STREAMING DATA SOLUTION ON AWS WITH AMAZON KINESIS

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What Kinesis tool is used to create and stream data? Amazon Kinesis Firehose Kinesis Firehose is used to reliably load large-scale streaming data into data lakes, data sources, and analytics services. Firehose can ingest, process, and deliver streaming data to any number of endpoints and services.

What is Kinesis data stream in AWS? Amazon Kinesis Data Streams is a serverless streaming data service that simplifies the capture, processing, and storage of data streams at any scale.

What is streaming data in AWS? Streaming data is data that is emitted at high volume in a continuous, incremental manner with the goal of low-latency processing. Organizations have thousands of data sources that typically simultaneously emit messages, records, or data ranging in size from a few bytes to several megabytes (MB).

Which of these AWS services is recommended to handle streaming data in AWS? Amazon Data Firehose is the easiest way to load streaming data into AWS. It can capture, transform, and deliver streaming data to Amazon S3, Amazon Redshift, OpenSearch Service, generic HTTP endpoints, and service providers such as Datadog, New Relic, MongoDB, and Splunk.

How do I create a data stream in Kinesis?

What is the difference between Kinesis data stream and Kafka? Performance-wise, Kafka has a clear advantage over Kinesis. Let's not forget that Kafka consistently gets better throughput than Kinesis. Kafka can reach a throughput of

30k messages per second, whereas the throughput of Kinesis is much lower, but still solidly in the thousands.

When to use AWS kinesis?

What are the benefits of Kinesis in AWS? Benefits of using Kinesis Data Streams Data is put into Kinesis data streams, which ensures durability and elasticity. The delay between the time a record is put into the stream and the time it can be retrieved (put-to-get delay) is typically less than 1 second.

How do you put data into Amazon Kinesis data stream? To put data into the stream, you must specify the name of the stream, a partition key, and the data blob to be added to the stream. The partition key is used to determine which shard in the stream the data record is added to. All the data in the shard is sent to the same worker that is processing the shard.

What is a data streaming solution? Also known as event stream processing, streaming data is the continuous flow of data generated by various sources. By using stream processing technology, data streams can be processed, stored, analyzed, and acted upon as it's generated in real-time.

Which AWS service is used for streaming? The CloudFront distribution delivers your live stream to viewers with low latency and high transfer speeds. An S3 bucket stores the CloudFront logs. AWS Elemental MediaLive, ingests an input feed and transcodes your content into one adaptive bitrate (ABR) HTTP Live Streaming (HLS) stream as output.

What is an example of streaming data? Examples of Streaming Data The most common use cases for data streaming are streaming media, stock trading, and real-time analytics. However, data stream processing is broadly applied in nearly every industry today.

What is AWS Kinesis data stream? Amazon Kinesis Data Streams is a serverless streaming data service that makes it easy to capture, process, and store data streams at any scale.

When to use Kinesis data streams vs firehose? Kinesis Data Streams: Best for applications requiring real-time analytics, complex processing, or temporary data

storage. Kinesis Firehose: Ideal for simple, real-time data delivery needs without the necessity of storage or complex processing.

What is Kinesis firehose in AWS? Amazon Data Firehose is the easiest way to capture, transform, and deliver data streams into Amazon S3, Amazon Redshift, Amazon OpenSearch Service, Splunk, Snowflake, and other 3rd party analytics services. The name change is effective in the AWS Management Console, documentation, and service web pages.

Is Kinesis data stream real-time? Amazon Kinesis is a managed service provided by AWS for real-time data streaming. Kinesis provides capabilities to continuously capture and store terabytes of data per hour from hundreds of thousands of sources. The data can then be processed and analyzed in real-time.

How long does Kinesis data stream store data? A Kinesis data stream stores records from 24 hours by default, up to 8760 hours (365 days).

What is an Amazon Kinesis data stream a set of? A Kinesis data stream is a set of shards. Each shard has a sequence of data records. Each data record has a sequence number that is assigned by Kinesis Data Streams.

Is Kinesis data stream push or pull? Kinesis Data Streams pushes the records to you over HTTP/2 using SubscribeToShard.

Can Kinesis replace Kafka? Both Kafka and Kinesis offer cost-effective, scalable, and low-latency streaming options. As a managed solution, Kinesis is better suited for small teams that have very little or no DevOps capacity, whereas the open-ended configurability of Kafka is better suited for larger teams with more complex streaming needs.

What is the replacement of Kafka in AWS? Multiple producers and consumers can publish and retrieve messages at the same time. Q: What is the AWS equivalent of Kafka? A: There are multiple products in the AWS cloud that can provide similar Pub/Sub functionality to Kafka, including Kinesis Data Streams, Amazon MQ, Amazon MSK, and Confluent Cloud.

What is Kinesis data firehose used for? Kinesis Firehose is used to LOAD streaming data to a target destination (S3, Elasticsearch, Splunk, etc). You can also

transform streaming data (by using Lambda) before loading it to destination. Data from failed attempts will be saved to S3.

What is the tool that can be used to check for data stream? Google Cloud DataFlow Google has created its cloud-based streaming analytics tool. It is part of the services provided by the Google Cloud platform. It is built on Apache Beam, a unified programming model for batch and streaming data processing.

What is Kinesis data generator? The Amazon Kinesis Data Generator is a UI that simplifies how you send test data to Amazon Kinesis Streams or Amazon Kinesis Firehose. Using the Amazon Kinesis Data Generator, you can create templates for your data, create random values to use for your data, and save the templates for future use.

How do I create a Kinesis delivery stream? Open the Amazon Kinesis services console . Choose Firehose and then choose Create delivery stream. On the New delivery stream page, for Delivery stream name, enter ticketUploadStream , and then choose Next. On the Process records page, choose Next.

Unlocking Building Costs with SPONS Architects and Builders Price Book (Free)

As a homeowner, builder, or architect, understanding construction costs is crucial. Enter SPONS Architects and Builders Price Book, your comprehensive guide to estimating project expenses. This valuable resource is now available for free, empowering you with accurate cost data.

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Question: Why is the Price Book available for free? Answer: SPONS is committed to providing the industry with essential tools. By making the Price Book free, they aim to democratize cost information and support the success of professionals and homeowners alike.

Question: How can I access the free Price Book? Answer: Simply visit the SPONS website at https://spons.com/price-book/ and create a free account. You'll gain instant access to the latest edition, complete with searchable data and customizable estimates.

Question: What's the difference between the free and paid versions of the Price Book? Answer: The free version provides the core cost data, including materials, labor, and equipment. The paid version offers additional features such as quantity takeoffs, customizable reports, and advanced calculations.

Question: How accurate is the cost data in the Price Book? Answer: SPONS maintains rigorous quality control measures to ensure the accuracy of its cost data. It sources information from industry professionals, manufacturers, and government agencies, delivering reliable estimates for informed decision-making.

Can you design your own house blueprints? You can certainly create your own floor plan without being a professional as long as you have the right tools and a bit of creative inspiration.

What schooling do you need to design house plans?

How can I design my own house ideas? Get Inspired It's a good idea to start by browsing interior design magazines, online resources, and visiting model homes or even actual homes for sale in your area to get ideas. You can create a Pinterest board or a physical inspiration board to keep all your ideas in one place.

Can I design my own house without an architect? Unless your local building code absolutely requires an architect, most residential homes do not need to hire an architect. Part of the excitement of building a new home or doing a major retrofit is spending time creatively designing the space that you will inhabit.

Is there a website where I can design my own house for free? Whether you're a homeowner, a design student, or an interior design pro, you'll love using Canva Whiteboards for your house design project. With Canva's intuitive design tools for modern house plans, you can easily create 2D floor plans that you can use as your blueprint for your home build or refurbishment project.

How much does an architect charge to draw house plans? Architects cost $2,000 to $20,000 to draw basic plans or $15,000 to $80,000+ for full house design and services. Average architect fees are 8% to 15% of construction costs to draw house plans or 10% to 20% for remodels. Architects charge hourly rates of $100 to $250 or $2 to $15 per square foot.

What program do house designers use? AutoCAD Architecture AutoCAD Architecture software has an architectural library of 8,500+ components. It uses architecture, engineering, and construction (AEC) features to design realistic and spatially-aware homes, objects, and floor plans.

What do you call a person who draws house plans? A person who designs buildings is an architect. If you become an architect, you'll be responsible for drawing the blueprints, planning the work, and sometimes even overseeing the construction of a building.

Where to start when designing a house?

Is it expensive to design your own home? Architects charge design fees based on several factors, including the complexity of the project, their experience, and the scale of the home. For a luxury residence, architectural fees typically range from 8% to 15% of the total construction cost - that's $40,000 - $75,000 for every $500,000 in construction cost.

Is there an app to design your own home? RoomSketcher is a popular app that allows you to create floor plans, visualize your space in 3D, and even decorate your home virtually. With the app, you can draw your floor plan, furnish your space with furniture, and add decorative elements to create a realistic view of your future home.

Can you draw house plans yourself? Designing a house plan yourself can save a lot of time and money, and it is also really fun. Many local authorities require a house blueprint together with the permit application. If you have already designed the house layout, an architect can finalize the plan and convert it into a blueprint relatively quickly.

Can I design my own house and build it? Although it's possible to form your own house design and blueprint, you can save time by working with a professional

architect. An architect will translate your plans for the house's structure into a reality. You'll also need to contract a builder who can construct the house itself.

Can I draw up my own plans? You are neither required by law to have an architect submit your planning application or design your home. In fact, anyone can put together a set of floorplans.

How much does it cost to design blueprints? Square Footage In most cases, blueprints cost between $0.50 and $10 per square foot or an average of around $4 per square foot.

The Prince and Discourses: Niccolò Machiavelli's Insights on Power and Politics

Niccolò Machiavelli's influential works, "The Prince" and "The Discourses," have shaped political thought for centuries. These writings offer Machiavelli's unique perspectives on power, leadership, and the art of governance.

1. What is the Central Argument of "The Prince"?

In "The Prince," Machiavelli argues that a ruler must be willing to do whatever it takes to acquire and maintain power. He advocates for a pragmatic approach, where the ends justify the means. Machiavelli believes that a ruler should not be concerned with morality or ethics but rather with effectiveness and success.

2. What are the Key Principles of Machiavelli's Political Theory?

Machiavelli emphasizes the importance of virtù, or political skill and determination. He argues that a ruler must be strong, cunning, and adaptable. Other key principles include the use of deception and force to achieve desired outcomes.

3. What is the Significance of "The Discourses"?

"The Discourses" explores the nature of different forms of government, from republics to monarchies. Machiavelli analyzes the historical development of Rome and Florence, drawing lessons on the strengths and weaknesses of each political system. He advocates for a mixed government that combines elements of different constitutional models.

4. How Do "The Prince" and "The Discourses" Interrelate?

While "The Prince" focuses on the individual ruler, "The Discourses" examines the broader political and institutional context. Together, these works provide a comprehensive analysis of power and governance. Machiavelli's insights remain relevant today, as leaders and societies navigate the complexities of political life.

5. What is the Legacy of Machiavelli's Political Thought?

Machiavelli's writings have been both celebrated and condemned. Some view him as a cynical realist who advocated for immoral behavior. Others see him as a keen observer of human nature who provided valuable insights into the realities of power. Machiavelli's influence continues to resonate in contemporary discussions about politics, leadership, and the nature of the state.

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