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Provides a solid foundation for those considering a career in IT—covers the objectives of the new Linux Essentials Exam 010-160 v1.6 Linux is a secure, reliable, open source alternative to costly operating systems such as Microsoft Windows. As large organizations worldwide continue to add Linux servers, the need for IT professionals skilled in Linux continues to grow. The LPI Linux Essentials Study Guide is a valuable resource for anyone preparing to take the new Linux Essentials Exam—the entry-level certification from The Linux Professional Institute (LPI) which validates knowledge of Linux concepts and applications. Written by recognized experts on Linux and open source technologies, this accessible, user-friendly guide covers desktop skills, the command line, directories and files, networks, scripting, security, users and permissions, and much more. Clear, concise chapters provide numerous hands-on tutorials, real-world examples, color illustrations, and practical end-of-chapter exercises and review questions. An ideal introduction for those new to Linux or considering a career in IT, this guide helps readers: Learn the operation and components of Linux desktops and servers Understand open source software, licensing, and applications Configure networks, security, cloud services, storage, and devices Create users and groups and set permissions and ownership Use the command line and build automation scripts LPI Linux

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Essentials Study Guide: Exam 010 v1.6 is perfect for anyone beginning a career in IT, newcomers to Linux, students in computer courses, and system administrators working with other operating systems wanting to learn more about Linux and other open source solutions.

Run Docker on AWS and build real-world, secure, and scalable container platforms on cloud Key Features

Configure Docker for the ECS environment Integrate Docker with different AWS tools Implement container networking and deployment at scale Book Description

Over the last few years, Docker has been the gold standard for building and distributing container applications. Amazon Web Services (AWS) is a leader in public cloud computing, and was the first to offer a managed container platform in the form of the Elastic Container Service (ECS). Docker on Amazon Web Services starts with the basics of containers, Docker, and AWS, before teaching you how to install Docker on your local machine and establish access to your AWS account. You'll then dig deeper into the ECS, a native container management platform provided by AWS that simplifies management and operation of your Docker clusters and applications for no additional cost. Once you have got to grips with the basics, you'll solve key operational challenges, including secrets management and auto-scaling your infrastructure and applications. You'll explore alternative strategies for deploying and running your Docker applications on AWS, including Fargate and ECS Service Discovery, Elastic Beanstalk, Docker Swarm and Elastic Kubernetes Service (EKS). In addition to this, there will be a strong focus on adopting

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an Infrastructure as Code (IaC) approach using AWS CloudFormation. By the end of this book, you'll not only understand how to run Docker on AWS, but also be able to build real-world, secure, and scalable container platforms in the cloud. What you will learn Build, deploy, and operate Docker applications using AWS Solve key operational challenges, such as secrets management Exploit the powerful capabilities and tight integration of other AWS services Design and operate Docker applications running on ECS Deploy Docker applications quickly, consistently, and reliably using IaC Manage and operate Docker clusters and applications for no additional cost Who this book is for Docker on Amazon Web Services is for you if you want to build, deploy, and operate applications using the power of containers, Docker, and Amazon Web Services. Basic understanding of containers and Amazon Web Services or any other cloud provider will be helpful, although no previous experience of working with these is required. New for 2019! Start with the basics, then learn everything you need to know to pass the AWS Solutions Architect exam About This Video Learn the basics of AWS and set up a free AWS account to run an instance Grasp AWS essentials and prepare for the AWS Solutions Architect - Associate certification In Detail Are you looking to learn more about AWS and what it can do for you or your company? Have you heard about it, but don't know how to take your business and network solutions to the AWS cloud? Perhaps you're a seasoned network techie looking to become an AWS Certified Solutions Architect Associate. If you can relate to any of

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those, the AWS Essentials and Solutions Architect Associate course is for you. This course includes both AWS Technical Essentials and AWS Certified Solutions Architect - Associate courses. If you're new to AWS and looking for a crash course to get to grips with the foundations, we recommend that you start right from the beginning with the Technical Essentials course, which isn't a certification exam prep course and doesn't cover exam domains, however, the following is a list of what it covers: Terminology and concepts related to the AWS platform How to navigate the AWS Management Console Key concepts for AWS security measures and AWS Identity and Access Management (IAM) Foundational services-Amazon Elastic Compute Cloud (Amazon EC2), Amazon Virtual Private Cloud (Amazon VPC), Amazon Simple Storage Service (Amazon S3), and Amazon Elastic Block Store (Amazon EBS) Database services-Amazon DynamoDB and Amazon Relational Database Service (Amazon RDS) Management services-AWS Auto Scaling, Amazon CloudWatch, Elastic Load Balancing (ELB), and AWS Trusted Advisor Once you're well-versed with the basics, you'll move on to the AWS Solutions Architect - Associate video course, which will take you through the exam domains which are as follows: Domain 1: Design Resilient Architectures (34%) Domain 2: Define Performant Architectures (24%) Domain 3: Specify Secure Applications and Architectures (26%) Domain 4: Design Cost-Optimized Architectures (10%) Domain 5: Define Operationally Excellent Architectures (6%) Downloading the example code for this course: You can

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download the example code files for this course on GitHub at the following link: <https://github.com/PacktPublishing/AWS-Essentials-and-Solutions-Architect-Associate-The-Total-Course> . If you require support please email: customercare@packt.com.

Learn to use AWS IoT services to build your connected applications with the help of this comprehensive guide. Key Features Gets you started with AWS IoT and its functionalities Learn different modules of AWS IoT with practical use cases. Learn to secure your IoT communication Book Description The Internet of Things market increased a lot in the past few years and IoT development and its adoption have showed an upward trend. Analysis and predictions say that Enterprise IoT platforms are the future of IoT. AWS IoT is currently leading the market with its wide range of device support SDKs and versatile management console. This book initially introduces you to the IoT platforms, and how it makes our IoT development easy. It then covers the complete AWS IoT Suite and how it can be used to develop secure communication between internet-connected things such as sensors, actuators, embedded devices, smart applications, and so on. The book also covers the various modules of AWS: AWS Greengrass, AWS device SDKs, AWS IoT Platform, AWS Button, AWS Management consoles, AWS-related CLI, and API references, all with practical use cases. Near the end, the book supplies security-related best practices to make bi-directional communication more secure. When you've finished this book, you'll be up-and-running with the AWS IoT Suite, and building IoT projects. What you will learn

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Implement AWS IoT on IoT projects Learn the technical capabilities of AWS IoT and IoT devices Create IoT-based AWS IoT projects Choose IoT devices and AWS IoT platforms to use based on the kind of project you need to build Deploy AWS Greengrass and AWS Lambda Develop program for AWS IoT Button Visualize IoT AWS data Build predictive analytics using AWS IoT and AWS Machine Learning Who this book is for This book is for anyone who wants to get started with the AWS IoT Suite and implement it with practical use cases. This book acts as an extensive guide, on completion of which you will be in a position to start building IoT projects using AWS IoT platform and using cloud services for your projects.

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 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

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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 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 Certified SysOps Administrator Official Study Guide: Associate Exam is the resource you've been seeking. The AWS Certified Solutions Architect Associate certification demonstrates your expertise in architecting and deploying secure and robust applications on the leading cloud platform in the world, Amazon Web Services. Designed for all AWS Certified Solutions Architect Associate candidates, the AWS Certified Solutions Architect -- Associate (SAA-C02) Cert Guide covers every exam objective concisely and logically, with proven study features that enable students to succeed on the exam the first time. Expert author and trainer Mark Wilkins shares preparation hints and test-taking

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tips, helping to identify areas of weakness and improve both conceptual knowledge and hands-on skills. This complete study package provides a test-preparation routine proven to help students pass the exams, including quizzes, cheat sheets, a study plan, and hundreds of exam-realistic questions.

Secure your Amazon Web Services (AWS) infrastructure with permission policies, key management, and network security, along with following cloud security best 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 (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

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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 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 Provide security and availability for EC2 instances and applications Secure data using symmetric and asymmetric encryption Manage user pools and identity pools with federated login Who 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.

Have you been looking to get AWS certified and to grow in your career or business by having the ability to build scalable applications capable of affording your company important features like storage services, analytics services,

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development and management tools and many more? If you've answered YES, keep reading... You Are About To Discover How You Can Get AWS Certified The Easy Way By Learning The Ins And Outs Of AWS! Truth is, it's difficult to achieve the highest position in any organization in this world- where so many people are super talented, experienced and competent. But it is very possible and very easy when you have extraordinary technical skills like AWS solutions architect- and have a certificate to prove it. But like other serious certifications, AWS certification is not the easiest to attain, and like most people, you might be struggling to get answers to questions like: What exactly do I need to study to excel in my exams? How are AWS questions set, and what is expected of me? What are the different facets of AWS, and what do I need to know about them to deem myself technically fit in this framework? Seems/sounds too technical! How do I even get started? If that's you, then you came to the right place. Indeed, mastering AWS is not usually a walk in the park, and neither does passing its exams. But you know what? That's exactly why this book is here! It will teach you everything you need to learn in AWS to not only pass the exams, but improve your skills fast and within a shorter period of time than average. More precisely, you'll learn: What cloud computing, virtualization, architecture and optimization mean, and why they're significant elements of innovation The various service categories of AWS service The ins and outs of the AWS platform architecture How to work with the AWS The reliability and compliance of AWS Everything you need to know about the compute cloud and Amazon elastic block store The features and importance of Amazon Simple Storage service and Amazon Glacier Storage Details about the Simple Storage Service Exams essentials, review questions and exercises after every topic ...And much more! You know what the best part about this book is? The fact that

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it is simple to read and follow, which makes anyone, including complete beginners perfect for it. It's also very practical and actively engages you, the reader, right from the beginning to ensure comprehension, enjoyment and satisfaction. Is that what you're looking for? If it is, then all you need to do is: Scroll up and click Buy Now With 1-Click or Buy Now to get started!

Preparing for the AWS Certified Developer Associate exam - and looking for a way to fast-track your exam success? Then these Cheat Sheets are for you! With these in-depth AWS Training Notes for the Developer Associate, you'll learn everything you need to know to ace your exam! Fast-track your exam success with over 340 pages of exam-specific facts, tables and diagrams. AWS Solution Architect and founder of Digital Cloud Training, Neal Davis, has consolidated ALL of the key information into this essential cheat sheet. Based on the latest DVA-C01 certification exam, these Training Notes will shortcut your study time and maximize your chance of passing the AWS Developer Associate certification exam first time. EVERYTHING YOU NEED TO KNOW Deep dive into the DVA-C01 exam objectives with 340 pages of detailed facts, tables and diagrams ALWAYS UP TO DATE These key exam essentials reflect the latest DVA-C01 exam blueprint and are regularly updated SAVE VALUABLE TIME Get straight to the facts you need to know to successfully pass your exam EASY NAVIGATION The information on each AWS service is organized into the same categories as they are in the AWS Management Console BONUS QUIZ QUESTIONS Review your knowledge with 110 questions at the end of each major chapter GAIN THE EDGE ON EXAM DAY Learn from AWS subject-matter experts with this essential exam cram CLEAR LANGUAGE Presented in a raw, point-to-point list of facts backed by tables and diagrams to help with understanding

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Neal Davis is the founder of Digital Cloud Training, AWS Cloud Solution Architect and a successful IT instructor. With more than 20 years of experience in the tech industry, Neal is a true expert in virtualization and cloud computing. His passion is to help others achieve career success by offering in-depth AWS certification training resources. Neal's popular courses have been used by over 70,000 students around the world and are highly regarded for their premium quality. 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 SysOps Administrator Study Guide to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator 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 SysOps Administrator. This comprehensive book 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 Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of

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robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms. And with this edition you also get 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 SysOps Administrator Labs with 6 unique lab modules based on the book.

The Practical, Foundational Technical Introduction to the World's #1 Cloud Platform Includes access to several hours of online training video: Mark Wilkins' expert training video library guides you through setting up core services and prepares you to deploy your own apps and resources. Learning Amazon Web Services (AWS) is the perfect foundational resource for all administrators, developers, project managers, and other IT professionals who want to plan and deploy AWS services and/or earn AWS certification. Top cloud trainer and evangelist Mark Wilkins teaches best practices that align with Amazon's Well-Architected Framework, introduces key concepts in the context of a running case study, carefully explains how core AWS services operate and integrate, and offers extensively tested tips for maximizing flexibility, security, and value. Companion online videos guide you step-by-step through setting AWS compute, storage, networking, scale, security, automation, and more. Balance cost, compliance, and latency in your service designs Choose the right networking options for your virtual private cloud (VPC) Build, host, launch, manage, and budget for EC2 compute services Plan for scale and resiliency, and make informed decisions about AWS storage Enforce strict security, and automate to improve operational efficiency This book with companion training videos is a valuable learning tool for anyone seeking to demonstrate expertise through formal certification. WEB EDITION: All

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buyers of the book or ebook can register your book for access to a free online Web Edition of this title, which included videos embedded within the text, plus updates as they become available.

Grasp the fundamentals of Artificial Intelligence and build your own intelligent systems with ease Key Features Enter the world of AI with the help of solid concepts and real-world use cases Explore AI components to build real-world automated intelligence Become well versed with machine learning and deep learning concepts Book Description Virtual Assistants, such as Alexa and Siri, process our requests, Google's cars have started to read addresses, and Amazon's prices and Netflix's recommended videos are decided by AI. Artificial Intelligence is one of the most exciting technologies and is becoming increasingly significant in the modern world. Hands-On Artificial Intelligence for Beginners will teach you what Artificial Intelligence is and how to design and build intelligent applications. This book will teach you to harness packages such as TensorFlow in order to create powerful AI systems. You will begin with reviewing the recent changes in AI and learning how artificial neural networks (ANNs) have enabled more intelligent AI. You'll explore feedforward, recurrent, convolutional, and generative neural networks (FFNNs, RNNs, CNNs, and GNNs), as well as reinforcement learning methods. In the concluding chapters, you'll learn how to implement these methods for a variety of tasks, such as generating text for chatbots, and playing board and video games. By the end of this book, you will be able to understand exactly what you need to consider when optimizing ANNs and how to deploy and maintain AI applications. What you will learn Use TensorFlow packages to create AI systems Build feedforward, convolutional, and recurrent neural networks Implement generative models for text generation Build reinforcement learning algorithms to

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play games Assemble RNNs, CNNs, and decoders to create an intelligent assistant Utilize RNNs to predict stock market behavior Create and scale training pipelines and deployment architectures for AI systems Who this book is for This book is designed for beginners in AI, aspiring AI developers, as well as machine learning enthusiasts with an interest in leveraging various algorithms to build powerful AI applications.

Everything you need to know for the Solutions Architect - Associate Exam, fully updated The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam is your complete and fully updated resource to the AWS Solutions Architect - Associate certification. This invaluable Sybex study guide covers all relevant aspects of the AWS Solutions Architect job role, including mapping multi-tier architectures to AWS services, loose coupling and stateless systems, applying AWS security features, deploying and managing services, designing large scale distributed systems, and many more. Written by two AWS subject-matter experts, this self-study guide and reference provides all the tools and information necessary to master the exam, earn your certification, and gain insights into the job of an AWS Solutions Architect. Efficient and logical presentation of exam objectives allows for flexible study of topics, and powerful learning tools increase comprehension and retention of key exam elements. Practice questions, chapter reviews, and detailed examination of essential concepts fully prepare you for the AWS Solutions Architect – Associate certification. The certification is highly valued in IT and cloud computing professionals. Now in a new edition—reflecting the latest changes, additions, and updates to the AWS Solutions Architect – Associate certification exam guide—this book is your complete, one-stop resource: Access the Sybex interactive learning environment and test bank, including chapter tests, practice exams, electronic flashcards, and a

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searchable glossary of key terms. Learn all the components of the AWS exam and know what to expect on exam day Review challenging exam topics and focus on the areas that need improvement Expand your AWS skillset and keep pace with current cloud computing technologies The AWS Certified Solutions Architect Study Guide: Associate (SAA-C01) Exam enables you to validate your skills, increase your competitive advantage, and take the next step on your career path.

Comprehensive and up-to-date content and superior study tools make this guide a must-have resource for those seeking AWS Solutions Architect – Associate certification.

Explore the modern market of data analytics platforms and the benefits of using Snowflake computing, the data warehouse built for the cloud. With the rise of cloud technologies, organizations prefer to deploy their analytics using cloud providers such as Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform. Cloud vendors are offering modern data platforms for building cloud analytics solutions to collect data and consolidate into single storage solutions that provide insights for business users. The core of any analytics framework is the data warehouse, and previously customers did not have many choices of platform to use. Snowflake was built specifically for the cloud and it is a true game changer for the analytics market. This book will help onboard you to Snowflake, present best practices to deploy, and use the Snowflake data warehouse. In addition, it covers modern analytics architecture and use cases. It provides use cases of integration with leading analytics software such as Matillion ETL, Tableau, and Databricks. Finally, it covers migration scenarios for on-premise legacy data warehouses. What You Will Learn Know the key functionalities of Snowflake Set up security and access with cluster Bulk load data into Snowflake using the COPY command Migrate from a legacy data warehouse to

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Snowflake integrate the Snowflake data platform with modern business intelligence (BI) and data integration tools Who This Book Is For Those working with data warehouse and business intelligence (BI) technologies, and existing and potential Snowflake users

Stand out as an expert by earning a highly desirable certification in a widely used platformHone your skills and gain new insights into AWS whether you work in a technical, management, sales, purchasing or finance fieldFully prepare for this new exam using expert content and real-world knowledge, key exam essentials, chapter review questions, and other textual resourcesBenefit from access to the Sybex online interactive learning environment and test bank, including chapter tests, practice exams, glossary of key terms and electronic flashcardsThe Study Guide for AWS Certified Cloud Practitioner is essential reading for any IT professional or other fields working directly with AWS, for future graduates studying in those areas, or for anyone who wishes.Understanding AWS
HISTORY OF AMAZON
WEB SERVICES
BENEFITS OF AWS
MYTHS ABOUT AMAZON WEB SERVICES
SAMAZON WEB SERVICES DEVELOPMENT TOOLS AND APPLICATION SERVICES
CLOUD COMPUTING
CLOUD STORAGE
RELATIONAL DATABASE
AWS LIMITATION
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.

The purpose of this book is two-fold, we focus on detailed coverage of deep learning and transfer learning, comparing and contrasting the two with easy-to-follow concepts and examples. The second area of focus is on real-world examples and research problems using TensorFlow, Keras and Python ecosystem with hands-on examples.

This book is intended for expert programmers and architects who want to learn how to migrate the existing infrastructure to AWS Cloud and start using AWS services in all application tiers. Basic knowledge of Java and competence in cloud computing will be needed to follow the examples in this book.

Get to grips with the essentials of deep learning by leveraging the power of Python Key Features Your one-stop solution to get started with the essentials of deep learning and neural network modeling Train different kinds of neural networks to tackle various problems in Natural Language Processing, computer vision, speech recognition, and more Covers popular Python libraries such as Tensorflow, Keras, and more, along with tips on training, deploying and optimizing your deep learning models in the best possible manner Book Description Deep Learning a trending topic in the field of Artificial Intelligence

today and can be considered to be an advanced form of machine learning, which is quite tricky to master. This book will help you take your first steps in training efficient deep learning models and applying them in various practical scenarios. You will model, train, and deploy different kinds of neural networks such as Convolutional Neural Network, Recurrent Neural Network, and will see some of their applications in real-world domains including computer vision, natural language processing, speech recognition, and so on. You will build practical projects such as chatbots, implement reinforcement learning to build smart games, and develop expert systems for image captioning and processing. Popular Python library such as TensorFlow is used in this book to build the models. This book also covers solutions for different problems you might come across while training models, such as noisy datasets, small datasets, and more. This book does not assume any prior knowledge of deep learning. By the end of this book, you will have a firm understanding of the basics of deep learning and neural network modeling, along with their practical applications. What you will learn

- Get to grips with the core concepts of deep learning and neural networks
- Set up deep learning library such as TensorFlow
- Fine-tune your deep learning models for NLP and Computer Vision applications
- Unify different information sources, such as images,

text, and speech through deep learning Optimize and fine-tune your deep learning models for better performance Train a deep reinforcement learning model that plays a game better than humans Learn how to make your models get the best out of your GPU or CPU Who this book is for Aspiring data scientists and machine learning experts who have limited or no exposure to deep learning will find this book to be very useful. If you are looking for a resource that gets you up and running with the fundamentals of deep learning and neural networks, this book is for you. As the models in the book are trained using the popular Python-based libraries such as Tensorflow and Keras, it would be useful to have sound programming knowledge of Python. Your #1 all-in-one reference and exam Study Guide for the UPDATED AWS SysOps Administrator certification! This comprehensive book 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 Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms.

The official study guide for the AWS certification specialty exam *The AWS Certified Advanced Networking Official Study Guide – Specialty Exam* helps to ensure your preparation for the AWS Certified Advanced Networking – Specialty Exam. Expert review of AWS fundamentals align with the exam objectives, and detailed explanations of key exam topics merge with real-world scenarios to help you build the robust knowledge base you need to succeed on the exam—and in the field as an AWS Certified Networking specialist. Coverage includes the design, implementation, and deployment of cloud-based solutions; core AWS services implementation and knowledge of architectural best practices; AWS service architecture design and maintenance; networking automation; and more. You also get one year of free access to Sybex's online interactive

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learning environment and study tools, which features flashcards, a glossary, chapter tests, practice exams, and a test bank to help you track your progress and gauge your readiness as exam day grows near. The AWS credential validates your skills surrounding AWS and hybrid IT network architectures at scale. The exam assumes existing competency with advanced networking tasks, and assesses your ability to apply deep technical knowledge to the design and implementation of AWS services. This book provides comprehensive review and extensive opportunities for practice, so you can polish your skills and approach exam day with confidence. Study key exam essentials with expert insight Understand how AWS skills translate to real-world solutions Test your knowledge with challenging review questions Access online study tools, chapter tests, practice exams, and more Technical expertise in cloud computing, using AWS, is in high demand, and the AWS certification shows employers that you have the knowledge and skills needed to deliver practical, forward-looking cloud-based solutions. The AWS Certified Advanced Networking Official Study Guide – Specialty Exam helps you learn what you need to take this next big step for your career.

Preparing for the AWS Certified Cloud Practitioner exam - and looking for a way to fast-track your exam success? Then these popular training notes for the

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AWS Cloud Practitioner are for you. Based on the latest CLF-C01 exam blueprint, these training notes will shortcut your study time and maximize your chance of passing the AWS Certified Cloud Practitioner exam first time. The scope of coverage of AWS services is based on feedback from Digital Cloud Training's pool of over 250,000 students who have recently taken the AWS exam. This is a great resource for diving deep into each AWS service covered on the AWS exam which saves you from needing to browse hundreds of AWS FAQ pages and sorting through stacks of irrelevant information. For easy navigation, the information on each AWS service in this document is organized into the same categories as they are in the AWS Management Console. Here's how this popular exam prep tool will shortcut your study time: - EVERYTHING YOU NEED TO KNOW - Deep dive into the CLF-C01 exam objectives with 200 pages of detailed facts, tables and diagrams. - ALWAYS UP TO DATE - These key exam essentials reflect the latest CLF-C01 exam blueprint and are regularly updated. - ONLINE PRACTICE TEST - Simulate the real exam with 65 scored and timed practice questions in Digital Cloud Training's online learning environment. - CLEAR LANGUAGE - Focused and to the point presented in an easy-to-read format - GAIN THE EDGE ON EXAM DAY - Learn from AWS subject-matter experts with this essential cheat sheet -

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SAVE VALUABLE TIME - Get straight to the facts you need to know to successfully pass your AWS Certified Cloud Practitioner exam first time. **ABOUT THE AUTHOR** Neal Davis is the founder of Digital Cloud Training and a successful IT instructor. With more than 20 years of experience in the tech industry, Neal is a true expert in cloud computing. His passion is to help others achieve career success by offering in-depth AWS certification training resources. Neal's popular courses have been well received by over 250,000 students worldwide. **2021 BONUS MATERIAL - 120 QUIZ QUESTIONS**

Review your knowledge and test your understanding with a total of 120 unique quiz questions. This way you can easily measure your learning progress. - **SIMULATE THE REAL EXAM** Get FREE access to the online exam simulator from Digital Cloud Training to evaluate your exam readiness. The full-length Practice Tests with 65 unique questions is timed and scored - mimicking the real exam environment so you get familiar with the AWS exam format. Every question includes deep-dive reference links and detailed explanations that explain why each answer is correct or incorrect.

AWS Essentials and Solutions Architect Associate
The Total Course

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 Data Analytics Study Guide to give you the same experience working in these labs as you prepare for the Certified Data Analytics 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 Data Analyst. AWS Certified Data Analytics Study Guide: Specialty (DAS-C01) Exam is intended for individuals who perform in a data analytics-focused role. This UPDATED exam validates an examinee's comprehensive understanding of using AWS services to design, build, secure, and maintain analytics solutions that provide insight from data. It assesses an examinee's ability to define AWS data analytics services and understand how they integrate with each other; and explain how AWS data analytics services fit in the data lifecycle of collection, storage, processing, and visualization. The book focuses on the following domains: • Collection • Storage and Data Management • Processing • Analysis and Visualization • Data Security This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS is the frontrunner in cloud computing products and services, and the AWS Certified Data Analytics Study Guide: Specialty exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review

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questions, and much more. Written by an AWS subject-matter expert, this study guide covers exam concepts, and provides key review on exam topics. Readers will also have access to Sybex's superior online interactive learning environment and test bank, including chapter tests, practice exams, a glossary of key terms, and electronic flashcards. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Data Analytics Labs with 3 unique lab modules based on the book.

Foreword by Werner Vogels, Vice President and Corporate Technology Officer, Amazon The AWS exam has been updated. Your study guide should be, too. The AWS Certified Developer Official Study Guide—Associate Exam is your ultimate preparation resource for the latest exam! Covering all exam objectives, this invaluable resource puts a team of AWS experts at your side with expert guidance, clear explanations, and the wisdom of experience with AWS best practices. You'll master core services and basic architecture, and equip yourself to develop, deploy, and debug cloud-based applications using AWS. The AWS Developer certification is earned by those who demonstrate the technical knowledge and skill associated with best practices for building secure, reliable cloud-based applications using AWS

technology. This book is your official exam prep companion, providing everything you need to know to pass with flying colors. Study the AWS Certified Developer Exam objectives Gain expert insight on core AWS services and best practices Test your understanding of key concepts with challenging chapter questions Access online study tools including electronic flashcards, a searchable glossary, practice exams, and more Cloud computing offers businesses the opportunity to replace up-front capital infrastructure expenses with low, variable costs that scale as they grow. This customized responsiveness has negated the need for far-future infrastructure planning, putting thousands of servers at their disposal as needed—and businesses have responded, propelling AWS to the number-one spot among cloud service providers. Now these businesses need qualified AWS developers, and the AWS certification validates the exact skills and knowledge they're looking for. When you're ready to get serious about your cloud credentials, the AWS Certified Developer Official Study Guide—Associate Exam is the resource you need to pass the exam with flying colors. NOTE: As of October 7, 2019, the accompanying code for hands-on exercises in the book is available for downloading from the secure Resources area in the online test bank. You'll find code for Chapters 1, 2, 11, and 12.

AWS Certifications are industry-recognized credentials that validate your technical cloud skills and expertise while assisting in your career growth. These are one of the most valuable IT certifications right now since AWS has established an overwhelming lead in the public cloud market. Even with the presence of several tough competitors such as Microsoft Azure, Google Cloud Engine, and Rackspace, AWS is by far the dominant public cloud platform today, with an astounding collection of proprietary services that continues to grow. The AWS Certified Cloud Practitioner (CLF-C01) examination is intended for individuals who have the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud, independent of specific technical roles addressed by other AWS certifications (e.g., Solutions Architect - Associate, Developer - Associate, or SysOps Administrator - Associate). The certification will provide you a high level overview on what AWS Cloud is all about. The exam covers four domains, including AWS core services, cloud concepts, security aspect, pricing and support services. AWS Certified Cloud Practitioner is a new entry-level certification and enables individuals to validate their knowledge of the AWS Cloud with an industry-recognized credential. This certification exam validates your ability to define and identify:

- AWS Cloud and its basic global infrastructure
- AWS

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Cloud architectural principles • AWS Cloud value proposition • Key services on the AWS platform and their common use cases (example, compute and analytics) • Basic security and compliance aspects of the AWS platform and the shared security model • Billing, account management, and pricing models • Sources of documentation or technical assistance (example, whitepapers or support tickets) • Basic and core characteristics of deploying and operating in the AWS Cloud

Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in

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AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career. You Are 1-Click Away From Learning How To Ace The Highest Paying AWS Certification, AWS Certified Solutions Architect Certification And Put What You Learn Into Real-Life Use To Develop And Deploy Robust And Secure Applications On AWS! With an average annual salary of over \$130,000 as at 2019, being an AWS Certified Solutions Architect does provide opportunities that few IT certifications can. By virtue that you are reading this, it is clear that you are looking to become Amazon Web

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Services Certified and are looking for everything you can get to pass the certification exam. Where do you begin? What you need to learn AWS Solutions Architect? What does it take to pass the certification exams? In addition to passing the exams, how do you gather the necessary practical skills and knowledge to be able to develop and deploy robust and secure applications on AWS technologies? If you have these and other related questions, this book is for you so keep reading, as it covers the ins and outs of AWS Solutions Architect Certification using a simple, step by step approach that will help you to put what you learn into practice. More precisely, the book will teach you: The basics of cloud computing and virtualization, including the place of AWS, cloud computing, cloud computing optimization, cloud computing architecture, scalability, elasticity, cost management, the AWS cloud, AWS platform architecture, the AWS service level agreement and technical support and online resources and support plans Everything you need to know about compute cloud and amazon elastic block store, practices used to completely use the intensity of the EC2 environment and how to configure an environment for your instance How to provision an EC2 instance with the right hardware, including configuring the right base operating system for your application needs, building a secure network environment, choosing the best EC2 instance,

choosing the right storage drive, securing your EC2, the exam essentials and accessing your instance as an administrator The ins and outs of the Amazon Simple Storage Service and Amazon glacier storage and the exam essentials And much more The truth is that AWS Certified Solutions Architect Certification and practice has a steep learning curve but lucky for you, this book offers the newest and best approach to learning AWS and passing the necessary certification exams. Whether you are new to AWS or you've been working with it, this book will help you find your shortcomings on AWS and develop the right skills that will not only help you pass exams but also put what you learn into real life use. Are you ready to start your journey to getting the highest paying AWS certification? If you are, Just scroll up and click Buy Now With 1-Click or Buy Now to get started today!

Get prepared for the AWS Certified Security Specialty certification with this excellent resource By earning the AWS Certified Security Specialty certification, IT professionals can gain valuable recognition as cloud security experts. The AWS Certified Security Study Guide: Specialty (SCS-C01) Exam helps cloud security practitioners prepare for success on the certification exam. It's also an excellent reference for professionals, covering security best practices and the implementation of security features for clients or employers. Architects

and engineers with knowledge of cloud computing architectures will find significant value in this book, which offers guidance on primary security threats and defense principles. Amazon Web Services security controls and tools are explained through real-world scenarios. These examples demonstrate how professionals can design, build, and operate secure cloud environments that run modern applications. The study guide serves as a primary source for those who are ready to apply their skills and seek certification. It addresses how cybersecurity can be improved using the AWS cloud and its native security services. Readers will benefit from detailed coverage of AWS Certified Security Specialty Exam topics. Covers all AWS Certified Security Specialty exam topics Explains AWS cybersecurity techniques and incident response Covers logging and monitoring using the Amazon cloud Examines infrastructure security Describes access management and data protection With a single study resource, you can learn how to enhance security through the automation, troubleshooting, and development integration capabilities available with cloud computing. You will also discover services and tools to develop security plans that work in sync with cloud adoption.

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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 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 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

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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 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.

Set yourself apart by becoming an AWS Certified Cloud Practitioner Take the next step in your career by expanding and validating your skills on the Amazon Web Services (AWS) Cloud. 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 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 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 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.

Artificial Intelligence (AI) has the potential to address some of the biggest challenges in education today, innovate teaching and learning practices, and ultimately accelerate the progress towards SDG 4. However, these rapid technological developments inevitably bring multiple risks and challenges, which have so far outpaced policy debates and regulatory frameworks. This publication offers guidance for policy-makers on

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how best to leverage the opportunities and address the risks, presented by the growing connection between AI and education. It starts with the essentials of AI: definitions, techniques and technologies. It continues with a detailed analysis of the emerging trends and implications of AI for teaching and learning, including how we can ensure the ethical, inclusive and equitable use of AI in education, how education can prepare humans to live and work with AI, and how AI can be applied to enhance education. It finally introduces the challenges of harnessing AI to achieve SDG 4 and offers concrete actionable recommendations for policy-makers to plan policies and programmes for local contexts.

[Publisher summary, ed]

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 SysOps Administrator Study Guide to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator 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 SysOps Administrator. This comprehensive book 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

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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 Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms. And included with this version of the book, 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 SysOps Administrator Labs with 6 unique lab modules based on the book.

The AWS Cloud Practitioner exam CLF-C01 is your entry point into the AWS certification world. Although it's not a mandatory step. It covers a broad range of topics including cloud concepts, security, technology, and billing and pricing. After passing this exam you'll have an understanding of the core value proposition of AWS and cloud computing in general. You'll understand the key features of AWS and what they can offer. The pricing structure of AWS services and how they compare to traditional data centers and Identify AWS products that can help solve your business needs. Who is this exam for? Taking the exam would benefit a broad range of

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people in the tech industry. This isn't limited to developers and architects. Business analysts, product owners, project managers, etc. Everyone can benefit from the Practioner exam. The exam falls at the base of the AWS certification tree and while it is not a prerequisite for taking some of the more advanced courses. It is required (although not if you have an associate certification already) to take the specialist exams such as security, big data & advanced networking courses. This AWS Cloud Practioner exam CLF-C01 practice test of AWS Web Services has been advanced to test your knowledge before taking the official exam. Unlike other online simulation practice tests, you get an eBook version easy to read & remember these questions. You can simply rely on these 100+ questions for successfully certifying this exam.

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