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# **Aws For Admins For Dummies For Dummies Computers**

Achieve the Continuous Integration and Continuous Delivery of your web applications with ease About This Book Overcome the challenges of implementing DevOps for web applications, familiarize yourself with diverse third-party modules, and learn how to integrate them with bespoke code to efficiently complete tasks Understand how to deploy web applications for a variety of Cloud platforms such as Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps, and Docker Container

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Understand how to monitor applications deployed in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps using Nagios, New Relic, Microsoft Azure, and AWS default monitoring features Who This Book Is For If you are a system admin or application and web application developer with a basic knowledge of programming and want to get hands-on with tools such as Jenkins 2 and Chef, and Cloud platforms such as AWS and Microsoft Azure, Docker, New Relic, Nagios, and their modules to host, deploy, monitor, and manage their web applications, then this book is for you. What You Will Learn Grasp Continuous Integration for a JEE application—create and configure a build job for a Java

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application with Maven and with Jenkins 2.0 Create built-in delivery pipelines of Jenkins 2 and build a pipeline configuration for end-to-end automation to manage the lifecycle of Continuous Integration Get to know all about configuration management using Chef to create a runtime environment Perform instance provisioning in AWS and Microsoft Azure and manage virtual machines on different cloud platforms—install Knife plugins for Amazon EC2 and Microsoft Azure Deploy an application in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure Web Apps, and a Docker container Monitor infrastructure, application servers, web servers, and applications with the use of open source monitoring

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solutions and New Relic Orchestrate multiple build jobs to achieve application deployment automation—create parameterized build jobs for end-to-end automation In Detail The DevOps culture is growing at a massive rate, as many organizations are adopting it. However, implementing it for web applications is one of the biggest challenges experienced by many developers and admins, which this book will help you overcome using various tools, such as Chef, Docker, and Jenkins. On the basis of the functionality of these tools, the book is divided into three parts. The first part shows you how to use Jenkins 2.0 for Continuous Integration of a sample JEE application. The second part explains the Chef

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configuration management tool, and provides an overview of Docker containers, resource provisioning in cloud environments using Chef, and Configuration Management in a cloud environment. The third part explores Continuous Delivery and Continuous Deployment in AWS, Microsoft Azure, and Docker, all using Jenkins 2.0. This book combines the skills of both web application deployment and system configuration as each chapter contains one or more practical hands-on projects. You will be exposed to real-world project scenarios that are progressively presented from easy to complex solutions. We will teach you concepts such as hosting web applications, configuring a runtime

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environment, monitoring and hosting on various cloud platforms, and managing them. This book will show you how to essentially host and manage web applications along with Continuous Integration, Cloud Computing, Configuration Management, Continuous Monitoring, Continuous Delivery, and Deployment. Style and approach This is a learning guide for those who have a basic knowledge of application deployment, configuration management tools, and Cloud computing, and are eager to leverage it to implement DevOps for web applications using end-to-end automation and orchestration.

Summary Learn Amazon Web Services in a Month of Lunches guides you through the process of building a

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robust and secure web application using the core AWS services you really need to know. You'll be amazed by how much you can accomplish with AWS! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Cloud computing has transformed the way we build and deliver software. With the Amazon Web Services cloud platform, you can trade expensive glass room hardware and custom infrastructure for virtual servers and easy-to-configure storage, security, and networking services. Better, because you don't own the hardware, you only pay for the computing power you need! Just learn a few key ideas and techniques and you

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can have applications up and running in AWS in minutes. About the Book Learn Amazon Web Services in a Month of Lunches gets you started with AWS fast. In just 21 bite-size lessons, you'll learn the concepts and practical techniques you need to deploy and manage applications. You'll learn by doing real-world labs that guide you from the core AWS tool set through setting up security and storage and planning for growth. You'll even deploy a public-facing application that's highly available, scalable, and load balanced. What's Inside First steps with AWS - no experience required Deploy web apps using EC2, RDS, S3, and Route 53 Cheap and fast system backups Setting up cloud automation About the Reader If you



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know your way around Windows or Linux and have a basic idea of how web applications work, you're ready to start using AWS. About the Author David Clinton is a system administrator, teacher, and writer. He has administered, written about, and created training materials for many important technology subjects including Linux systems, cloud computing (AWS in particular), and container technologies like Docker. Many of his video training courses can be found on Pluralsight.com, and links to his other books (on Linux administration and server virtualization) can be found at <https://bootstrap-it.com>. Table of Contents Before you begin PART 1 - THE CORE AWS TOOLS The 10-minute

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EC2 web server Provisioning a more robust EC2 website  
Databases on AWS DNS: what's in a name? S3:  
cheap, fast file storage S3: cheap, fast system backups  
AWS security: working with IAM users, groups, and roles  
Managing growth Pushing back against the chaos: using  
resource tags CloudWatch: monitoring AWS resources  
for fun and profit Another way to play: the command-line  
interface PART 2 - THE AWS POWER USER:  
OPTIMIZING YOUR INFRASTRUCTURE Keeping  
ahead of user demand High availability: working with  
AWS networking tools High availability: load balancing  
High availability: auto scaling High availability: content-  
delivery networks PART 3 - FOOD FOR THOUGHT:

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WHAT ELSE CAN AWS DO FOR YOU? Building hybrid infrastructure Cloud automation: working with Elastic Beanstalk, Docker, and Lambda Everything else (nearly) Never the end

Comprehensive, interactive exam preparation and so much more The AWS Certified SysOps Administrator Official Study Guide: Associate Exam is a comprehensive exam preparation resource. This book bridges the gap between exam preparation and real-world readiness, covering exam objectives while guiding you through hands-on exercises based on situations you'll likely encounter as an AWS Certified SysOps Administrator. From deployment, management, and

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operations to migration, data flow, cost control, and beyond, this guide will help you internalize the processes and best practices associated with AWS. The Sybex interactive online study environment gives you access to invaluable preparation aids, including an assessment test that helps you focus your study on areas most in need of review, and chapter tests to help you gauge your mastery of the material. Electronic flashcards make it easy to study anytime, anywhere, and a bonus practice exam gives you a sneak preview so you know what to expect on exam day. Cloud computing offers businesses a cost-effective, instantly scalable IT infrastructure. The AWS Certified SysOps Administrator - Associate

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credential shows that you have technical expertise in deployment, management, and operations on AWS. Study exam objectives Gain practical experience with hands-on exercises Apply your skills to real-world scenarios Test your understanding with challenging review questions Earning your AWS Certification is much more than just passing an exam—you must be able to perform the duties expected of an AWS Certified SysOps Administrator in a real-world setting. This book does more than coach you through the test: it trains you in the tools, procedures, and thought processes to get the job done well. If you're serious about validating your expertise and working at a higher level, the AWS

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Certified SysOps Administrator Official Study Guide: Associate Exam is the resource you've been seeking. Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry-favorite guide to getting the most out of Microsoft's primary programming technology. From touring the new UI to exploiting advanced functionality, this book is designed to help professional developers become more productive. A unique IDE-centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier. Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI, and

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this book covers them all with clear explanation, new figures, and expert insight. Whether you're new to VS or just upgrading, this all-inclusive guide is an essential resource to keep within arm's reach. Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015, and includes new features and tools that streamline the developer's job. This book provides the straightforward answers you need so you can get up to speed quickly and get back to work. Master the core functionality of Visual Studio 2017 Dig into the tools that make writing code easier Tailor the environment to your workflow, not the other way around Work your way through configuration, debugging, building, deployment,

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customizing, and more Microsoft is changing their release cadence—it's only been about two years since the last release—so developers need to quickly get a handle on new tools and features if they hope to remain productive. The 2017 release is designed specifically to help you get more done, in less time, with greater accuracy and attention to detail. If you're ready to get acquainted, Professional Visual Studio 2017 is your ideal guide.

AWS Certified SysOps Administrator Study Guide  
AWS Certified Solutions Architect Associate All-in-One  
Exam Guide, Second Edition (Exam SAA-C02)  
A Practical Guide to AWS IAM



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Create and maintain a secure cloud ecosystem

Latest Amazon AWS DevOps Engineer - Professional DOP-C01 Exam Questions and Answers

AWS for Developers For Dummies

Sharpen your knowledge of C# C# know-how is a must if you want to be a professional Microsoft developer. It's also good to know a little C# if you're building tools for the web, mobile apps, or other development tasks. C# 7.0 All-in-One For Dummies offers a deep dive into C# for coders still learning the nuances of the valuable programming language. Pop it open to get an intro into coding with C#, how to design secure apps and databases, and even pointers on building web and mobile apps with C#. C# remains one of the most in-demand

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programming language skills. The language regularly ranks in the top five among "most in-demand" languages, typically along with Java/JavaScript, C++, and Python. A December 2016 ZDNet article noted "If your employer is a Microsoft developer, you better know C#." Lucky for you, this approachable, all-in-one guide is here to help you do just that—without ever breaking a sweat! Includes coverage of the latest changes to C# Shows you exactly what the language can (and can't) do Presents familiar tasks that you can accomplish with C# Provides insight into developing applications that provide protection against hackers If you have a basic understanding of coding and need to learn C#—or need a reference on the language in order to launch or further your career—look no further.

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Everything you need to get running with IaaS for Amazon Web Services. Modern businesses rely on Infrastructure-as-a-Service (IaaS)—a setup in which someone else foots the bill to create application environments—and developers are expected to know how to write both platform-specific and IaaS-supported applications. If you're a developer who writes desktop and web applications but have little-to-no experience with cloud development, this book is an essential tool in getting started in the IaaS environment with Amazon Web Services. In *Amazon Web Services For Developers For Dummies*, you'll quickly and easily get up to speed on which language or platform will work best to meet a specific need, how to work with management consoles, ways you'll interact with services at the command line, how to create applications

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with the AWS API, and so much more. Assess development options to produce the kind of result that's actually needed Use the simplest approach to accomplish any given task Automate tasks using something as simple as the batch processing features offered by most platforms Create example applications using JavaScript, Python, and R Discover how to use the XML files that appear in the management console to fine tune your configuration Making sense of Amazon Web Services doesn't have to be as difficult as it seems—and this book shows you how.

This up-to-date study guide offers 100% coverage of every objective for the current version of the AWS Certified Solutions Architect Professional exam Get complete coverage of all objectives included on the SAA-C02 exam from this

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comprehensive resource. Written by an expert AWS Solutions Architect and well-respected author, this authoritative guide fully addresses the knowledge and skills required for passing the AWS Certified Solutions Architect - Associate exam.

You ' ll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. You ' ll also build your practical knowledge with the many hands-on labs found throughout this guide.

Designed to help you pass the exam with ease, this definitive volume also serves as an essential on-the-job reference.

Covers all exam domains, including: Design Resilient Architectures Design High-Performing Architectures Design Secure Applications and Architectures Design Cost-Optimized Architectures Online content includes: 130 practice

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exam questions Test engine that provides practice exams or quizzes that can be customized by chapter or exam objective Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Cloud Practitioner Study Guide to give you the same experience working in these labs as you prepare for the Certified Cloud Practitioner Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Cloud Practitioner. The AWS Certified Cloud Practitioner Study Guide: Exam CLF-C01 provides a solid introduction to this industry-leading technology, relied upon by thousands of businesses across the globe, as well as the

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resources you need to prove your knowledge in the AWS Certification Exam. This guide offers complete and thorough treatment of all topics included in the exam, beginning with a discussion of what the AWS cloud is and its basic global infrastructure and architectural principles. Other chapters dive into the technical, exploring core characteristics of deploying and operating in the AWS Cloud Platform, as well as basic security and compliance aspects and the shared security model. In addition, the text identifies sources of documentation or technical assistance, such as white papers or support tickets. To complete their coverage, the authors discuss the AWS Cloud value proposition and define billing, account management, and pricing models. This includes describing the key services AWS can provide and their

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common use cases (e.g., compute, analytics, etc.).

Distinguish yourself as an expert by obtaining a highly desirable certification in a widely used platform Hone your skills and gain new insights on AWS whether you work in a technical, managerial, sales, purchasing, or financial field Fully prepare for this new exam using expert content and real-world knowledge, key exam essentials, chapter review questions, and other textual resources Benefit from access to the Sybex online interactive learning environment and test bank, including chapter tests, practice exams, key term glossary, and electronic flashcards XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months unlimited access to XtremeLabs AWS Certified Cloud Practitioner Labs with 8



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unique lab modules based on the book. The AWS Certified Cloud Practitioner Study Guide is essential reading for any professional in IT or other fields that work directly with AWS, soon-to-be graduates studying in those areas, or anyone hoping to prove themselves as an AWS Certified Cloud Practitioner.

Practical solutions for managing security policies, monitoring, auditing, and compliance with AWS

Full Stack Serverless

AWS Certified Cloud Practitioner Study Guide with Online Labs

Learn Amazon Web Services in a Month of Lunches

AWS Certified SysOps Administrator Study Guide with Online Labs

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AWS Certified DevOps Engineer - Professional Certification and Beyond

***How to Hack Like a Ghost takes you deep inside the mind of a hacker as you carry out a fictionalized attack against a tech company, teaching cutting-edge hacking techniques along the way. Go deep into the mind of a master hacker as he breaks into a hostile, cloud-based security environment. Sparc Flow invites you to shadow him every step of the way, from recon to infiltration, as you hack a shady, data-driven political consulting firm. While the target is fictional, the corporation's vulnerabilities are based on real-life weaknesses in today's advanced***

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***cybersecurity defense systems. You'll experience all the thrills, frustrations, dead-ends, and eureka moments of his mission first-hand, while picking up practical, cutting-edge techniques for penetrating cloud technologies. There are no do-overs for hackers, so your training starts with basic OpSec procedures, using an ephemeral OS, Tor, bouncing servers, and detailed code to build an anonymous, replaceable hacking infrastructure guaranteed to avoid detection. From there, you'll examine some effective recon techniques, develop tools from scratch, and deconstruct low-level features in common systems to gain access to the target. Spark***

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***Flow's clever insights, witty reasoning, and stealth maneuvers teach you how to think on your toes and adapt his skills to your own hacking tasks. You'll learn:***

- How to set up and use an array of disposable machines that can renew in a matter of seconds to change your internet footprint***
- How to do effective recon, like harvesting hidden domains and taking advantage of DevOps automation systems to trawl for credentials***
- How to look inside and gain access to AWS's storage systems***
- How cloud security systems like Kubernetes work, and how to hack them***
- Dynamic techniques for escalating privileges***

***Packed with interesting tricks, ingenious tips, and***

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***links to external resources, this fast-paced, hands-on guide to penetrating modern cloud systems will help hackers of all stripes succeed on their next adventure.***

***ABOUT THE BOOK A look at core Amazon Web Services (AWS) services with an emphasis on implementation and skill development. You will start with a simple web application on a single Elastic Cloud Compute (EC2) instance and improve the stack step by step by adding high availability, fault-tolerance, scalability, security and ease of deployment. The book has 8 chapters and a capstone project, code, and commands required for***

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***the project are included. You will learn about these AWS services - Elastic Cloud Compute (EC2), Elastic Block Store (EBS), Relational Database Service (RDS), Simple Storage Service (S3), DynamoDB, Identity and Access Management (IAM), ElastiCache, CloudFront, Elastic Beanstalk and Virtual Private Cloud (VPC). You will use these important aspects of AWS: - Infrastructure: AWS Regions and Availability Zones. - EC2: Amazon Machine Images, EBS Snapshots, Application Load Balancers, Sticky Sessions, Auto-Scaling Groups. - AWS Databases: RDS Read Replicas, RDS Multi-AZ Deployment, Memcached clusters. - Network: Public and Private***

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***Subnets, VPC Service Endpoints, Security Groups, NAT Gateways. - Security: IAM Roles, IAM policies, S3 bucket policies, S3 Access Control Lists, CloudFront signed URLs. - App development: AWS SDK. You will implement these AWS best practices: - Configure separate root and data EBS volumes. - Create snapshots of EBS data volumes. - Create Amazon Machine Images of your app servers. - Use multiple instances and multiple zones. - Centralize sessions, content and the database. - Use auto-scaling groups for your app servers. - Off-load database requests to read replicas or to in-memory databases. - Use a Content Distribution Network to***

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***deliver content to users around the world. - Use signed URLs when delivering private content. - Configure security using the principle of least privileges. - Use an automation platform for frequent deployments. You will understand AWS best practices for typical web app functions: - Session management. - Content delivery. - Content security. - Databases. AUDIENCE Developers, system administrators or a solutions architects who need to use AWS in their projects, or need to develop, and perhaps showcase, strong skills in this technology. Those preparing for AWS certification exams, and like to learn by doing. REQUIRED SKILLS You will***



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***use, modify, and configure a Linux (Ubuntu), Apache, MySQL and PHP app throughout this project. This book assumes you have some familiarity with Linux, SSH, vi (or similar) editors and with Git. PHP skills are NOT required. FROM THE AUTHOR I am AWS certified (Solutions Architect - Associate level) and have over 20 years of experience in IT. I adopted AWS early, back in 2008, when setting up an AWS based SaaS business. As part of this project, I coached, for several years, a team of system admins and developers on this technology. For the last couple of years, I have been teaching a webinar based AWS solutions***

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***architecture course. This book has evolved from this long experience using and teaching AWS. I hope you will find it useful.***

***This effective study guide offers 100% coverage of every objective for the AWS Certified Cloud Practitioner exam Take the challenging AWS Certified Cloud Practitioner exam with confidence using the detailed information contained in this effective self-study guide. Written by a recognized AWS expert, the book offers 100 percent coverage of all four exam domains: Cloud concepts, security and compliance, technology, and billing and pricing. AWS Certified Cloud Practitioner All-in-One Exam***

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***Guide (Exam CLF-C01) is based on proven pedagogy and features special elements that teach and reinforce practical skills. You will get accurate practice questions along with detailed explanations. Beyond exam preparation, the guide also serves as a valuable on-the-job reference. Comprehensive coverage includes: How to obtain AWS Certified Cloud Practitioner certification The value of the AWS Cloud The AWS shared responsibility model AWS Cloud security best practices AWS Cloud costs, economics, and billing practices Core services, including compute, network, databases, and storage AWS services for common use cases AWS Cloud***

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***AWS Certified SysOps Administrator Official Study  
Guide***

***Docker Management Design Patterns***

***How to Hack Like a Ghost***

***AWS: Automation and Optimization***

Master every aspect of orchestrating/managing Docker including creating a Swarm, creating services, using mounts, scheduling, scaling, resource management, rolling updates, load balancing, high availability, logging and monitoring, using multiple zones, and networking. This book

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also discusses the managed services for Docker Swarm: Docker for AWS and Docker Cloud Swarm mode. Docker Management Design Patterns explains how to use Docker Swarm mode with Docker Engine to create a distributed Docker container cluster and how to scale a cluster of containers, schedule containers on specific nodes, and mount a volume. This book is based on the latest version of Docker (17.0x). You will learn to provision a Swarm on production-ready AWS EC2 nodes, and to link Docker Cloud to Docker

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for AWS to provision a new Swarm or connect to an existing Swarm. Finally, you will learn to deploy a Docker Stack on Docker Swarm with Docker Compose. What You'll Learn Apply Docker management design patterns Use Docker Swarm mode and other new features Create and scale a Docker service Use mounts including volumes Configure scheduling, load balancing, high availability, logging and monitoring, rolling updates, resource management, and networking Use Docker for AWS managed services including a multi-zone



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Swarm Build Docker Cloud managed services in Swarm mode Who This Book Is For Docker admins, Docker application developers, and container as a service (CAAS) developers. Some prerequisite knowledge of Linux and Docker is required. Apress Pro Docker is recommended as a companion to this book. Enhance system productivity, improve performance, and reduce costs by learning how to automate and optimize processes using Amazon Web Services (AWS). This course covers different strategies for

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optimizing and automating processes and for auto-scaling. SysOps admins can learn how to build highly available solutions while efficiently utilizing resources. Shyam Raj provides guidance around how to control costs and successfully manage cloud operations. This course covers content that is included in the AWS Certified SysOps Administrator exam and can be used in preparation for that exam. Résumé : Written in a language you can understand, this book provides simple procedures you can follow to set up and

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configure the right environment, and helps you assess your move to the cloud, explains any quirks in the software, and gets you up and running in no time. --

With a new generation of services and frameworks, frontend and mobile developers can use their existing skill set to build full stack applications by leveraging the cloud. Developers can build robust applications with production-ready features such as authentication, APIs, data layers, machine learning, chatbots, and AR scenes more easily

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than ever by taking advantage of these new serverless and cloud technologies. This practical guide explains how. Nader Dabit, developer advocate at Amazon Web Services, shows developers how to build full stack applications using React, AWS, GraphQL, and the Amplify Framework. You'll learn how to create and incorporate services into your client applications while exploring general best practices, deployment strategies, continuous integration and delivery, and rich media management along the way. Learn how

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to build applications that solve real problems Understand what is (and is not) possible when using these technologies Examine how authentication works—and learn the difference between authentication and authorization Discover how serverless functions work and why they're important Use GraphQL in your application—and learn why it's important Learn how to build full stack applications on AWS

Transforming Your Business with AWS

Implementing Identity Management on AWS

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Associate Exam

DevOps for the AWS Cloud

Associate SOA-C01

AWS Certified Cloud Practitioner All-in-One Exam Guide (Exam CLF-C01)

**Exam Name : Amazon AWS DevOps Engineer - Professional Exam Code : DOP-C01 Edition :**

**Latest Verison (100% valid and stable) Number of Questions : 260 Questions with Answer**

**This guide is a map for managing access in an AWS account. It contains everything you need to know to configure IAM identities and policies to**

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safeguard the account. IAM is a notoriously complicated service. I remember when I started out with AWS I felt it was an obstacle, making everything a lot harder than necessary. Everything was hidden behind some technical jargon and it wasn't intuitive at all where to configure things. Then it's JSON policy structure required a lot of searching for solutions. IAM was in my way whatever I wanted to do. It was much later when I become interested in security and that was when I realized how essential IAM is to secure an AWS account. There are a lot of other services for security, such as Config, Security Hub, CloudTrail,

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and GuardDuty, but they all play a secondary role. The security of an account lies in the configuration of IAM. After a bit of learning, I started to see the underlying logic behind all those obscure terminology that felt so distant at first. The identities, the types and structure of the policies all fit into a bigger picture that defines the security posture of an account. This book is a comprehensive and easy-to-follow guide for everything you'll need to configure who can access an account and what they can do. It provides a ton of examples and practical tips with a lot of illustrations. It was written to give a complete



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overview of the different things you'll encounter in configuring access. You'll learn:

- \* How IAM helps with account security
- \* What are the different IAM identities
- \* How to write policies
- \* How the policy evaluation logic works

Pro PowerShell for Amazon Web Services is written specifically for Windows professionals who already know PowerShell and want to learn to host Windows workloads in the Amazon Elastic Cloud Compute (EC2) cloud service. The cloud offers information technology workers significant cost savings and agility unimaginable even just a few years ago. Tasks that traditionally took weeks of

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work, costing thousands of dollars, can be completed in minutes for a fraction of a penny. This book is a resource for using Microsoft's powerful scripting language, PowerShell, to create, host, manage, and administer workloads using a service widely recognized as the industry leader in cloud computing. Inside, find scripts to create and manage virtual machines, provision storage, configure networks with agility, and more--all using your preferred Windows scripting language. Use your PowerShell knowledge to harness the power of Amazon EC2 today! What you 'll learn Create, manage, and terminate Windows

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servers in the cloud Manage storage options including backup and recovery Configure a virtual network including subnets and route tables Secure your servers using security groups and access control lists Use Auto Scaling to respond to changing conditions Deploy SQL Server using Relational Database Service Use Simple Storage Service (S3) to reliably store and archive data Control access to resources using Identity and Access Management (IAM) Who this book is for Pro PowerShell for Amazon Web Services is for the intermediate to advanced Windows professional who is ready to make the leap to the Amazon cloud.

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Table of Contents Chapter 1 AWS Architecture Overview Chapter 2 Getting Started Chapter 3 Basic Instance Management Chapter 4 Elastic Block Storage Chapter 5 Virtual Private Cloud Chapter 6 Advanced Instance Management Chapter 7 Amazon Machine Images Chapter 8 Monitoring and High Availability Chapter 9 Relational Database Service Chapter 10 Simple Storage Service Chapter 11 Identity and Access Management Chapter 12 Glossary of Terms Chapter 13 Metadata URL Structure Chapter 14 List of Filters by EC2 Command Chapter 15 List of API Methods by Command Chapter 16 CloudWatch Metrics and

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### Dimensions Chapter 17 SQL Server RDS Parameters

This book answers that question and a multitude more in language you can understand and shows you how to put this Cloud computing service to work for you right away. AWS is immense and, naturally, intimidating, but with the help of this book, you'll peel back its many layers in no time. With Amazon Web Services (AWS), you can do everything from backing up your personal hard drive to creating a full-fledged IT department in the Cloud. And while major corporations like Adobe and Netflix have turned to AWS for their Cloud

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computing needs, it isn't just for private companies. Amazon Web Services is the singular resource that shows real people with real businesses how to use on-demand IT resources to help their companies grow.

Security, Privacy, and Digital Forensics in the Cloud

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*Book Description* The AWS Certified DevOps Engineer certification is one of the highest AWS credentials, vastly recognized in cloud computing or software development industries. This book is an extensive guide to helping you strengthen your DevOps skills as you work with your AWS workloads on a day-to-day basis. You'll begin by learning how to create and deploy a workload using the AWS code suite of tools, and then move on to adding monitoring and fault tolerance to your workload. You'll explore enterprise scenarios that'll help you to understand various AWS



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*gained the knowledge needed to pass the AWS Certified DevOps Engineer exam, and be able to implement different techniques for delivering each service in real-world scenarios. What you will learnAutomate your pipelines, build phases, and deployments with AWS-native toolingDiscover how to implement logging and monitoring using AWS-native toolingGain a solid understanding of the services included in the AWS DevOps Professional examReinforce security practices on the AWS platform from an exam point of viewFind out how to automatically enforce standards and policies in AWS*

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*security posture of your organization by leveraging the homefield advantage Key Features Build, manage, and measure an offensive red team program Leverage the homefield advantage to stay ahead of your adversaries Understand core adversarial tactics and techniques, and protect pentesters and pentesting assets Book Description It's now more important than ever for organizations to be ready to detect and respond to security events and breaches. Preventive measures alone are not enough for dealing with adversaries. A well-rounded prevention, detection, and response program*

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*is required. This book will guide you through the stages of building a red team program, including strategies and homefield advantage opportunities to boost security. The book starts by guiding you through establishing, managing, and measuring a red team program, including effective ways for sharing results and findings to raise awareness. Gradually, you'll learn about progressive operations such as cryptocurrency mining, focused privacy testing, targeting telemetry, and even blue team tooling. Later, you'll discover knowledge graphs and how to build them, then become well-versed with basic to*



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*advanced techniques related to hunting for credentials, and learn to automate Microsoft Office and browsers to your advantage. Finally, you'll get to grips with protecting assets using decoys, auditing, and alerting with examples for major operating systems. By the end of this book, you'll have learned how to build, manage, and measure a red team program effectively and be well-versed with the fundamental operational techniques required to enhance your existing skills. What you will learn Understand the risks associated with security breaches Implement strategies for building an effective*

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*this book will also be useful for beginners in the cybersecurity domain. To get the most out of this book, some penetration testing experience, and software engineering and debugging skills are necessary.*

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*guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Dada*

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*practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model. This book tells you how you can enable continuous security, continuous auditing, and continuous compliance by automating your security in AWS with the tools, services, and features it provides. Moving on, you will learn about access control in AWS for all resources. You will also learn about the security of your network, servers, data and applications in the AWS cloud using native AWS security services. By the end of this book, you will understand the complete AWS Security landscape, covering all aspects of end-to-end software and hardware security along with logging, auditing, and compliance of your entire IT environment in*

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*the AWS cloud. Lastly, the book will wrap up with AWS best practices for security. Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it. It will focus on using native AWS security features and managed AWS services to help you achieve continuous security and continuous compliance.*

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other Offers specific paths to follow in order to obtain a particular installation result Gets you started without making a huge investment Reduces the risk of failure by ensuring you understand available options as part of the configuration and usage process Stop wasting time and resources on hardware and software that's quickly outdated. Get started with AWS today!

In a unique and systematic way, this book discusses the security and privacy aspects of the cloud, and the relevant cloud forensics. Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work. However, with the continuous growth of cloud computing and related

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services, security and privacy has become a critical issue. Written by some of the top experts in the field, this book specifically discusses security and privacy of the cloud, as well as the digital forensics of cloud data, applications, and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security, which will help them through the digital investigation guidance and recommendations found in the second half of the book. Part One of Security, Privacy and Digital Forensics in the Cloud covers cloud infrastructure security; confidentiality of data; access control in cloud IaaS; cloud security and privacy management; hacking and countermeasures;

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risk management and disaster recovery; auditing and compliance; and security as a service (SaaS). Part Two addresses cloud forensics – model, challenges, and approaches; cyberterrorism in the cloud; digital forensic process and model in the cloud; data acquisition; digital evidence management, presentation, and court preparation; analysis of digital evidence; and forensics as a service (FaaS). Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U.S., the European and other countries, and professionals active in the field of information and network security, digital and computer forensics, and cloud and big data Of interest to those

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focused upon security and implementation, and incident management Logical, well-structured, and organized to facilitate comprehension Security, Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master's-level students in information systems, information technology, computer and network forensics, as well as computer science. It can also serve as a good reference book for security professionals, digital forensics practitioners and cloud service providers.

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practices Key Features Explore useful recipes for implementing robust cloud security solutions on AWS Monitor your AWS infrastructure and workloads using CloudWatch, CloudTrail, config, GuardDuty, and Macie Prepare for the AWS Certified Security-Specialty exam by exploring various security models and compliance offerings

**Book Description** As a security consultant, securing your infrastructure by implementing policies and following best practices is critical. This cookbook discusses practical solutions to the most common problems related to safeguarding infrastructure, covering services and features within AWS that can help you implement security models such as the CIA triad

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(confidentiality, integrity, and availability), and the AAA triad (authentication, authorization, and availability), along with non-repudiation. The book begins with IAM and S3 policies and later gets you up to speed with data security, application security, monitoring, and compliance. This includes everything from using firewalls and load balancers to secure endpoints, to leveraging Cognito for managing users and authentication. Over the course of this book, you'll learn to use AWS security services such as Config for monitoring, as well as maintain compliance with GuardDuty, Macie, and Inspector. Finally, the book covers cloud security best practices and demonstrates how you can integrate

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additional security services such as Glacier Vault Lock and Security Hub to further strengthen your infrastructure. By the end of this book, you'll be well versed in the techniques required for securing AWS deployments, along with having the knowledge to prepare for the AWS Certified Security – Specialty certification. What you will learn

- Create and manage users, groups, roles, and policies across accounts
- Use AWS Managed Services for logging, monitoring, and auditing
- Check compliance with AWS Managed Services that use machine learning
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- Manage

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user pools and identity pools with federated loginWho this book is for If you are an IT security professional, cloud security architect, or a cloud application developer working on security-related roles and are interested in using AWS infrastructure for secure application deployments, then this Amazon Web Services book is for you. You will also find this book useful if you're looking to achieve AWS certification. Prior knowledge of AWS and cloud computing is required to get the most out of this book.

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*identity systems. What you will learnUnderstand AWS IAM concepts, terminology, and servicesExplore AWS IAM, Amazon Cognito, AWS SSO, and AWS Directory Service to solve customer and workforce identity problemsApply the concepts you learn about to solve business, process, and compliance challenges when expanding into AWSNavigate the AWS CLI to unlock the programmatic administration of AWSExplore how AWS IAM, its policy*

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*objects, and notational language can be applied to solve security and access management use cases*  
*Relate concepts easily to your own environment through IAM patterns and best practices*  
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