND ITS HEADERS AS YOU MAKE YOUR WAY THROUGH THE BOOK YOU WILL WRITE A WEB CRAWLER USING PYTHON AND THE SCRAPPY LIBRARY THE BOOK WILL ALSO HELP YOU TO DEVELOP A TOOL TO PERFORM BRUTE FORCE ATTACKS IN DIFFERENT PARTS OF THE WEB APPLICATION YOU WILL THEN DISCOVER MORE ON DETECTING AND EXPLOITING SQL INJECTION VULNERABILITIES BY THE END OF THIS BOOK YOU WILL HAVE SUCCESSFULLY CREATED AN HTTP PROXY BASED ON THE MITMPROXY TOOL WHAT YOU WILL LEARN INTERACT WITH A WEB APPLICATION USING THE PYTHON AND REQUESTS LIBRARIES CREATE A BASIC WEB APPLICATION CRAWLER AND MAKE IT RECURSIVE DEVELOP A BRUTE FORCE TOOL TO DISCOVER AND ENUMERATE RESOURCES SUCH AS FILES AND DIRECTORIES EXPLORE DIFFERENT AUTHENTICATION METHODS COMMONLY USED IN WEB APPLICATIONS ENUMERATE TABLE NAMES FROM A DATABASE USING SQL INJECTION UNDERSTAND THE WEB APPLICATION PENETRATION TESTING METHODOLOGY AND TOOLKIT WHO THIS BOOK IS FOR LEARNING PYTHON PENETRATION TESTING IS FOR WEB DEVELOPERS WHO WANT TO STEP INTO THE WORLD OF WEB APPLICATION SECURITY TESTING BASIC KNOWLEDGE OF PYTHON IS NECESSARY

PENETRATION TESTING WITH KALI LINUX CONTAINS VARIOUS PENETRATION TESTING METHODS USING BACKTRACK THAT WILL BE USED BY THE READER IT CONTAINS CLEAR STEP BY STEP INSTRUCTIONS WITH LOT OF SCREENSHOTS IT IS WRITTEN IN AN EASY TO UNDERSTAND LANGUAGE WHICH WILL FURTHER SIMPLIFY THE UNDERSTANDING FOR THE USER PENETRATION TESTING WITH KALI LINUX IS IDEAL FOR ANYONE WHO IS INTERESTED IN LEARNING HOW TO BECOME A PENETRATION TESTER IT WILL ALSO HELP THE USERS WHO ARE NEW TO KALI LINUX AND WANT TO LEARN THE FEATURES AND DIFFERENCES IN KALI VERSUS BACKTRACK AND SEASONED PENETRATION TESTERS WHO MAY NEED A REFRESHER OR REFERENCE ON NEW TOOLS AND TECHNIQUES BASIC FAMILIARITY WITH WEB BASED PROGRAMMING LANGUAGES SUCH AS PHP JAVASCRIPT AND MYSQL WILL ALSO PROVE HELPFUL

BUILD YOUR DEFENSE AGAINST WEB ATTACKS WITH KALI LINUX INCLUDING COMMAND INJECTION FLAWS CRYPTO IMPLEMENTATION LAYERS AND WEB APPLICATION SECURITY HOLES KEY FEATURES KNOW HOW TO SET UP YOUR LAB WITH KALI LINUX DISCOVER THE CORE CONCEPTS OF WEB PENETRATION TESTING GET THE TOOLS AND TECHNIQUES YOU NEED WITH KALI LINUX BOOK DESCRIPTION PENETRATION TESTING WITH KALI LINUX THIRD EDITION SHOWS YOU HOW TO SET UP A LAB HELPS YOU UNDERSTAND THE NATURE AND MECHANICS OF ATTACKING WEBSITES AND EXPLAINS CLASSICAL ATTACKS IN GREAT DEPTH THIS EDITION IS HEAVILY UPDATED FOR THE LATEST KALI LINUX

CHANGES AND THE MOST RECENT ATTACKS KALI LINUX SHINES WHEN IT COMES TO CLIENT SIDE ATTACKS AND FUZZING IN PARTICULAR FROM THE START OF THE BOOK YOU LL BE GIVEN A THOROUGH GROUNDING IN THE CONCEPTS OF HACKING AND PENETRATION TESTING AND YOU LL SEE THE TOOLS USED IN KALI LINUX THAT RELATE TO WEB APPLICATION HACKING YOU LL GAIN A DEEP UNDERSTANDING OF CLASSICALSQL COMMAND INJECTION FLAWS AND THE MANY WAYS TO EXPLOIT THESE FLAWS PENETRATION TESTING ALSO NEEDS A GENERAL OVERVIEW OF CLIENT SIDE ATTACKS WHICH IS ROUNDED OUT BY A LONG DISCUSSION OF SCRIPTING AND INPUT VALIDATION FLAWS THERE IS ALSO AN IMPORTANT CHAPTER ON CRYPTOGRAPHIC IMPLEMENTATION FLAWS WHERE WE DISCUSS THE MOST RECENT PROBLEMS WITH CRYPTOGRAPHIC LAYERS IN THE NETWORKING STACK THE IMPORTANCE OF THESE ATTACKS CANNOT BE OVERSTATED AND DEFENDING AGAINST THEM IS RELEVANT TO MOST INTERNET USERS AND OF COURSE PENETRATION TESTERS AT THE END OF THE BOOK YOU LL USE AN AUTOMATED TECHNIQUE CALLED FUZZING TO IDENTIFY FLAWS IN A WEB APPLICATION FINALLY YOU LL GAIN AN UNDERSTANDING OF WEB APPLICATION VULNERABILITIES AND THE WAYS THEY CAN BE EXPLOITED USING THE TOOLS IN KALI LINUX WHAT YOU WILL LEARN LEARN HOW TO SET UP YOUR LAB WITH KALI LINUX UNDERSTAND THE CORE CONCEPTS OF WEB PENETRATION TESTING GET TO KNOW THE TOOLS AND TECHNIQUES YOU NEED TO USE WITH KALI LINUX IDENTIFY THE DIFFERENCE BETWEEN HACKING A WEB APPLICATION AND NETWORK HACKING EXPOSE VULNERABILITIES PRESENT IN WEB SERVERS AND THEIR APPLICATIONS USING SERVER SIDE ATTACKS UNDERSTAND THE DIFFERENT TECHNIQUES USED TO IDENTIFY THE FLAVOR OF WEB APPLICATIONS SEE STANDARD ATTACKS SUCH AS EXPLOITING CROSS SITE REQUEST FORGERY AND CROSS SITE SCRIPTING FLAWS GET AN OVERVIEW OF THE ART OF CLIENT SIDE ATTACKS EXPLORE AUTOMATED ATTACKS SUCH AS FUZZING WEB APPLICATIONS WHO THIS BOOK IS FOR SINCE THIS BOOK SETS OUT TO COVER A LARGE NUMBER OF TOOLS AND SECURITY FIELDS IT CAN WORK AS AN INTRODUCTION TO PRACTICAL SECURITY SKILLS FOR BEGINNERS IN SECURITY IN ADDITION WEB PROGRAMMERS AND ALSO SYSTEM ADMINISTRATORS WOULD BENEFIT FROM THIS RIGOROUS INTRODUCTION TO WEB PENETRATION TESTING BASIC SYSTEM ADMINISTRATION SKILLS ARE NECESSARY AND THE ABILITY TO READ CODE IS A MUST

MASTER THE ART OF EXPLOITING ADVANCED WEB PENETRATION TECHNIQUES WITH KALI LINUX 2016 2 ABOUT THIS BOOK MAKE THE MOST OUT OF ADVANCED WEB PEN TESTING TECHNIQUES USING KALI LINUX 2016 2 EXPLORE HOW STORED A K A PERSISTENT XSS ATTACKS WORK AND HOW TO TAKE ADVANTAGE OF THEM LEARN TO SECURE YOUR APPLICATION BY PERFORMING ADVANCED WEB BASED ATTACKS BYPASS INTERNET SECURITY TO TRAVERSE FROM THE WEB TO A PRIVATE NETWORK WHO THIS BOOK IS FOR THIS BOOK TARGETS IT PEN TESTERS SECURITY CONSULTANTS AND ETHICAL HACKERS WHO WANT TO EXPAND THEIR KNOWLEDGE AND GAIN EXPERTISE ON ADVANCED WEB PENETRATION TECHNIQUES PRIOR KNOWLEDGE OF PENETRATION TESTING WOULD BE BENEFICIAL WHAT YOU WILL LEARN ESTABLISH A FULLY FEATURED SANDBOX FOR TEST REHEARSAL AND RISK FREE INVESTIGATION OF APPLICATIONS ENLIST OPEN SOURCE INFORMATION TO GET A HEAD START ON ENUMERATING ACCOUNT CREDENTIALS MAPPING POTENTIAL DEPENDENCIES AND DISCOVERING UNINTENDED BACKDOORS AND EXPOSED INFORMATION MAP SCAN AND SPIDER WEB APPLICATIONS USING NMAP ZENMAP NIKTO ARACHNI WEBSCARAB W3AF AND NETCAT FOR MORE ACCURATE CHARACTERIZATION PROXY WEB TRANSACTIONS THROUGH TOOLS SUCH AS BURP SUITE OWASP S ZAP TOOL AND VEGA TO UNCOVER APPLICATION WEAKNESSES AND MANIPULATE RESPONSES DEPLOY SQL INJECTION CROSS SITE SCRIPTING JAVA VULNERABILITIES AND OVERFLOW ATTACKS USING BURP SUITE WEBSPLOIT AND SQLMAP TO TEST APPLICATION ROBUSTNESS EVALUATE AND TEST IDENTITY AUTHENTICATION AND AUTHORIZATION SCHEMES AND SNIFF OUT WEAK CRYPTOGRAPHY BEFORE THE BLACK HATS DO IN DETAIL YOU WILL START BY DELVING INTO SOME COMMON WEB APPLICATION ARCHITECTURES IN USE BOTH IN PRIVATE AND PUBLIC CLOUD INSTANCES YOU WILL ALSO LEARN ABOUT THE MOST COMMON FRAMEWORKS FOR TESTING SUCH AS OWASP OGT VERSION 4 AND HOW TO USE THEM TO GUIDE YOUR EFFORTS IN THE NEXT SECTION YOU WILL BE INTRODUCED TO WEB PENTESTING WITH CORE TOOLS AND YOU WILL ALSO SEE HOW TO MAKE WEB APPLICATIONS MORE SECURE THROUGH RIGOROUS PENETRATION TESTS USING ADVANCED FEATURES IN OPEN SOURCE TOOLS THE BOOK WILL THEN SHOW YOU HOW TO BETTER HONE YOUR WEB PENTESTING SKILLS IN SAFE ENVIRONMENTS THAT CAN ENSURE LOW RISK EXPERIMENTATION WITH THE POWERFUL TOOLS AND FEATURES IN KALI LINUX THAT GO BEYOND A TYPICAL SCRIPT KIDDIE APPROACH AFTER ESTABLISHING HOW TO TEST THESE POWERFUL TOOLS SAFELY YOU WILL UNDERSTAND HOW TO BETTER IDENTIFY VULNERABILITIES POSITION AND DEPLOY EXPLOITS COMPROMISE AUTHENTICATION AND AUTHORIZATION AND TEST THE RESILIENCE AND EXPOSURE APPLICATIONS POSSESS BY THE END OF THIS BOOK YOU WILL BE WELL

VERSED WITH THE WEB SERVICE ARCHITECTURE TO IDENTIFY AND EVADE VARIOUS PROTECTION MECHANISMS THAT ARE USED ON THE TODAY YOU WILL LEAVE THIS BOOK WITH A GREATER MASTERY OF ESSENTIAL TEST TECHNIQUES NEEDED TO VERIFY THE SECURE DESIGN DEVELOPMENT AND OPERATION OF YOUR CUSTOMERS WEB APPLICATIONS STYLE AND APPROACH AN ADVANCED LEVEL GUIDE FILLED WITH REAL WORLD EXAMPLES THAT WILL HELP YOU TAKE YOUR WEB APPLICATION S SECURITY TO THE NEXT LEVEL BY USING KALI LINUX 2016 2

THIS COURSE WILL WALK YOU THROUGH THE WEB APPLICATION PENETRATION TESTING METHODOLOGY SHOWING YOU HOW TO WRITE YOUR OWN TOOLS WITH PYTHON FOR EVERY MAIN ACTIVITY IN THE PROCESS IT WILL SHOW YOU HOW TO TEST FOR SECURITY VULNERABILITIES IN WEB APPLICATIONS JUST LIKE SECURITY PROFESSIONALS AND HACKERS DO THE COURSE STARTS OFF BY PROVIDING AN OVERVIEW OF THE WEB APPLICATION PENETRATION TESTING PROCESS AND THE TOOLS USED BY PROFESSIONALS TO PERFORM THESE TESTS THEN WE PROVIDE AN INTRODUCTION TO HTTP AND HOW TO INTERACT WITH WEB APPLICATIONS USING PYTHON AND THE REQUESTS LIBRARY THEN WILL FOLLOW THE WEB APPLICATION PENETRATION TESTING METHODOLOGY AND COVER EACH SECTION WITH A SUPPORTING PYTHON EXAMPLE TO FINISH OFF WE TEST THESE TOOLS AGAINST A VULNERABLE WEB APPLICATION CREATED SPECIFICALLY FOR THIS COURSE RESOURCE DESCRIPTION PAGE

TEST FUZZ AND BREAK WEB APPLICATIONS AND SERVICES USING BURP SUITE S POWERFUL CAPABILITIES KEY FEATURESMASTER THE SKILLS TO PERFORM VARIOUS TYPES OF SECURITY TESTS ON YOUR WEB APPLICATIONSGET HANDS ON EXPERIENCE WORKING WITH COMPONENTS LIKE SCANNER PROXY INTRUDER AND MUCH MOREDISCOVER THE BEST WAY TO PENETRATE AND TEST WEB APPLICATIONSBOOK DESCRIPTION BURP SUITE IS A SET OF GRAPHIC TOOLS FOCUSED TOWARDS PENETRATION TESTING OF WEB APPLICATIONS BURP SUITE IS WIDELY USED FOR WEB PENETRATION TESTING BY MANY SECURITY PROFESSIONALS FOR PERFORMING DIFFERENT WEB LEVEL SECURITY TASKS THE BOOK STARTS BY SETTING UP THE ENVIRONMENT TO BEGIN AN APPLICATION PENETRATION TEST YOU WILL BE ABLE TO CONFIGURE THE CLIENT AND APPLY TARGET WHITELISTING YOU WILL ALSO LEARN TO SETUP AND CONFIGURE ANDROID AND IOS DEVICES TO WORK WITH BURP SUITE THE BOOK WILL EXPLAIN HOW VARIOUS FEATURES OF BURP SUITE CAN BE USED TO DETECT VARIOUS VULNERABILITIES AS PART OF AN APPLICATION PENETRATION TEST ONCE DETECTION IS COMPLETED AND THE VULNERABILITY IS CONFIRMED YOU WILL BE ABLE TO EXPLOIT A DETECTED VULNERABILITY USING BURP SUITE THE BOOK WILL ALSO COVERS ADVANCED CONCEPTS LIKE WRITING EXTENSIONS AND MACROS FOR BURP SUITE FINALLY YOU WILL DISCOVER VARIOUS STEPS THAT ARE TAKEN TO IDENTIFY THE TARGET DISCOVER WEAKNESSES IN THE AUTHENTICATION MECHANISM AND FINALLY BREAK THE AUTHENTICATION IMPLEMENTATION TO GAIN ACCESS TO THE ADMINISTRATIVE CONSOLE OF THE APPLICATION BY THE END OF THIS BOOK YOU WILL BE ABLE TO EFFECTIVELY PERFORM END TO END PENETRATION TESTING WITH BURP SUITE WHAT YOU WILL LEARNSET UP BURP SUITE AND ITS CONFIGURATIONS FOR AN APPLICATION PENETRATION TESTPROXY APPLICATION TRAFFIC FROM BROWSERS AND MOBILE DEVICES TO THE SERVERDISCOVER AND IDENTIFY APPLICATION SECURITY ISSUES IN VARIOUS SCENARIOSEXPLOIT DISCOVERED VULNERABILITIES TO EXECUTE COMMANDSEXPLOIT DISCOVERED VULNERABILITIES TO GAIN ACCESS TO DATA IN VARIOUS DATASTORESWRITE YOUR OWN BURP SUITE PLUGIN AND EXPLORE THE INFILTRATOR MODULEWRITE MACROS TO AUTOMATE TASKS IN BURP SUITEWHO THIS BOOK IS FOR IF YOU ARE INTERESTED IN LEARNING HOW TO TEST WEB APPLICATIONS AND THE WEB PART OF MOBILE APPLICATIONS USING BURP THEN THIS IS THE BOOK FOR YOU IT IS SPECIFICALLY DESIGNED TO MEET YOUR NEEDS IF YOU HAVE BASIC EXPERIENCE IN USING BURP AND ARE NOW AIMING TO BECOME A PROFESSIONAL BURP USER

WRITTEN IN AN EASY TO FOLLOW APPROACH USING HANDS ON EXAMPLES THIS BOOK HELPS YOU CREATE VIRTUAL ENVIRONMENTS FOR ADVANCED PENETRATION TESTING ENABLING YOU TO BUILD A MULTI LAYERED ARCHITECTURE TO INCLUDE FIREWALLS IDS IPS WEB APPLICATION FIREWALLS AND ENDPOINT PROTECTION WHICH IS ESSENTIAL IN THE PENETRATION TESTING WORLD IF YOU ARE A PENETRATION TESTER SECURITY CONSULTANT SECURITY TEST ENGINEER OR ANALYST WHO WANTS TO PRACTICE AND PERFECT PENETRATION TESTING SKILLS BY BUILDING VIRTUAL PENTESTING LABS IN VARYING INDUSTRY SCENARIOS THIS IS THE BOOK FOR YOU THIS BOOK IS IDEAL IF YOU WANT TO BUILD AND ENHANCE YOUR EXISTING PENTESTING METHODS AND SKILLS BASIC KNOWLEDGE OF NETWORK SECURITY FEATURES IS EXPECTED ALONG WITH WEB APPLICATION TESTING EXPERIENCE

PENETRATION TESTERS SIMULATE CYBER ATTACKS TO FIND SECURITY WEAKNESSES IN NETWORKS OPERATING SYSTEMS AND APPLICATIONS INFORMATION SECURITY EXPERTS WORLDWIDE USE PENETRATION TECHNIQUES TO EVALUATE ENTERPRISE DEFENSES IN PENETRATION TESTING SECURITY EXPERT RESEARCHER AND TRAINER GEORGIA WEIDMAN INTRODUCES YOU TO THE CORE SKILLS AND TECHNIQUES THAT EVERY PENTESTER NEEDS USING A VIRTUAL MACHINE BASED LAB THAT INCLUDES KALI LINUX AND VULNERABLE OPERATING SYSTEMS YOU LL RUN THROUGH A SERIES OF PRACTICAL LESSONS WITH TOOLS LIKE WIRESHARK NMAP AND BURP SUITE AS YOU FOLLOW ALONG WITH THE LABS AND LAUNCH ATTACKS YOU LL EXPERIENCE THE KEY STAGES OF AN ACTUAL ASSESSMENT INCLUDING INFORMATION GATHERING FINDING EXPLOITABLE VULNERABILITIES GAINING ACCESS TO SYSTEMS POST EXPLOITATION AND MORE LEARN HOW TO CRACK PASSWORDS AND WIRELESS NETWORK KEYS WITH BRUTE FORCING AND WORDLISTS TEST WEB APPLICATIONS FOR VULNERABILITIES USE THE METASPLOIT FRAMEWORK TO LAUNCH EXPLOITS AND WRITE YOUR OWN METASPLOIT MODULES AUTOMATE SOCIAL ENGINEERING ATTACKS BYPASS ANTIVIRUS SOFTWARE TURN ACCESS TO ONE MACHINE INTO TOTAL CONTROL OF THE ENTERPRISE IN THE POST EXPLOITATION PHASE YOU LL EVEN EXPLORE WRITING YOUR OWN EXPLOITS THEN IT S ON TO MOBILE HACKING WEIDMAN S PARTICULAR AREA OF RESEARCH WITH HER TOOL THE SMARTPHONE PENTEST FRAMEWORK WITH ITS COLLECTION OF HANDS ON LESSONS THAT COVER KEY TOOLS AND STRATEGIES PENETRATION TESTING IS THE INTRODUCTION THAT EVERY ASPIRING HACKER NEEDS

BUILD YOUR DEFENSE AGAINST WEB ATTACKS WITH KALI LINUX 2 0ABOUT THIS BOOK GAIN A DEEP UNDERSTANDING OF THE FLAWS IN WEB APPLICATIONS AND EXPLOIT THEM IN A PRACTICAL MANNER GET HANDS ON WEB APPLICATION HACKING EXPERIENCE WITH A RANGE OF TOOLS IN KALI LINUX 2 0 DEVELOP THE PRACTICAL SKILLS REQUIRED TO MASTER MULTIPLE TOOLS IN THE KALI LINUX 2 0 TOOLKITWHO THIS BOOK IS FORIF YOU ARE ALREADY WORKING AS A NETWORK PENETRATION TESTER AND WANT TO EXPAND YOUR KNOWLEDGE OF WEB APPLICATION HACKING THEN THIS BOOK TAILORED FOR YOU THOSE WHO ARE INTERESTED IN LEARNING MORE ABOUT THE KALI SANA TOOLS THAT ARE USED TO TEST WEB APPLICATIONS WILL FIND THIS BOOK A THOROUGHLY USEFUL AND INTERESTING GUIDE WHAT YOU WILL LEARN SET UP YOUR LAB WITH KALI LINUX 2 0 IDENTIFY THE DIFFERENCE BETWEEN HACKING A WEB APPLICATION AND NETWORK HACKING UNDERSTAND THE DIFFERENT TECHNIQUES USED TO IDENTIFY THE FLAVOR OF WEB APPLICATIONS EXPOSE VULNERABILITIES PRESENT IN WEB SERVERS AND THEIR APPLICATIONS USING SERVER SIDE ATTACKS USE SQL AND CROSS SITE SCRIPTING XSS ATTACKS CHECK FOR XSS FLAWS USING THE BURP SUITE PROXY FIND OUT ABOUT THE MITIGATION TECHNIQUES USED TO NEGATE THE EFFECTS OF THE INJECTION AND BLIND SQL ATTACKSIN DETAILKALI LINUX 2 0 IS THE NEW GENERATION OF THE INDUSTRY LEADING BACKTRACK LINUX PENETRATION TESTING AND SECURITY AUDITING LINUX DISTRIBUTION IT CONTAINS SEVERAL HUNDRED TOOLS AIMED AT VARIOUS INFORMATION SECURITY TASKS SUCH AS PENETRATION TESTING FORENSICS AND REVERSE ENGINEERING AT THE BEGINNING OF THE BOOK YOU WILL BE INTRODUCED TO THE CONCEPTS OF HACKING AND PENETRATION TESTING AND WILL GET TO KNOW ABOUT THE TOOLS USED IN KALI LINUX 2 0 THAT RELATE TO WEB APPLICATION HACKING THEN YOU WILL GAIN A DEEP UNDERSTANDING OF SQL AND COMMAND INJECTION FLAWS AND WAYS TO EXPLOIT THE FLAWS MOVING ON YOU WILL GET TO KNOW MORE ABOUT SCRIPTING AND INPUT VALIDATION FLAWS AJAX AND THE SECURITY ISSUES RELATED TO AJAX AT THE END OF THE BOOK YOU WILL USE AN AUTOMATED TECHNIQUE CALLED FUZZING TO BE ABLE TO IDENTIFY FLAWS IN A WEB APPLICATION FINALLY YOU WILL UNDERSTAND THE WEB APPLICATION VULNERABILITIES AND THE WAYS IN WHICH THEY CAN BE EXPLOITED USING THE TOOLS IN KALI LINUX 2 0 STYLE AND APPROACHTHIS STEP BY STEP GUIDE COVERS EACH TOPIC WITH DETAILED PRACTICAL EXAMPLES EVERY CONCEPT IS EXPLAINED WITH THE HELP OF ILLUSTRATIONS USING THE TOOLS AVAILABLE IN KALI LINUX 2 0

DISCOVER SECURITY POSTURE VULNERABILITIES AND BLIND SPOTS AHEAD OF THE THREAT ACTOR KEY FEATURES INCLUDES ILLUSTRATIONS AND REAL WORLD EXAMPLES OF PENTESTING WEB APPLICATIONS REST APIS THICK CLIENTS MOBILE APPLICATIONS AND WIRELESS NETWORKS COVERS NUMEROUS TECHNIQUES SUCH AS FUZZING FFUF DYNAMIC SCANNING SECURE CODE REVIEW AND BYPASS TESTING PRACTICAL APPLICATION OF NMAP METASPLOIT SQLMAP OWASP ZAP WIRESHARK AND KALI LINUX DESCRIPTION THE ETHICAL HACKER S PENETRATION TESTING GUIDE IS A HANDS ON GUIDE THAT WILL TAKE YOU FROM THE FUNDAMENTALS OF PEN TESTING TO ADVANCED SECURITY TESTING TECHNIQUES THIS BOOK EXTENSIVELY USES POPULAR PEN TESTING TOOLS SUCH AS NMAP BURP SUITE METASPLOIT

SQLMAP OWASP ZAP AND KALI LINUX A DETAILED ANALYSIS OF PENTESTING STRATEGIES FOR DISCOVERING OWASP TOP 10 VULNERABILITIES SUCH AS CROSS SITE SCRIPTING XSS SQL INJECTION XXE FILE UPLOAD VULNERABILITIES ETC ARE EXPLAINED IT PROVIDES A HANDS ON DEMONSTRATION OF PENTEST APPROACHES FOR THICK CLIENT APPLICATIONS MOBILE APPLICATIONS ANDROID NETWORK SERVICES AND WIRELESS NETWORKS OTHER TECHNIQUES SUCH AS FUZZING DYNAMIC SCANNING DAST AND SO ON ARE ALSO DEMONSTRATED SECURITY LOGGING HARMFUL ACTIVITY MONITORING AND PENTESTING FOR SENSITIVE DATA ARE ALSO INCLUDED IN THE BOOK THE BOOK ALSO COVERS WEB SECURITY AUTOMATION WITH THE HELP OF WRITING EFFECTIVE PYTHON SCRIPTS THROUGH A SERIES OF LIVE DEMONSTRATIONS AND REAL WORLD USE CASES YOU WILL LEARN HOW TO BREAK APPLICATIONS TO EXPOSE SECURITY FLAWS DETECT THE VULNERABILITY AND EXPLOIT IT APPROPRIATELY THROUGHOUT THE BOOK YOU WILL LEARN HOW TO IDENTIFY SECURITY RISKS AS WELL AS A FEW MODERN CYBERSECURITY APPROACHES AND POPULAR PENTESTING TOOLS WHAT YOU WILL LEARN EXPOSE THE OWASP TOP TEN VULNERABILITIES FUZZING AND DYNAMIC SCANNING GET WELL VERSED WITH VARIOUS PENTESTING TOOLS FOR WEB MOBILE AND WIRELESS PENTESTING INVESTIGATE HIDDEN VULNERABILITIES TO SAFEGUARD CRITICAL DATA AND APPLICATION COMPONENTS IMPLEMENT SECURITY LOGGING APPLICATION MONITORING AND SECURE CODING LEARN ABOUT VARIOUS PROTOCOLS PENTESTING TOOLS AND ETHICAL HACKING METHODS WHO THIS BOOK IS FOR THIS BOOK IS INTENDED FOR PEN TESTERS ETHICAL HACKERS SECURITY ANALYSTS CYBER PROFESSIONALS SECURITY CONSULTANTS AND ANYBODY INTERESTED IN LEARNING ABOUT PENETRATION TESTING TOOLS AND METHODOLOGIES KNOWING CONCEPTS OF PENETRATION TESTING IS PREFERABLE BUT NOT REQUIRED TABLE OF CONTENTS 1 OVERVIEW OF AND RELATED TECHNOLOGIES AND UNDERSTANDING THE APPLICATION 2 PENETRATION TESTING THROUGH CODE REVIEW 3 PENETRATION TESTING INJECTION ATTACKS 4 FUZZING DYNAMIC SCANNING OF REST API AND APPLICATION 5 PENETRATION TESTING UNVALIDATED REDIRECTS FORWARDS SSRF 6 PENTESTING FOR AUTHENTICATION AUTHORIZATION BYPASS AND BUSINESS LOGIC FLAWS 7 PENTESTING FOR SENSITIVE DATA VULNERABLE COMPONENTS SECURITY MONITORING 8 EXPLOITING FILE UPLOAD FUNCTIONALITY AND XXE ATTACK 9 PENETRATION TESTING THICK CLIENT 10 INTRODUCTION TO NETWORK PENTESTING 11 INTRODUCTION TO WIRELESS PENTESTING 12 PENETRATION TESTING MOBILE APP 13 SECURITY AUTOMATION FOR PENTEST 14 SETTING UP PENTEST LAB

TESTING WEB SECURITY IS BEST DONE THROUGH SIMULATING AN ATTACK KALI LINUX LETS YOU DO THIS TO PROFESSIONAL STANDARDS AND THIS IS THE BOOK YOU NEED TO BE FULLY UP TO SPEED WITH THIS POWERFUL OPEN SOURCE TOOLKIT OVERVIEW LEARN KEY RECONNAISSANCE CONCEPTS NEEDED AS A PENETRATION TESTER ATTACK AND EXPLOIT KEY FEATURES AUTHENTICATION AND SESSIONS ON WEB APPLICATIONS LEARN HOW TO PROTECT SYSTEMS WRITE REPORTS AND SELL WEB PENETRATION TESTING SERVICES IN DETAIL KALI LINUX IS BUILT FOR PROFESSIONAL PENETRATION TESTING AND SECURITY AUDITING IT IS THE NEXT GENERATION OF BACKTRACK THE MOST POPULAR OPEN SOURCE PENETRATION TOOLKIT IN THE WORLD READERS WILL LEARN HOW TO THINK LIKE REAL ATTACKERS EXPLOIT SYSTEMS AND EXPOSE VULNERABILITIES EVEN THOUGH WEB APPLICATIONS ARE DEVELOPED IN A VERY SECURE ENVIRONMENT AND HAVE AN INTRUSION DETECTION SYSTEM AND FIREWALL IN PLACE TO DETECT AND PREVENT ANY MALICIOUS ACTIVITY OPEN PORTS ARE A PRE REQUISITE FOR CONDUCTING ONLINE BUSINESS THESE PORTS SERVE AS AN OPEN DOOR FOR ATTACKERS TO ATTACK THESE APPLICATIONS AS A RESULT PENETRATION TESTING BECOMES ESSENTIAL TO TEST THE INTEGRITY OF WEB APPLICATIONS PENETRATION TESTING WITH KALI LINUX IS A HANDS ON GUIDE THAT WILL GIVE YOU STEP BY STEP METHODS ON FINDING VULNERABILITIES AND EXPLOITING WEB APPLICATIONS PENETRATION TESTING WITH KALI LINUX LOOKS AT THE ASPECTS OF WEB PENETRATION TESTING FROM THE MIND OF AN ATTACKER IT PROVIDES REAL WORLD PRACTICAL STEP BY STEP INSTRUCTIONS ON HOW TO PERFORM WEB PENETRATION TESTING EXERCISES YOU WILL LEARN HOW TO USE NETWORK RECONNAISSANCE TO PICK YOUR TARGETS AND GATHER INFORMATION THEN YOU WILL USE SERVER SIDE ATTACKS TO EXPOSE VULNERABILITIES IN WEB SERVERS AND THEIR APPLICATIONS CLIENT ATTACKS WILL EXPLOIT THE WAY END USERS USE WEB APPLICATIONS AND THEIR WORKSTATIONS YOU WILL ALSO LEARN HOW TO USE OPEN SOURCE TOOLS TO WRITE REPORTS AND GET TIPS ON HOW TO SELL PENETRATION TESTS AND LOOK OUT FOR COMMON PITFALLS ON THE COMPLETION OF THIS BOOK YOU WILL HAVE THE SKILLS NEEDED TO USE KALI LINUX FOR WEB PENETRATION TESTS AND EXPOSE VULNERABILITIES ON WEB APPLICATIONS AND CLIENTS THAT ACCESS THEM WHAT YOU WILL LEARN FROM THIS BOOK PERFORM VULNERABILITY RECONNAISSANCE TO GATHER INFORMATION ON YOUR TARGETS EXPOSE SERVER VULNERABILITIES AND TAKE ADVANTAGE OF THEM TO GAIN PRIVILEGED ACCESS

EXPLOIT CLIENT BASED SYSTEMS USING WEB APPLICATION PROTOCOLS LEARN HOW TO USE SQL AND CROSS SITE SCRIPTING XSS ATTACKS STEAL AUTHENTICATIONS THROUGH SESSION HIJACKING TECHNIQUES HARDEN SYSTEMS SO OTHER ATTACKERS DO NOT EXPLOIT THEM EASILY GENERATE REPORTS FOR PENETRATION TESTERS LEARN TIPS AND TRADE SECRETS FROM REAL WORLD PENETRATION TESTERS APPROACH PENETRATION TESTING WITH KALI LINUX CONTAINS VARIOUS PENETRATION TESTING METHODS USING BACKTRACK THAT WILL BE USED BY THE READER IT CONTAINS CLEAR STEP BY STEP INSTRUCTIONS WITH LOT OF SCREENSHOTS IT IS WRITTEN IN AN EASY TO UNDERSTAND LANGUAGE WHICH WILL FURTHER SIMPLIFY THE UNDERSTANDING FOR THE USER

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

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