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Legacy cost optimization Traditional cost optimization tools compile all of the

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At the re:Invent 2018 conference, Amazon announced the immediate availability of their own internally developed ARM servers for their Amazon Web Services (AWS) customers. For many developers this ...

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JSON is easy to understand and quickly mastered, even by users with limited formal programming experience, which has spurred adoption of the format as a quick, approachable way to create interactive ...

JSON (Javascript Object Notation)

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Mastering Linux Administration – Book Review

The other big change in Java EE 6 was the introduction of a web profile. This feature allowed vendors to create Java-EE-6-compliant servers that provided only a subset of the overall Java EE ...

Java Platform, Enterprise Edition (Java EE)

Vertica-as-a-Service now generally available on AWS, expanding deployment and consumption ... And you keep control over data and can fully apply a security and compliance model." ...

Vertica Announces General Availability of Vertica Accelerator

The platform simplifies and expedites the creation of new innovative battery-based sensors and IoT products e.g. smart locks, temperature monitoring sensors, smart security cameras ... sensor demo ...

Ultra-Low Power Wi-Fi Unleashes The Potential for Cloud-Connected IoT Products

“Juniper is enabling an experience-driven operations model where humans can focus on what they want to happen instead of mastering the syntax needed to make it so,” Bushong said. The Juniper ...

With newest switch, Juniper extends reach of intent-based network automation

However, data security and privacy matter are

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anticipated to restrict the global configuration management market growth. Market Segmentation The Global Configuration Management Market is segmented ...

Global Configuration Management Markets, 2021-2026 - Prospective Demand for Synchronizing and Simplifying IT Resources - ResearchAndMarkets.com

LONDON, UK / ACCESSWIRE / September 30, 2021 / Launchnodes, the leading non-custodial services provider on AWS, has announced its first donation to Save the Children, the world's largest child ...

In depth informative guide to implement and use AWS security services effectively. About This Book* Learn to secure your network, infrastructure, data and applications in AWS cloud* Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud* Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security.* Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment. Who This Book Is For This book is for all IT professionals, system administrators and security analysts, solution architects and Chief Information

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Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios.

What You Will Learn*

- Learn about AWS Identity Management and Access control*
- Gain knowledge to create and secure your private network in AWS*
- Understand and secure your infrastructure in AWS*
- Understand monitoring, logging and auditing in AWS*
- Ensure Data Security in AWS*
- Learn to secure your applications in AWS*
- Explore AWS Security best 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

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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 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.

In depth informative guide to implement and use AWS security services effectively. About This Book Learn to secure your network, infrastructure, data and applications in AWS cloud Log, monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud Use AWS managed security services to automate security. Focus on increasing your business rather than being diverged onto security risks and issues with AWS security. Delve deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secure environment. Who This Book Is For This book

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is for all IT professionals, system administrators and security analysts, solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations. It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle. This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively. If you are learning AWS or championing AWS adoption in your organization, you should read this book to build security in all your workloads. You will benefit from knowing about security footprint of all major AWS services for multiple domains, use cases, and scenarios.

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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 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.

This book constitutes the refereed proceedings of the 11th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage. The 45 revised full papers were carefully reviewed and selected from 120 submissions. The papers cover many dimensions including security algorithms and architectures, privacy-aware policies, regulations and techniques, anonymous computation and communication, encompassing fundamental theoretical approaches, practical experimental projects, and commercial

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application systems for computation, communication and storage.

Build scalable and production-ready infrastructure in Amazon Web Services with CloudFormation Key Features Leverage AWS CloudFormation templates to manage your entire infrastructure Get up and running with writing your infrastructure as code and automating your environment Simplify infrastructure management and increase productivity with AWS CloudFormation Book Description DevOps and the cloud revolution have forced software engineers and operations teams to rethink how to manage infrastructures. With this AWS book, you'll understand how you can use Infrastructure as Code (IaC) to simplify IT operations and manage the modern cloud infrastructure effectively with AWS CloudFormation. This comprehensive guide will help you explore AWS CloudFormation from template structures through to developing complex and reusable infrastructure stacks. You'll then delve into validating templates, deploying stacks, and handling deployment failures. The book will also show you how to leverage AWS CodeBuild and CodePipeline to automate resource delivery and apply continuous integration and continuous delivery (CI/CD) practices to the stack. As you advance, you'll learn how to generate templates on the fly using macros and create resources outside AWS with custom resources. Finally, you'll improve the way

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you manage the modern cloud in AWS by extending CloudFormation using AWS serverless application model (SAM) and AWS cloud development kit (CDK). By the end of this book, you'll have mastered all the major AWS CloudFormation concepts and be able to simplify infrastructure management. What you will learn

- Understand modern approaches to IaC
- Develop universal and reusable CloudFormation templates
- Discover ways to apply continuous delivery with CloudFormation
- Implement IaC best practices for the AWS Cloud
- Provision massive applications across multiple regions and accounts
- Automate template generation and software provisioning for AWS
- Extend CloudFormation with custom resources and template macros

Who this book is for

If you are a developer who wants to learn how to write templates, a DevOps engineer interested in deployment and orchestration, or a solutions architect looking to understand the benefits of managing infrastructure with ease, this book is for you. Prior understanding of the AWS Cloud is necessary.

This fast-paced guide will quickly enhance your skills to develop a highly scalable Cloud environment

- Key Features
- Efficiently build a highly scalable and reliable cloud environment for your applications with AWS
- Leverage the various AWS components and services to build a secure, reliable, and robust environment to host your applications

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on This quick-start guide will quickly enhance your skills to develop highly scalable services Book Description AWS is at the forefront of Cloud Computing today. Businesses are adopting AWS Cloud because of its reliability, versatility, and flexible design. The main focus of this book is teaching you how to build and manage highly reliable and scalable applications and services on AWS. It will provide you with all the necessary skills to design, deploy, and manage your applications and services on the AWS cloud platform. We'll start by exploring Amazon S3, EC2, and so on to get you well-versed with core Amazon services. Moving on, we'll teach you how to design and deploy highly scalable and optimized workloads. You'll also discover easy-to-follow, hands-on steps, tips, and recommendations throughout the book and get to know essential security and troubleshooting concepts. By the end of the book, you'll be able to create a highly secure, fault tolerant, and scalable environment for your applications to run on. What you will learn Find out about IAM to access AWS services securely Explore EC2 (virtual server) and scale up/down your application based on heavy traffic Learn about unlimited data storage service S3 and host a static website within minutes Get to grips with Relational Databases and NoSQL databases under the AWS ecosystem Understand the caching mechanism Get to know about notifications service and monitor AWS

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services Secure and troubleshoot your AWS architecture Who this book is for This book is for IT professionals and system administrators looking to design, deploy, and manage your applications and services on the AWS cloud platform. It's also ideal for developers looking to build highly scalable cloud-based services. A basic understanding of AWS would be beneficial.

Key concepts, sample applications, best practices, and troubleshooting tips to build highly scalable applications in AWS. Key Features Design highly available, cost efficient, fault tolerant, and scalable distributed systems A practical guide that will help you build, deploy, and manage applications with ease. Develop effective solutions with AWS SDK and Lambda Book Description Continuous deployment and Agile methodology have enabled huge advances in modern applications. This book will enable the reader to make use of this rapidly evolving technology to build highly scalable applications within AWS using different architectures. You will begin with installation of AWS SDK and you will get hands-on experience on creating an application using AWS Management Console and AWS Command Line Interface (CLI). Next you will be integrating Applications with AWS services such as DynamoDB, Amazon Kinesis, AWS Lambda, Amazon SQS and Amazon SWF Following this you will get well versed with

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CI/CD workflow and work with four major phases in Release processes – Source, Build, Test and Production. Next you will learn to apply AWS developer tools in your Continuous Integration (CI) and Continuous Deployment (CD) WorkFlow. Later you will learn about User Authentication using Amazon Cognito and also how you can evaluate the best architecture as per your infrastructure costs. You will learn about Amazon EC2 service and deploy an app using Amazon EC2. You will also get well versed with container service which is Amazon EC2 Container Service (Amazon ECS) and you will learn to deploy an app using Amazon ECS. Along with EC2 and ECS, you will also deploying a practical real-world example of a CI/CD application with the Serverless Application Framework which is known as AWS Lambda. Finally you will learn how to build, develop and deploy the Application using AWS Developer tools like AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy and AWS CodePipeline as per project needs. Also you can develop and deploy applications within minutes using AWS CodeStar from wizard. By the end of this book, the reader will effectively build, deploy, and manage applications on AWS along with scaling and securing applications with best practices and troubleshooting tips. What you will learn Learn how to get up and running with AWS Developer Tools. Integrate the four major phases in the Release Processes. Source,

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Build, Test and Production. Learn how to integrate Continuous Integration, Continuous Delivery, and Continuous Deployment in AWS. Make secure, scalable and fault tolerant applications. Understand different architectures and deploy complex architectures within minutes Who this book is for This book targets developers who would like to build and manage web and mobile applications and services on the AWS platform. If you are an architect you will be able to take a deep dive and use examples that can be readily applied to real world scenarios. Some prior programming experience is assumed along with familiarity of cloud computing.

Your one step guide to learn all about AWS networking. Key Features Master your networking skills on Public Cloud Gain hands-on experience of using Amazon VPC, Elastic Load Balancing, Direct Connect and other AWS products Implement troubleshooting skills and best practices for security on AWS network Book Description Amazon Web Services (AWS) dominates the public cloud market by a huge margin and continues to be the first choice for many organizations. Networking has been an area of focus for all the leading cloud service providers. AWS has a suite of network-related products which help in performing network related task on AWS. This book initially covers the basics of networking in AWS. Then we use AWS VPC to create an

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isolated virtual cloud for performing network-related tasks. We then provide an overview of AWS Direct Connect after taking a deep dive into scalability and load balancing using the auto scaling feature, Elastic Load Balancing, and Amazon Route S3. Toward the end of the book, we cover troubleshooting tips and security best practices for your network. By the end of this book, you will have hands-on experience of working with network tasks on AWS. What you will learn Overview of all networking services available in AWS Gain work with load balance applications across different regions Learn auto scale instances based on increases and decreases in traffic Deploy applications in a highly available and fault tolerant manner Configure Route 53 for a web application Troubleshooting tips and best practices Who this book is for This book is for cloud architects, cloud solution providers, or any stakeholders dealing with networking on AWS Cloud. A prior idea of Amazon Web Services will be an added advantage.

Secure public and private cloud workloads with this comprehensive learning guide. Key Features Take your cloud security functions to the next level by automation Learn to automate your security functions on AWS and OpenStack Practical approach towards securing your workloads efficiently Book Description Security issues are still a major concern for all IT organizations. For many enterprises,

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the move to cloud computing has raised concerns for security, but when applications are architected with focus on security, cloud platforms can be made just as secure as on-premises platforms. Cloud instances can be kept secure by employing security automation that helps make your data meet your organization's security policy. This book starts with the basics of why cloud security is important and how automation can be the most effective way of controlling cloud security. You will then delve deeper into the AWS cloud environment and its security services by dealing with security functions such as Identity and Access Management and will also learn how these services can be automated. Moving forward, you will come across aspects such as cloud storage and data security, automating cloud deployments, and so on. Then, you'll work with OpenStack security modules and learn how private cloud security functions can be automated for better time- and cost-effectiveness. Toward the end of the book, you will gain an understanding of the security compliance requirements for your Cloud. By the end of this book, you will have hands-on experience of automating your cloud security and governance. What you will learn

- Define security for public and private cloud services
- Address the security concerns of your cloud
- Understand Identity and Access Management
- Get acquainted with cloud storage and network security
- Improve and optimize

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public and private cloud security Automate cloud security Understand the security compliance requirements of your cloud Who this book is for This book is targeted at DevOps Engineers, Security professionals, or any stakeholders responsible for securing cloud workloads. Prior experience with AWS or OpenStack will be an advantage.

Learn Chef Provisioning like a boss and finally own your infrastructure About This Book This is the first Chef book focused on provisioning infrastructure as its sole task. The book offers a clear solution to a specific pain point: learn to make your system work faster. Learning better approaches to load balancing and parallelization with this book will save you time By mastering the techniques in this book, you will know how to run an entire fleet of machines without breaking a sweat This book is more helpful than the documentation (<https://docs.chef.io/provisioning.html>), with a stronger guiding voice and clearer explanations and use cases Who This Book Is For This book is for Software Engineers, System Administrators, or DevOps Engineers who need to quickly deliver reliably consistent infrastructure at scale. You are expected to have intermediate experience with Chef and Ruby and will be reading this book to advance your knowledge and take your skillset to the next level. What You Will

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Learn Use best practices to describe your entire infrastructure as code Automate and document every aspect of your network, from the hardware of individual nodes to software, middleware, and all containers and clouds Create a perfect model system Make the best possible use of your resources and avoid redundancy Deliver on the promise of Infrastructure as Code Scale with ease by properly provisioning their infrastructure Use the best Test Driven Development methodologies In Detail This book will show you the best practices to describe your entire infrastructure as code. With the help of this book you can expand your knowledge of Chef because and implement robust and scalable automation solutions. You can automate and document every aspect of your network, from the hardware to software, middleware, and all your containers. You will become familiar with the Chef's Chef Provisioning tool. You will be able to make a perfect model system where everything is represented as code beneath your fingertips. Make the best possible use of your resources, and deliver infrastructure as code, making it as versionable, testable and repeatable as application software Style and approach By dedicating a whole book solely to the question of provisioning, this book will teach administrators to use Chef as a birds-eye lens for their entire system. It will moves you away from the specifics of each machine and its automations and instead will

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teach you them how to approach the entire cluster as something different than the sum of its parts. By focusing on infrastructure as code as its own project, the book offers elegant, time-saving solutions for a perfectly described and automated network.

Build cost-effective and highly scalable Serverless applications using AWS Lambda. About This Book Leverage AWS Lambda to significantly lower your infrastructure costs and deploy out massively scalable, event-driven systems and applications Learn how to design and build Lambda functions using real-world examples and implementation scenarios Explore the Serverless ecosystem with a variety of toolsets and AWS services including DynamoDB, API Gateway, and much more! Who This Book Is For If you are a Cloud administrator and/or developer who wishes to explore, learn, and leverage AWS Lambda to design, build, and deploy Serverless applications in the cloud, then this is the book for you! The book assumes you have some prior knowledge and hands-on experience with AWS core services such as EC2, IAM, S3, along with the knowledge to work with any popular programming language such as Node.js, Java, C#, and so on. What You Will Learn Understand the hype, significance, and business benefits of Serverless computing and applications Plunge into the Serverless world of AWS Lambda and master its core components and how it works Find out how to effectively and

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efficiently design, develop, and test Lambda functions using Node.js, along with some keen coding insights and best practices Explore best practices to effectively monitor and troubleshoot Serverless applications using AWS CloudWatch and other third-party services in the form of Datadog and Loggly Quickly design and develop Serverless applications by leveraging AWS Lambda, DynamoDB, and API Gateway using the Serverless Application Framework (SAF) and other AWS services such as Step Functions Explore a rich variety of real-world Serverless use cases with Lambda and see how you can apply it to your environments In Detail AWS is recognized as one of the biggest market leaders for cloud computing and why not? It has evolved a lot since the time it started out by providing just basic services such as EC2 and S3 and today; they go all the way from IoT to Machine Learning, Image recognition, Chatbot Frameworks, and much more! One of those recent services that is also gaining a lot of traction is AWS Lambda! Although seemingly simple and easy to use, Lambda is a highly effective and scalable compute service that provides developers with a powerful platform to design and develop Serverless event-driven systems and applications. The book begins with a high-level introduction into the world of Serverless computing and its advantages and use cases, followed by a deep dive into AWS Lambda! You'll learn what services AWS Lambda provides to developers; how to design,

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write, and test Lambda functions; as well as monitor and troubleshoot them. The book is designed and accompanied with a vast variety of real-world examples, use cases, and code samples that will enable you to get started on your Serverless applications quickly. By the end of the book, you will have gained all the skills required to work with AWS Lambda services! Style and approach This step-by-step guide will help you build Serverless applications and run Serverless workloads using the AWS Lambda service. You'll be able to get started with it in a matter of minutes with easy-to-follow code snippets and examples.

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