

Streaming Data Solutions On Aws With Amazon Kinesis

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many organizations today have begun to modernize their windows workloads to take full advantage of cloud economics if you're a c developer at one of these companies you need options for rehosting replatforming and refactoring your existing net framework applications this practical book guides you through the process of converting your monolithic application to microservices on aws authors noah gift founder of pragmatic ai labs and james charlesworth engineering manager at pendo take you through the depth and breadth of net tools on aws you'll examine modernization techniques and pathways for incorporating linux and windows containers and serverless architecture to build maintain and scale modern net apps on aws with this book you'll learn how to make your applications more modern resilient and cost effective get started building solutions with c on aws learn devops best practices for aws explore the development tools and services that aws provides successfully migrate a legacy net application to aws develop serverless net microservices on aws containerize your net applications and move into the cloud

monitor and test your aws net applications build cloud native solutions that combine the best of the net platform and aws

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 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 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 services will be an added advantage

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native tooling discover how to implement logging and monitoring using aws native tooling gain a solid understanding of the services included in the aws devops professional exam reinforce security practices on the aws platform from an exam point of view find out how to automatically enforce standards and policies in aws environments explore aws best practices and anti patterns enhance your core aws skills with the help of exercises and practice tests who this book is for this book is for aws developers and sysops administrators looking to advance their careers by achieving the highly sought after devops professional certification basic knowledge of aws as well as its core services ec2 s3 and rds is needed familiarity with devops concepts such as source control monitoring and logging not necessarily in the aws context will be helpful

learn to build robust security controls for the infrastructure data and applications in the aws cloud key features takes a comprehensive layered security approach that covers major use cases covers key aws security features leveraging the cli and management console step by step instructions for all topics with graphical illustrations relevant code samples written in javascript for node js runtime description if you're looking for a comprehensive guide to amazon services aws security this book is for you with the help of this book cloud professionals and the security team will learn how to protect their cloud infrastructure components and applications from external and internal threats the book uses a comprehensive layered security approach to look into the relevant aws services in each layer and discusses how to use them it begins with an overview of the cloud's shared responsibility model and how to effectively use the aws identity and access management iam service to configure identities and access controls for various services and components the subsequent chapter covers aws infrastructure security data security and aws application layer security finally the concluding chapters introduce the various logging monitoring and auditing services available in aws and the book ends with a chapter on aws security best practices by the end as readers you will gain the knowledge and skills necessary to make informed decisions and put in place security controls to create aws application ecosystems that are highly secure what you will learn learn to create a layered security architecture and employ defense in depth master aws iam and protect apis use aws waf aws secrets manager and aws systems manager parameter store learn to secure data in amazon s3 ebs dynamodb and rds using aws key management service secure amazon vpc filter ips use amazon inspector use ecr image scans etc protect cloud infrastructure from ddos attacks and use aws shield who this book is for the book is intended for cloud architects and security professionals interested in delving deeper into the aws cloud's security ecosystem and determining the optimal way to leverage aws security features working knowledge of aws and its core services is necessary table of contents 1 introduction to security in aws 2 identity and access management 3 infrastructure security 4 data security 5 application security 6 logging monitoring and auditing 7 security best practices

physical data centers require lots of equipment and take time and resources to manage if you need a data center but don't want to build your own amazon services may be your solution whether you're analyzing real time data building software as a service or running an e-commerce site aws offers you a reliable cloud based platform with services that scale amazon services in action introduces your to

computing storing and networking in the aws cloud you'll start with an overview of cloud computing and then begin setting up your account you'll learn options and techniques for storing your data you'll also learn how to isolate your systems using private networks to increase security finally this book teaches you how to design for high availability and fault tolerance back cover

with this practical book ai and machine learning practitioners will learn how to successfully build and deploy data science projects on amazon services the amazon ai and machine learning stack unifies data science data engineering and application development to help level up your skills this guide shows you how to build and run pipelines in the cloud then integrate the results into applications in minutes instead of days throughout the book authors chris fregly and antje barth demonstrate how to reduce cost and improve performance apply the amazon ai and ml stack to real world use cases for natural language processing computer vision fraud detection conversational devices and more use automated machine learning to implement a specific subset of use cases with sagemaker autopilot dive deep into the complete model development lifecycle for a bert based nlp use case including data ingestion analysis model training and deployment tie everything together into a repeatable machine learning operations pipeline explore real time ml anomaly detection and streaming analytics on data streams with amazon kinesis and managed streaming for apache kafka learn security best practices for data science projects and workflows including identity and access management authentication authorization and more

achieve operational excellence by running scalable testable modular repeatable extendable and customizable infrastructure key features leverage aws cloudformation to manage your entire infrastructure get up and running with maintaining your infrastructure as code and automating your environment simplify infrastructure management and increase productivity with aws cloudformation purchase of the print or kindle book includes a free pdf ebook book description the advent of devops and the cloud revolution has compelled software engineers and operations teams to rethink how to manage complex infrastructures and build resilient solutions with this aws book you'll find out how you can use infrastructure as code iac to simplify infrastructure operations and manage the modern cloud with aws cloudformation this guide covers aws cloudformation comprehensively from template structures to developing complex and reusable infrastructure stacks it takes you through template validation stack deployment and handling deployment failures it also demonstrates the use of aws codebuild and codepipeline for automating resource delivery and implementing continuous integration and continuous delivery ci cd practices as you advance you'll learn how to modularize and unify your template on the fly using macros or by fixating the version using modules you'll create resources outside of aws with custom resources and catalog them with the cloudformation registry finally you'll improve the way you manage the modern cloud environment on aws by extending cloudformation through the aws serverless application model sam and the aws cloud development kit cdk by the end of this book you'll have mastered key aws cloudformation concepts and will be able to extend its capabilities for developing and deploying your own infrastructure what you will learn understand modern approaches to iac develop universal modular and reusable cloudformation templates discover ways of applying continuous delivery with cloudformation implement iac best practices in the aws cloud provision massive applications across

multiple regions and accounts automate template generation and software provisioning for aws extend cloudformation features with custom resources and the registry modularize and unify templates using modules and macros who this book is for if you are a developer who wants to learn how to write templates a devops engineer or sre interested in deployment and orchestration or a solutions architect looking to understand the benefits of streamlined and scalable infrastructure management this book is for you prior understanding of the aws cloud is necessary

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many organizations today have begun to modernize their windows workloads to take full advantage of cloud economics if you re a c developer at one of these companies you need options for rehosting replatforming and refactoring your existing net framework applications this practical book guides you through the process of converting your monolithic application to microservices on aws authors noah gift founder of pragmatic ai labs and james charlesworth engineering manager at pendo take you through the depth and breadth of net tools on aws you ll examine modernization techniques and pathways for incorporating linux and windows containers and serverless architecture to build maintain and scale modern net apps on aws with this book you ll learn how to make your applications more modern resilient and cost effective get started building solutions with c on aws learn devops best practices for aws explore the development tools and services that aws provides successfully migrate a legacy net application to aws develop serverless net

microservices on aws containerize your net applications and move into the cloud monitor and test your aws net applications build cloud native solutions that combine the best of the net platform and aws

summary serverless architectures on aws teaches you how to build secure and manage serverless architectures that can power the most demanding web and mobile apps forewords by patrick debois founder of devopsdays and dr donald f ferguson columbia university purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology there s a shift underway toward serverless cloud architectures with the release of serverless computer technologies such as aws lambda developers are now building entirely serverless platforms at scale in these new architectures traditional back end servers are replaced with cloud functions acting as discrete single purpose services by composing and combining these serverless cloud functions together in a loose orchestration and adopting useful third party services developers can create powerful yet easy to understand applications about the book serverless architectures on aws teaches you how to build secure and manage serverless architectures that can power the most demanding web and mobile apps you ll get going quickly with this book s ready made real world examples code snippets diagrams and descriptions of architectures that can be readily applied by the end you ll be able to architect and build your own serverless applications on aws what s inside first steps with serverless computing important patterns and architectures writing aws lambda functions and using the api gateway composing serverless applications using key services like auth0 and firebase securing deploying and managing serverless architectures about the reader this book is for software developers interested in back end technologies experience with javascript node js and aws is useful but not required about the author dr peter sbarski is a well known aws expert vp of engineering at a cloud guru and head of serverlessconf table of contents part 1 first steps going serverless architectures and patterns building a serverless application setting up your cloud part 2 core ideas authentication and authorization lambda the orchestrator api gateway part 3 growing your architecture storage database going the last mile appendixes services for your serverless architecture installation and setup more about authentication and authorization lambda insider models and mapping

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with the aws best practices and mock papers to test your knowledge by the end of this book you will not only be fully prepared to pass the aws certified solutions architect associate exam but also capable of building secure and reliable applications what you will learnexplore aws terminology and identity and access managementacquaint yourself with important cloud services and features in categories such as compute network storage and databasesdefine access control to secure aws resources and set up efficient monitoringback up your database and ensure high availability by understanding all of the database related services in the aws cloudintegrate aws with your applications to meet and exceed non functional requirementsbuild and deploy cost effective and highly available applicationswho this book is for the aws certified solutions architect associate guide is for you if you are an it professional or solutions architect wanting to pass the aws certified solution architect associate 2018 exam this book is also for developers looking to start building scalable applications on aws

revamp your data landscape and implement highly effective data pipelines in aws with this hands on guide purchase of the print or kindle book includes a free pdf ebook key features execute extract transform and load etl tasks on data lakes data warehouses and databases implement effective pandas data operation with data wrangler integrate pipelines with aws data services book descriptiondata wrangling is the process of cleaning transforming and organizing raw messy or unstructured data into a structured format it involves processes such as data cleaning data integration data transformation and data enrichment to ensure that the data is accurate consistent and suitable for analysis data wrangling on aws equips you with the knowledge to reap the full potential of aws data wrangling tools first you ll be introduced to data wrangling on aws and will be familiarized with data wrangling services available in aws you ll understand how to work with aws glue databrew aws data wrangler and aws sagemaker next you ll discover other aws services like amazon s3 redshift athena and quicksight additionally you ll explore advanced topics such as performing pandas data operation with aws data wrangler optimizing ml data with aws sagemaker building the data warehouse with glue databrew along with security and monitoring aspects by the end of this book you ll be well equipped to perform data wrangling using aws services what you will learn explore how to write simple to complex transformations using aws data wrangler use abstracted functions to extract and load data from and into aws datastores configure aws glue databrew for data wrangling develop data pipelines using aws data wrangler integrate aws security features into data wrangler using identity and access management iam optimize your data with aws sagemaker who this book is for this book is for data engineers data scientists and business data analysts looking to explore the capabilities tools and services of data wrangling on aws for their etl tasks basic knowledge of python pandas and a familiarity with aws tools such as aws glue amazon athena is required to get the most out of this book

work through interesting real life business use cases to uncover valuable insights from unstructured text using aws ai services key featuresget to grips with aws ai services for nlp and find out how to use them to gain strategic insightsrun python code to use amazon textract and amazon comprehend to accelerate business outcomesunderstand how you can integrate human in the loop for custom nlp use cases with amazon a2ibook description natural language processing nlp uses machine

learning to extract information from unstructured data this book will help you to move quickly from business questions to high performance models in production to start with you'll understand the importance of NLP in today's business applications and learn the features of Amazon Comprehend and Amazon Textract to build NLP models using Python and Jupyter notebooks the book then shows you how to integrate AI in applications for accelerating business outcomes with just a few lines of code throughout the book you'll cover use cases such as smart text search setting up compliance and controls when processing confidential documents real time text analytics and much more to understand various NLP scenarios you'll deploy and monitor scalable NLP models in production for real time and batch requirements as you advance you'll explore strategies for including humans in the loop for different purposes in a document processing workflow moreover you'll learn best practices for auto scaling your NLP inference for enterprise traffic whether you're new to ML or an experienced practitioner by the end of this NLP book you'll have the confidence to use AWS AI services to build powerful NLP applications what you will learn automate various NLP workflows on AWS to accelerate business outcomes use Amazon Textract for text tables and handwriting recognition from images and PDF files gain insights from unstructured text in the form of sentiment analysis topic modeling and more using Amazon Comprehend set up end to end document processing pipelines to understand the role of humans in the loop develop NLP based intelligent search solutions with just a few lines of code create both real time and batch document processing pipelines using Python who this book is for if you're an NLP developer or data scientist looking to get started with AWS AI services to implement various NLP scenarios quickly this book is for you it will show you how easy it is to integrate AI in applications with just a few lines of code a basic understanding of machine learning ML concepts is necessary to understand the concepts covered experience with Jupyter notebooks and Python will be helpful

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 diverted 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 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 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

bring the best out of devops and build deploy and maintain applications on aws about this book work through practical examples and gain devops best practices to successfully deploy applications on aws successfully provision and operate distributed application systems and your aws infrastructure using devops perform continuous integration and deployment and fine tune the way you deliver on aws who this book is for this book is for system administrators and developers who manage aws infrastructure and environments and are planning to implement devops in their organizations those aiming for the aws certified devops engineer certification will also find this book useful prior experience of operating and managing aws environments is expected what you will learn design and deploy infrastructure as code within your aws virtual private cloud implement continuous integration using aws services configure ec2 instances using saltstack implement continuous deployment using jenkins and the aws cli collect important metrics and log data to gain more insight into infrastructure and applications troubleshooting popular issues with some less known techniques using the aws platform in detail knowing how to adopt devops in your organization is becoming an increasingly important skill for developers whether you work for a start up an smb or an enterprise this book will help you to drastically reduce the amount of time spent on development and increase the reliability of your software deployments on aws using popular devops methods of automation to start you will get familiar with the concept of iac and will learn to design deploy and maintain aws infrastructure further on you ll see how to design and deploy a continuous integration platform on aws using either open source or aws provided tools services following on from the delivery part of the process you will learn how to deploy a newly created tested and verified artefact to the aws infrastructure without manual intervention you will then find out what to consider in order to make the implementation of configuration management easier and more effective toward the end of the book you will learn some tricks and tips to optimize and secure your aws environment by the end of the book you will have mastered the art of implementing devops practices onto aws style and approach this book is packed full of real world examples demonstrating use cases that help you deploy devops best practices on aws

perform cloud based machine learning and deep learning using amazon services such

as sagemaker lex comprehend translate and polly key featuresexplore popular machine learning and deep learning services with their underlying algorithmsdiscover readily available artificial intelligence ai apis on aws like vision and language servicesdesign robust architectures to enable experimentation extensibility and maintainability of ai appsbook description from data wrangling through to translating text you can accomplish this and more with the artificial intelligence and machine learning services available on aws with this book you ll work through hands on exercises and learn to use these services to solve real world problems you ll even design develop monitor and maintain machine and deep learning models on aws the book starts with an introduction to ai and its applications in different industries along with an overview of aws artificial intelligence and machine learning services you ll then get to grips with detecting and translating text with amazon rekognition and amazon translate the book will assist you in performing speech to text with amazon transcribe and amazon polly later you ll discover the use of amazon comprehend for extracting information from text and amazon lex for building voice chatbots you will also understand the key capabilities of amazon sagemaker such as wrangling big data discovering topics in text collections and classifying images finally you ll cover sales forecasting with deep learning and autoregression before exploring the importance of a feedback loop in machine learning by the end of this book you will have the skills you need to implement ai in aws through hands on exercises that cover all aspects of the ml model life cycle what you will learn gain useful insights into different machine and deep learning modelsbuild and deploy robust deep learning systems to productiontrain machine and deep learning models with diverse infrastructure specificationsscale ai apps without dealing with the complexity of managing the underlying infrastructuremonitor and manage ai experiments efficientlycreate ai apps using aws pre trained ai serviceswho this book is for this book is for data scientists machine learning developers deep learning researchers and artificial intelligence enthusiasts who want to harness the power of aws to implement powerful artificial intelligence solutions a basic understanding of machine learning concepts is expected

mastering cloud platforms with aws a comprehensive guide to amazon services and cloud computing unlock the full potential of cloud computing with mastering cloud platforms with aws this all encompassing guide is designed for it professionals developers and business leaders who want to harness the power of amazon services aws to drive innovation enhance scalability and optimize performance in their organizations whether you re new to cloud computing or looking to deepen your aws expertise this book provides the knowledge and tools you need to excel in the ever evolving digital landscape dive deep into the world of aws with clear explanations practical examples and hands on tutorials that make complex concepts accessible and actionable from setting up your first aws environment to mastering advanced services and architectures mastering cloud platforms with aws covers every aspect of aws cloud computing ensuring you have a solid foundation and the expertise to tackle any project what you ll learn aws fundamentals understand the core services of aws including ec2 s3 rds and vpc and how they form the backbone of cloud infrastructure cloud architecture best practices learn how to design scalable resilient and cost effective architectures using aws well architected framework principles security and compliance implement robust security measures with iam encryption and compliance tools to protect your data and applications serverless

computing explore aws lambda api gateway and other serverless services to build efficient and scalable applications without managing servers devops on aws integrate devops practices with aws tools like codepipeline codebuild and cloudformation to automate and streamline your development workflows data management and analytics leverage aws data services such as redshift athena and kinesis for powerful data storage processing and analytics solutions machine learning and ai utilize aws sagemaker and other ai services to build train and deploy machine learning models that drive intelligent applications migration strategies discover best practices for migrating existing applications and data to aws with minimal downtime and disruption monitoring and optimization use aws cloudwatch x ray and trusted advisor to monitor performance troubleshoot issues and optimize your cloud resources real world case studies gain insights from successful aws implementations across various industries demonstrating practical applications and solutions with step by step guidance real world scenarios and expert tips mastering cloud platforms with aws empowers you to build deploy and manage sophisticated cloud solutions that meet the demands of today's businesses whether you're aiming to achieve aws certification migrate to the cloud or enhance your cloud management skills this book is your essential companion on the journey to cloud mastery start your cloud computing journey today and transform your approach to technology with mastering cloud platforms with aws your definitive guide to amazon services and cloud computing excellence

master essential best practices for deploying and managing applications on amazon services this revised bestseller is packed with techniques for building highly available and scalable architectures and automating deployment with infrastructure as code leverage globally distributed data centers to launch virtual machines with ec2 store and archive large volumes of data with ebs s3 and efs persist and query data with highly available and scalable database systems with rds and dynamodb enhance performance with caching data in memory with elasticache and memorydb use infrastructure as code to automate your cloud infrastructure secure workloads running in the cloud with vpc and iam build fault tolerant web applications with alb and sqs automate common sysadmin tasks with lambda cli and sdk build cloud native applications based on containers with apprunner ecs fargate thousands of developers have chosen amazon services in action an in depth guide to aws to help them succeed with the aws cloud readers love this all practical handbook for its complete introduction to computing storage and networking along with best practices for all core aws services this revised third edition features new chapters on containerization along with a variety of aws innovations you'll also learn how automating your infrastructure with iac is a game changer for your cloud deployment delivering a massive boost to efficiency and quality about the technology amazon services the leading cloud computing platform offers customers apis for on demand access to computing services rich in examples and best practices of how to use aws this manning bestseller is now released in its third revised and improved edition about the book in amazon services in action third edition an in depth guide to aws the wittig brothers give you a comprehensive practical introduction to deploying and managing applications on the aws cloud platform with a sharp focus on the most important aws tasks and services they will save you hours of unproductive time you'll learn hands on as you complete real world projects like hosting a wordpress site setting up a private cloud and deploying an

app on containers what's inside leverage globally distributed data centers to launch virtual machines enhance performance with caching data in memory secure workloads running in the cloud with vpc and iam build fault tolerant web applications with alb and sqs about the reader written for mid level developers devops or platform engineers architects and system administrators about the author andreas wittig and michael wittig are software engineers and consultants focused on aws together they migrated the first bank in germany to aws in 2013

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