

Build Security Into Devops

Systems Analysis and Design David P. Tegarden 2025-07-09 Enables readers to analyze and design systems — not just read about IT Systems Analysis and Design: An Object-Oriented Approach with UML, Seventh Edition captures the dynamic aspects of the field by keeping students focused on doing SAD while presenting the core set of skills that every systems analyst needs to know today and in the future. The team of expert authors introduces each major technique, explains what it is, explains how to do it, presents an example, and provides opportunities for students to practice before they do it for real in a project. After reading each chapter, students will be able to perform that step in the system development process. NEW TO THIS EDITION A greater emphasis on developing information systems using an incremental and iterative approach and verifying, validating, and testing throughout the book Chapter on agile development Chapter that overviews the supporting workflows of the Unified Process Greatly expanded the Library Management System (LMS) example integrated throughout the chapters Converted the Campus Housing example to a set of “Your Turn” exercises. Also, suggested answers to each exercise are included in the Instructor’s Manual Appendix section on sequence, decision, and looping/repeating programming structures New and expanded sections on storytelling, NoSQL, data distribution and peer-to-peer architecture Expanded coverage of the interdependencies among the functional (Chapter 3), structural (Chapter 4), and behavioral (Chapter 5) models New and revised figures throughout the book Updated MS Word templates that can be used for system requests, system proposals, use case descriptions, CRC cards, contracts, method specifications, use case test plan, class test plan, and class invariant test specifications WILEY ADVANTAGE Focuses on real-world application by guiding students through practice problems and using the technique in a projectPresents a contemporary, object-oriented approach using UML (Unified Modeling Language)Integrates stories, feedback, and advice from a diverse industry advisory board of IS professionals and consultantsProvides chapters that each cover a different step in the Systems Development Life Cycle (SDLC) process

Mike Meyers CompTIA Security+ Certification Passport, Sixth Edition (Exam SY0-601) Dawn Dunkerley 2021-01-01 This quick review, cram-style study guide offers 100% coverage of every topic on the latest version of the CompTIA Security+ exam Get on the fast track to becoming CompTIA Security+ certified with this affordable, portable study tool. Inside, cybersecurity experts guide you on your exam preparation path, providing insightful tips and sound advice along the way. With an intensive focus on only what you need to know to pass the CompTIA Security+ Exam SY0-601, this certification passport is your ticket to success on exam day. TECHNICAL BULLETS: Inside: Practice questions and content review after each objective prepare you for exam mastery Exam Tips identify critical content to prepare for Updated information on real-world cyberattacks Enhanced coverage of emerging topics, such as Internet of Things (IoT) and cloud security Covers all exam topics, including how to: Understand attacks, threats, and vulnerabilities Assess the security posture of an enterprise environment Recommend and implement appropriate security solutions Monitor and secure hybrid environments, including cloud, mobile, and IoT Operate with an awareness of applicable laws and policies, including the principles of governance, risk, and compliance Identify, analyze, and respond to security events and incidents Online content includes: 200 practice exam questions

AWS Certified Security Specialty All-in-One Exam Guide (Exam SCS-C01) Tracy Pierce 2021-02-26 This self-study resource offers complete coverage of every topic on the AWS Certified Security Specialty exam Take the AWS Certified Security - Specialty exam with confidence using the detailed information contained in this effective self-study resource. Written by a team of AWS insiders, the book shows how to develop, deploy, and maintain robust security protocols on Amazon Web Services. AWS Certified Security Specialty All-in-One Exam Guide (Exam SCS-C01) covers every objective for the exam and provides comprehensive content on cloud-based security. To aid in study, each chapter includes exam tips, chapter summaries, and practice questions that simulate those on the live test. Designed to help you pass the exam with ease, this

hands-on guide also serves as an ideal on-the-job reference. Covers all exam topics, including: Cloud security event investigation Cloud security event remediation and planning Monitoring with Amazon CloudWatch Enhanced security monitoring and compliance with AWS services Logging on AWS AWS cryptographic services and tools Designing edge security on AWS Designing and implementing a secure network infrastructure Troubleshooting a secure network infrastructure Designing and implementing host-based security AWS identity and access management Troubleshooting authorization and authentication services Online content includes: 130 practice exam questions Fully customizable exam engine Downloadable code

Securing DevOps Julien Vehent 2018-08-20 Summary Securing DevOps explores how the techniques of DevOps and security should be applied together to make cloud services safer. This introductory book reviews the latest practices used in securing web applications and their infrastructure and teaches you techniques to integrate security directly into your product. You'll also learn the core concepts of DevOps, such as continuous integration, continuous delivery, and infrastructure as a service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology An application running in the cloud can benefit from incredible efficiencies, but they come with unique security threats too. A DevOps team's highest priority is understanding those risks and hardening the system against them. About the Book Securing DevOps teaches you the essential techniques to secure your cloud services. Using compelling case studies, it shows you how to build security into automated testing, continuous delivery, and other core DevOps processes. This experience-rich book is filled with mission-critical strategies to protect web applications against attacks, deter fraud attempts, and make your services safer when operating at scale. You'll also learn to identify, assess, and secure the unique vulnerabilities posed by cloud deployments and automation tools commonly used in modern infrastructures. What's inside An approach to continuous security Implementing test-driven security in DevOps Security techniques for cloud services Watching for fraud and responding to incidents Security testing and risk assessment About the Reader Readers should be comfortable with Linux and standard DevOps practices like CI, CD, and unit testing. About the Author Julien Vehent is a security architect and DevOps advocate. He leads the Firefox Operations Security team at Mozilla, and is responsible for the security of Firefox's high-traffic cloud services and public websites. Table of Contents Securing DevOps PART 1 - Case study: applying layers of security to a simple DevOps pipeline Building a barebones DevOps pipeline Security layer 1: protecting web applications Security layer 2: protecting cloud infrastructures Security layer 3: securing communications Security layer 4: securing the delivery pipeline PART 2 - Watching for anomalies and protecting services against attacks Collecting and storing logs Analyzing logs for fraud and attacks Detecting intrusions The Caribbean breach: a case study in incident response PART 3 - Maturing DevOps security Assessing risks Testing security Continuous security

Building in Security at Agile Speed James Ransome 2021-04-20 Today's high-speed and rapidly changing development environments demand equally high-speed security practices. Still, achieving security remains a human endeavor, a core part of designing, generating and verifying software. Dr. James Ransome and Brook S.E. Schoenfield have built upon their previous works to explain that security starts with people; ultimately, humans generate software security. People collectively act through a particular and distinct set of methodologies, processes, and technologies that the authors have brought together into a newly designed, holistic, generic software development lifecycle facilitating software security at Agile, DevOps speed. —Eric. S. Yuan, Founder and CEO, Zoom Video Communications, Inc. It is essential that we embrace a mantra that ensures security is baked in throughout any development process. Ransome and Schoenfield leverage their abundance of experience and knowledge to clearly define why and how we need to build this new model around an understanding that the human element is the ultimate key to success. —Jennifer Sunshine Steffens, CEO of IOActive Both practical and strategic, Building in Security at Agile Speed is an invaluable resource for change leaders committed to building secure software solutions in a world

characterized by increasing threats and uncertainty. Ransome and Schoenfield brilliantly demonstrate why creating robust software is a result of not only technical, but deeply human elements of agile ways of working. —Jorgen Hesselberg, author of *Unlocking Agility* and Cofounder of Comparative Agility The proliferation of open source components and distributed software services makes the principles detailed in *Building in Security at Agile Speed* more relevant than ever. Incorporating the principles and detailed guidance in this book into your SDLC is a must for all software developers and IT organizations. —George K Tsantes, CEO of Cyberphos, former partner at Accenture and Principal at EY Detailing the people, processes, and technical aspects of software security, *Building in Security at Agile Speed* emphasizes that the people element remains critical because software is developed, managed, and exploited by humans. This book presents a step-by-step process for software security that uses today's technology, operational, business, and development methods with a focus on best practice, proven activities, processes, tools, and metrics for any size or type of organization and development practice.

CISSP All-in-One Exam Guide, Eighth Edition Shon Harris 2018-10-26 A new edition of Shon Harris' bestselling exam prep guide—fully updated for the new CISSP 2018 Common Body of Knowledge This effective self-study guide fully prepares you for the challenging CISSP exam and offers 100% coverage of all exam domains. This edition has been thoroughly revised to cover the new CISSP 2018 Common Body of Knowledge, hot spot and drag and drop question formats, and more. *CISSP All-in-One Exam Guide, Eighth Edition* features hands-on exercises as well as “Notes,” “Tips,” and “Cautions” that provide real-world insight and call out potentially harmful situations. Each chapter features learning objectives, exam tips, and practice questions with in-depth answer explanations. Beyond exam prep, the guide also serves as an ideal on-the-job reference for IT security professionals. • Fully updated to cover 2018 exam objectives and question formats • Digital content includes access to the Total Tester test engine with 1500 practice questions, and flashcards • Serves as an essential on-the-job-reference

The Live Enterprise: Create a Continuously Evolving and Learning Organization Jeff Kavanaugh 2021-01-26 Named a Best Business Book of 2021 by Soundview Magazine Transform your organization into a constantly learning, ever-evolving industry leader with the proven operating model of leading global firms. For decades, leaders of large, complex organizations have been rightfully encouraged to run their organizations like lean, agile startups. More often than not, they place their bets on trends like digital transformation or design thinking. Well-intended, yet in isolation they are not enough. There's another, better way to drive durable, effective change in your organization, and it's been proven effective by global IT and business consulting leader Infosys. The Live Enterprise operating model provides a clear path to transform large complex businesses into agile, digital ecosystems that evolve with changing market needs and scale to any size. You'll learn how to apply the benefits of the startup operating model—but go much further. This groundbreaking guide addresses issues critical to transform large organizations, such as: Create an organizational structure that drives collaboration, innovation, strategic alignment, and new culture across distributed interconnected teams Respond quickly yet thoughtfully—and scientifically—to opportunities to create valuable new employee and customer experiences Reengineer your value chain to see what's missing, what can be improved, and what can be eliminated to generate exponential value Automate systems so routine decisions can be acted upon with maximum human intuition and minimum human intervention Groundbreaking in theory and long-term strategy, this game-changing guide includes practical steps you can take now—for immediate, concrete results—while laying the groundwork to operate with agility in the future. The application of Live Enterprise enabled Infosys to make the kinds of changes during the COVID crisis to not only survive but drive outstanding financial results. Now, you can use this innovative approach to position your company for the highly unpredictable future ahead.

CSSLP Certified Secure Software Lifecycle Professional All-in-One Exam Guide, Third Edition Wm. Arthur Conklin 2022-02-04 Providing 100% coverage of the latest CSSLP exam, this self-study guide offers everything you need to ace the exam *CSSLP Certified Secure Software Lifecycle Professional All-in-One Exam Guide, Third Edition* covers all eight exam domains of the challenging CSSLP exam, developed by the International Information Systems Security Certification Consortium (ISC)². Thoroughly revised and updated for the latest exam release, this guide includes real-world examples and comprehensive coverage on all aspects of application security within the entire software development lifecycle. It also includes

hands-on exercises, chapter review summaries and notes, tips, and cautions that provide real-world insight and call out potentially harmful situations. With access to 350 exam questions online, you can practice either with full-length, timed mock exams or by creating your own custom quizzes by chapter or exam objective. *CSSLP Certification All-in-One Exam Guide, Third Edition* provides thorough coverage of all eight exam domains: Secure Software Concepts Secure Software Requirements Secure Software Design Secure Software Implementation Programming Secure Software Testing Secure Lifecycle Management Software Deployment, Operations, and Maintenance Supply Chain and Software Acquisition

Systems Analysis and Design Alan Dennis 2020-11-26 *Systems Analysis and Design: An Object-Oriented Approach with UML, Sixth Edition* helps students develop the core skills required to plan, design, analyze, and implement information systems. Offering a practical hands-on approach to the subject, this textbook is designed to keep students focused on doing SAD, rather than simply reading about it. Each chapter describes a specific part of the SAD process, providing clear instructions, a detailed example, and practice exercises. Students are guided through the topics in the same order as professional analysts working on a typical real-world project. Now in its sixth edition, this edition has been carefully updated to reflect current methods and practices in SAD and prepare students for their future roles as systems analysts. Every essential area of systems analysis and design is clearly and thoroughly covered, from project management, to analysis and design modeling, to construction, installation, and operations. The textbook includes access to a range of teaching and learning resources, and a running case study of a fictitious healthcare company that shows students how SAD concepts are applied in real-life scenarios.

CISM Certified Information Security Manager Practice Exams Peter H. Gregory 2019-07-24 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Don't Let the Real Test Be Your First Test! Take the current version of the challenging CISM exam with complete confidence using relevant practice questions contained in this effective self-study guide. Each chapter of the book contains a battery of questions that closely match those on the live test in content, format, tone, and feel. To reinforce salient points and facilitate retention, in-depth explanations are provided for both the correct and incorrect answer choices. Written by an InfoSec expert and experienced author, *CISM® Certified Information Security Manager® Practice Exams* thoroughly covers every subject on the exam. Designed to help you pass the test with greater ease, this book is also an ideal companion to the *CISM Certified Information Security Manager All-in-One Exam Guide*. Covers all four exam domains: • Information security governance • Information risk management • Information security program development and management • Information security incident management Online content includes: • Test engine that provides a full-length practice exam and customized quizzes by chapter or exam domain

Hands-On Security in DevOps Tony Hsiang-Chih Hsu 2018-07-30 Protect your organization's security at all levels by introducing the latest strategies for securing DevOps Key Features Integrate security at each layer of the DevOps pipeline Discover security practices to protect your cloud services by detecting fraud and intrusion Explore solutions to infrastructure security using DevOps principles Book Description DevOps has provided speed and quality benefits with continuous development and deployment methods, but it does not guarantee the security of an entire organization. *Hands-On Security in DevOps* shows you how to adopt DevOps techniques to continuously improve your organization's security at every level, rather than just focusing on protecting your infrastructure. This guide combines DevOps and security to help you to protect cloud services, and teaches you how to use techniques to integrate security directly in your product. You will learn how to implement security at every layer, such as for the web application, cloud infrastructure, communication, and the delivery pipeline layers. With the help of practical examples, you'll explore the core security aspects, such as blocking attacks, fraud detection, cloud forensics, and incident response. In the concluding chapters, you will cover topics on extending DevOps security, such as risk assessment, threat modeling, and continuous security. By the end of this book, you will be well-versed in implementing security in all layers of your organization and be confident in monitoring and blocking attacks throughout your cloud services. What you will learn Understand DevSecOps culture and organization Learn security requirements, management, and metrics Secure your architecture design by looking at threat modeling, coding tools and practices Handle most common security issues and explore black and white-box testing tools and practices

Work with security monitoring toolkits and online fraud detection rules Explore GDPR and PII handling case studies to understand the DevSecOps lifecycle Who this book is for Hands-On Security in DevOps is for system administrators, security consultants, and DevOps engineers who want to secure their entire organization. Basic understanding of Cloud computing, automation frameworks, and programming is necessary.

Build Your Own Cybersecurity Testing Lab: Low-cost Solutions for Testing in Virtual and Cloud-based Environments

Ric Messier 2020-02-28 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Manage your own robust, inexpensive cybersecurity testing environment This hands-on guide shows clearly how to administer an effective cybersecurity testing lab using affordable technologies and cloud resources. Build Your Own Cybersecurity Testing Lab: Low-cost Solutions for Testing in Virtual and Cloud-based Environments fully explains multiple techniques for developing lab systems, including the use of Infrastructure-as-Code, meaning you can write programs to create your labs quickly, without manual steps that could lead to costly and frustrating mistakes. Written by a seasoned IT security professional and academic, this book offers complete coverage of cloud and virtual environments as well as physical networks and automation. Included with the book is access to videos that demystify difficult concepts. Inside, you will discover how to:

- Gather network requirements and build your cybersecurity testing lab
- Set up virtual machines and physical systems from inexpensive components
- Select and configure the necessary operating systems
- Gain remote access through SSH, RDP, and other remote access protocols
- Efficiently isolate subnets with physical switches, routers, and VLANs
- Analyze the vulnerabilities and challenges of cloud-based infrastructures
- Handle implementation of systems on Amazon Web Services, Microsoft Azure, and Google Cloud Engine
- Maximize consistency and repeatability using the latest automation tools

CISM Certified Information Security Manager Practice Exams, Second Edition Peter H. Gregory 2023-02-28 Up-to-date practice questions that cover every topic on the 2022 version of the CISM exam Take the current version of the challenging CISM exam with complete confidence using the detailed information contained in this fully updated self-study guide. Written by an expert in the field, the book features hundreds of practice exam questions that match those on the live test in content, format, tone, and feel. In-depth answer explanations are provided for both the correct and incorrect answer choices. CISM Certified Information Security Manager Practice Exams, Second Edition supplements the CISM All-in-One Exam Guide and completely covers every objective of the 2022 exam release. In total, the book contains more than 300 realistic practice questions.

- Offers 100% coverage of all four CISM exam domains
- Online content includes access to an additional 150 practice questions in the TotalTester Online customizable test engine
- Written by a computer security expert, author, and lecturer

DevOps Security Essentials Ravi Rajput 2026-01-24 □ DevOps Security Essentials is a practical, authoritative, and future-ready guide designed to help you embed security seamlessly into modern DevOps and CI/CD pipelines. It connects speed, automation, and trust to help organizations deliver software with confidence and control. □ Book Gist - This book explains how security becomes a natural part of DevOps workflows, not an afterthought. Readers learn to protect pipelines, manage risks, and scale secure delivery across cloud and enterprise environments. □ Why This Book Is Needed - DevOps has transformed delivery speed, but security often struggles to keep pace. This book addresses that gap by showing how to integrate security early, automate controls, and reduce exposure without slowing teams. □ The Value You Gain - You will understand how secure CI/CD pipelines are designed, monitored, and improved continuously. The book provides clear explanations, implementation guidance, and real-world usage patterns suitable for all experience levels. □ Practical Learning Approach - Every concept is explained in simple, layman-friendly language without losing technical depth. Readers gain clarity on tools, processes, and decisions required to build secure, resilient DevOps ecosystems. □ Security That Enables Delivery - Instead of treating security as a blocker, this book positions it as a growth enabler. You learn how automation, testing, monitoring, and governance work together to support fast yet safe releases. □ Comprehensive Coverage - From CI/CD security tools and threat modeling to secure development lifecycle and risk management. Each chapter builds progressively, helping readers connect strategy, execution, and continuous improvement. □ Who

Should Read This Book - Ideal for beginners, practitioners, leaders, and experts seeking structured DevOps security guidance. Whether you design pipelines, manage risk, or lead teams, the insights here remain relevant and actionable. □ Additional Benefits - The book also highlights how readers can access on-demand professional services and training offered by the author. These services support real-world implementation, assessments, coaching, and enterprise-level transformation when needed. □ Final Takeaway - This is not just a book about tools or theory, but about building confidence into every deployment. If you want to deliver software that is fast, secure, resilient, and trusted, this book belongs on your shelf.

CISM Certified Information Security Manager Bundle Peter H. Gregory 2019-10-16 This cost-effective study bundle contains two books and bonus online content to use in preparation for the CISM exam Take ISACA's challenging Certified Information Security Manager exam with confidence using this comprehensive self-study package. Comprised of CISM Certified Information Security Manager All-in-One Exam Guide, CISM Certified Information Security Manager Practice Exams, and bonus digital content, this bundle contains 100% coverage of every domain on the current exam. Readers will get real-world examples, professional insights, and concise explanations. CISM Certified Information Security Manager Bundle contains practice questions that match those on the live exam in content, style, tone, format, and difficulty. Every domain on the test is covered, including information security governance, information risk management, security program development and management, and information security incident management. This authoritative bundle serves both as a study tool AND a valuable on-the-job reference for security professionals. Readers will save 22% compared to buying the two books separately Online content includes 550 accurate practice exam questions and a quick review guide Written by an IT expert and experienced author

CSSLP Certification All-in-One Exam Guide, Second Edition Wm. Arthur Conklin 2019-03-15 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. This self-study guide delivers 100% coverage of all domains in the the CSSLP exam Get complete coverage of all the material included on the Certified Secure Software Lifecycle Professional exam. CSSLP Certification All-in-One Exam Guide, Second Edition covers all eight exam domains developed by the International Information Systems Security Certification Consortium (ISC)2®. You'll find learning objectives at the beginning of each chapter, exam tips, practice questions, and in-depth explanations. Designed to help you pass the exam with ease, this definitive resource also serves as an essential on-the-job reference. Covers all eight exam domains:

- Secure Software Concepts
- Secure Software Requirements
- Secure Software Design
- Secure Software Implementation/Programming
- Secure Software Testing
- Software Lifecycle Management
- Software Deployment, Operations, and Maintenance
- Supply Chain and Software Acquisition

Online content includes:

- Test engine that provides full-length practice exams or customized quizzes by chapter or exam domain

Google Cloud Certified Professional Cloud Architect All-in-One Exam Guide Iman Ghanizada 2021-02-19 Everything you need to succeed on the Google Cloud Certified Professional Cloud Architect exam in one accessible study guide Take the challenging Google Cloud Certified Professional Cloud Architect exam with confidence using the comprehensive information contained in this invaluable self-study guide. The book provides a thorough overview of cloud architecture and Google Cloud Platform (GCP) and shows you how to pass the test. Beyond exam preparation, the guide also serves as a valuable on-the-job reference. Written by a recognized expert in the field, Google Cloud Certified Professional Cloud Architect All-In-One Exam Guide is based on proven pedagogy and features special elements that teach and reinforce practical skills. The book contains accurate practice questions and in-depth explanations. You will discover how to design, develop, and manage robust, secure, scalable, and highly available solutions to drive business objectives. Offers 100% coverage of every objective for the Google Cloud Certified Professional Cloud Architect exam Online content includes 100 additional practice questions in the TotalTester customizable exam engine Written by a Google Cloud Certified Professional Cloud Architect

CISA Certified Information Systems Auditor All-in-One Exam Guide, Fourth Edition Peter H. Gregory 2019-11-22 This up-to-date self-study system delivers complete coverage of every topic on the 2019 version of the CISA exam The latest edition of this trusted resource offers complete, up-to-date coverage of all the

material included on the latest release of the Certified Information Systems Auditor exam. Written by an IT security and audit expert, CISA Certified Information Systems Auditor All-in-One Exam Guide, Fourth Edition covers all five exam domains developed by ISACA®. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the CISA exam with ease, this comprehensive guide also serves as an essential on-the-job reference for new and established IS auditors. **COVERS ALL EXAM TOPICS, INCLUDING:**

- IT governance and management
- Information systems audit process
- IT service delivery and infrastructure
- Information asset protection

Online content includes:

- 300 practice exam questions
- Test engine that provides full-length practice exams and customizable quizzes by exam topic

CompTIA Cloud+ Certification All-in-One Exam Guide (Exam CV0-003) Eric A. Vanderburg 2021-07-30 Complete coverage of every objective for the CompTIA Cloud+ exam Take the CompTIA Cloud+ exam with confidence using this highly effective self-study guide. CompTIA Cloud+™ Certification All-in-One Exam Guide (Exam CV0-003) offers complete coverage of every topic on the latest version of the exam. You'll find learning objectives at the beginning of each chapter, exam tips, in-depth explanations, and practice exam questions. You will get in-depth explanations of the latest cloud computing concepts, models, and terminology; disk storage systems; networking storage and infrastructure; virtualization components; security best practices, and more. Designed to help you pass the CV0-003 exam with ease, this definitive guide also serves as an essential on-the-job reference. Coverage includes: DevOps Performance tuning Systems management Architecture and design Services and solutions Business continuity and disaster recovery Testing, automation, and changes Environment maintenance, security, and optimization Troubleshooting Online content includes: 200 practice exam questions Interactive performance-based questions Test engine that provides full-length practice exams and customizable quizzes by chapter or exam objective

DevSecOps for Azure David Okeyode 2024-08-28 Gain holistic insights and practical expertise in embedding security within the DevOps pipeline, specifically tailored for Azure cloud environments Key Features Learn how to integrate security into Azure DevOps workflows for cloud infrastructure Find out how to integrate secure practices across all phases of the Azure DevOps workflow, from planning to monitoring Harden the entire DevOps workflow, from planning and coding to source control, CI, and cloud workload deployment Purchase of the print or Kindle book includes a free PDF eBook Book Description Businesses must prioritize security, especially when working in the constantly evolving Azure cloud. However, many organizations struggle to maintain security and compliance. Attackers are increasingly targeting software development processes, making software supply chain security crucial. This includes source control systems, build systems, CI/CD platforms, and various artifacts. With the help of this book, you'll be able to enhance security and compliance in Azure software development processes. Starting with an overview of DevOps and its relationship with Agile methodologies and cloud computing, you'll gain a solid foundation in DevSecOps principles. The book then delves into the security challenges specific to DevOps workflows and how to address them effectively. You'll learn how to implement security measures in the planning phase, including threat modeling and secure coding practices. You'll also explore pre-commit security controls, source control security, and the integration of various security tools in the build and test phases. The book covers crucial aspects of securing the release and deploy phases, focusing on artifact integrity, infrastructure as code security, and runtime protection. By the end of this book, you'll have the knowledge and skills to implement a secure code-to-cloud process for the Azure cloud. What you will learn Understand the relationship between Agile, DevOps, and the cloud Secure the use of containers in a CI/CD workflow Implement a continuous and automated threat modeling process Secure development toolchains such as GitHub Codespaces, Microsoft Dev Box, and GitHub Integrate continuous security throughout the code development workflow, pre-source and post-source control contribution Integrate SCA, SAST, and secret scanning into the build process to ensure code safety Implement security in release and deploy phases for artifact and environment compliance Who this book is for This book is for security professionals and developers transitioning to a public cloud environment or moving towards a DevSecOps paradigm. It's also designed for DevOps engineers, or anyone looking to master the implementation of DevSecOps in a practical manner. Individuals who want to understand how to integrate security checks, testing, and other

controls into Azure cloud continuous delivery pipelines will also find this book invaluable. Prior knowledge of DevOps principles and practices, as well as an understanding of security fundamentals will be beneficial.

Build Security Into Devops

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