Amazon AIP-C01 Questions - Tips To Pass Exam 2026

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Students are given a fixed amount of time to complete each test, thus Amazon Exam Questions candidate's ability to control their time and finish the AWS Certified Generative AI Developer - Professional (AIP-C01) exam in the allocated time is a crucial qualification. Obviously, this calls for lots of practice. Taking Itexamguide AIP-C01 Practice Exam helps you get familiar with the AWS Certified Generative AI Developer - Professional (AIP-C01) exam questions and work on your time management skills in preparation for the real AWS Certified Generative AI Developer - Professional (AIP-C01) exam.

Amazon AIP-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• Implementation and Integration: This domain focuses on building agentic AI systems, deploying foundation models, integrating GenAI with enterprise systems, implementing FM APIs, and developing applications using AWS tools.
Topic 2	• Foundation Model Integration, Data Management, and Compliance: This domain covers designing GenAI architectures, selecting and configuring foundation models, building data pipelines and vector stores, implementing retrieval mechanisms, and establishing prompt engineering governance.
Topic 3	• Operational Efficiency and Optimization for GenAI Applications: This domain encompasses cost optimization strategies, performance tuning for latency and throughput, and implementing comprehensive monitoring systems for GenAI applications.

Topic 4	• AI Safety, Security, and Governance: This domain addresses input • output safety controls, data security and privacy protections, compliance mechanisms, and responsible AI principles including transparency and fairness.
Topic 5	• Testing, Validation, and Troubleshooting: This domain covers evaluating foundation model outputs, implementing quality assurance processes, and troubleshooting GenAI-specific issues including prompts, integrations, and retrieval systems.

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Amazon AWS Certified Generative AI Developer - Professional Sample Questions (Q13-Q18):

NEW QUESTION # 13
A company is building a real-time voice assistant system to assist customer service representatives during customer calls. The system must convert audio calls to text with end-to-end latency of less than 500 ms. The system must use generative AI (GenAI) to produce response suggestions. Human supervisors must be able to rate the system ' s suggestions during a live customer call. The company must store all customer interactions to comply with auditing policies. Which solution will meet these requirements?

- A. Use the Amazon Transcribe streaming API with 100-ms audio chunks to optimize latency for the voice assistant. Call the Amazon Bedrock InvokeModelWithResponseStream operation to process client inquiries in real time. Store supervisor ratings in an Amazon DynamoDB table.
- B. Use the Amazon Transcribe streaming API with standard settings to convert speech to text. Use Amazon Bedrock batch processing to perform inference. Store call recordings and metadata in Amazon S3. Use S3 Lifecycle policies to manage the storage.
- C. Use Amazon Transcribe to convert speech to text and to perform real-time analytics. Use Amazon Comprehend to perform sentiment analysis. Use Amazon SQS to queue processing tasks. Run the Amazon Bedrock InvokeModel operation to generate responses.
- D. Use Amazon Transcribe batch processing to perform post-call analysis. Configure AWS Lambda functions to generate responses by using the Amazon Bedrock InvokeModel operation. Use Amazon CloudWatch to log supervisor feedback.

Answer: A

Explanation:
To achieve the ultra-low latency requirement of less than 500 ms, the system must utilize streaming capabilities at every stage. Using Amazon Transcribe streaming with small (100-ms) audio chunks ensures that transcription begins immediately as the customer speaks. On the model side, Amazon Bedrock's InvokeModelWithResponseStream allows the application to receive tokens as they are generated, rather than waiting for the entire completion, which is critical for real-time interactions. Amazon DynamoDB is the ideal choice for storing supervisor ratings during a live call because it provides the single-digit millisecond latency required for high-frequency writes without impacting the application ' s performance. Options involving batch processing or SQS queuing are unsuitable for sub-500 ms interactive requirements.

NEW QUESTION # 14
A company uses an application to process customer support tickets. The company wants to integrate AI- powered sentiment analysis and auto-response generation into the application by using Amazon Bedrock. The company wants to prioritize urgent issues and reduce initial response times by 40% compared to manual responses. The solution must process 100 concurrent webhook requests with response times under 500 ms.
The solution must maintain 99.9% availability across multiple AWS Regions and authenticate all incoming requests. The company must avoid any authentication failures. The company does not want to modify the existing application infrastructure, which includes

several ticketing systems that use multiple webhook authentication methods. The solution must support scaling to handle occasional spikes up to 250,000 daily tickets during peak periods. Which solution will meet these requirements?

- A. Deploy an AWS AppSync GraphQL API to multiple Regions. Configure API tokens to authenticate incoming requests. Create GraphQL mutation resolvers that publish events to Amazon EventBridge.Configure EventBridge rules to invoke AWS Lambda functions that use Amazon Bedrock to perform sentiment analysis and generate responses. Use Amazon CloudFront to reduce latency.
- B. Use an Amazon API Gateway REST API with a Regional endpoint to receive webhook requests and invoke AWS Lambda functions. Configure Lambda authorizers to validate all the webhook authentication methods. Configure the Lambda functions to call Amazon Bedrock to perform sentiment analysis and generate responses. Store results in Amazon DynamoDB global tables to provide multi- Region availability.
- C. Set up an Amazon SQS queue in each Region to receive webhook messages. Use the SQS queue to invoke AWS Lambda functions that call Amazon Comprehend to perform sentiment analysis and Amazon Lex to generate responses. Use Amazon EventBridge to retry message delivery to the application API.
- D. Create AWS Lambda function URLs for each ticketing system. Configure the function URLs with the NONE authentication type. Configure separate Lambda functions to verify webhook signatures by using Hash-based Message Authentication Code (HMAC) validation in the function code. Deploy the functions to multiple Regions and use AWS Global Accelerator to route traffic. Use Amazon Bedrock to perform sentiment analysis and generate responses. Return responses through webhook callbacks.

Answer: B

Explanation:
To handle high concurrency (100+ requests) with sub-500 ms response times and diverse authentication methods without infrastructure changes, Amazon API Gateway with Lambda authorizers is the optimal choice. The Lambda authorizers can evaluate multiple authentication tokens or signatures centrally before the request reaches the processing logic, preventing unauthorized traffic and potential authentication failures at scale. AWS Lambda integrated with Amazon Bedrock provides the scalability to handle ticket surges (up to
250,000 daily) without over-provisioning resources. For high availability (99.9%) and multi-region resilience, storing the resulting sentiment and responses in Amazon DynamoDB global tables ensures that data is accessible across regions with minimal latency. Option B is less secure due to the " NONE " auth type, and Option C introduces queuing latency that may exceed the 500 ms target.

NEW QUESTION # 15
A financial services company uses an AI application to process financial documents by using Amazon Bedrock. During business hours, the application handles approximately 10,000 requests each hour, which requires consistent throughput.
The company uses the CreateProvisionedModelThroughput API to purchase provisioned throughput. Amazon CloudWatch metrics show that the provisioned capacity is unused while on-demand requests are being throttled. The company finds the following code in the application:
response = bedrock_runtime.invoke_model(
modelId="anthropic.claude-v2",
body=json.dumps(payload)
)
The company needs the application to use the provisioned throughput and to resolve the throttling issues.
Which solution will meet these requirements?

- A. Add exponential backoff retry logic to handle throttling exceptions during peak hours.
- B. Modify the application to use the invokeModelWithResponseStream API instead of the invokeModel API.
- C. Increase the number of model units (MUs) in the provisioned throughput configuration.
- D. Replace the model ID parameter with the ARN of the provisioned model that the CreateProvisionedModelThroughput API returns.

Answer: D

Explanation:
Option B is the correct solution because Amazon Bedrock provisioned throughput is only used when the application explicitly invokes the provisioned model ARN, not the base foundation model ID. In the provided code, the application is calling the standard model identifier (anthropic.claude-v2), which routes requests to on-demand capacity instead of the purchased provisioned throughput.
When the CreateProvisionedModelThroughput API is used, Amazon Bedrock returns a provisioned model ARN that represents the

reserved capacity. Applications must reference this ARN in the modelId parameter when invoking the model. If the base model ID is used instead, Bedrock treats the request as on-demand traffic, which explains why CloudWatch metrics show unused provisioned capacity alongside throttled on- demand requests.
Option A would increase capacity but would not fix the root cause because the application is not using the provisioned resource at all. Option C adds resiliency but does not ensure usage of provisioned throughput and would still incur throttling. Option D changes the response delivery mechanism but does not affect capacity routing.
Therefore, Option B directly resolves the throttling issue by correctly routing traffic to the reserved capacity and ensures that the company benefits from the provisioned throughput it has purchased.

NEW QUESTION # 16
A company is developing a generative AI (GenAI) application that uses Amazon Bedrock foundation models.
The application has several custom tool integrations. The application has experienced unexpected token consumption surges despite consistent user traffic.
The company needs a solution that uses Amazon Bedrock model invocation logging to monitor InputTokenCount and OutputTokenCount metrics. The solution must detect unusual patterns in tool usage and identify which specific tool integrations cause abnormal token consumption. The solution must also automatically adjust thresholds as traffic patterns change.
Which solution will meet these requirements?

- A. Store model invocation logs in Amazon S3. Use AWS Glue and Amazon Athena to analyze token usage trends.
- B. Use Amazon CloudWatch Logs to capture model invocation logs. Create CloudWatch metric filters to extract tool-specific invocation patterns. Apply CloudWatch anomaly detection alarms that automatically adjust baselines for each tool's token metrics.
- C. Use Amazon CloudWatch Logs to capture model invocation logs. Create CloudWatch dashboards for token metrics. Configure static CloudWatch alarms with fixed thresholds for each tool integration.
- D. Store model invocation logs in an Amazon S3 bucket. Use AWS Lambda to process logs in real time.Manually update CloudWatch alarm thresholds based on trends identified by the Lambda function.

Answer: B

Explanation:
Option C best meets the requirements by combining native Amazon Bedrock logging with adaptive monitoring and minimal operational overhead. Amazon Bedrock model invocation logging can be sent directly to CloudWatch Logs, where detailed fields such as InputTokenCount, OutputTokenCount, and tool invocation metadata are captured for each request.
CloudWatch metric filters allow extraction of structured metrics from logs, including tool-specific token consumption patterns. By defining filters per tool integration, the company can isolate which tools are responsible for increased token usage without building custom log-processing pipelines.
CloudWatch anomaly detection provides automatic baseline modeling and dynamic thresholds based on historical traffic patterns. Unlike static alarms, anomaly detection adapts as usage evolves, making it ideal for applications with changing workloads or seasonal usage patterns. This directly satisfies the requirement to automatically adjust thresholds as traffic patterns change.
When abnormal token consumption occurs, anomaly detection alarms trigger immediately, enabling rapid investigation and remediation. Because this solution uses fully managed AWS services without custom analytics jobs or manual threshold tuning, it significantly reduces operational effort.
Option A fails to adapt to changing patterns. Option B introduces batch analysis and delayed insights. Option D requires manual intervention and custom code, increasing maintenance burden.
Therefore, Option C provides the most scalable, adaptive, and low-maintenance solution for monitoring and controlling token consumption in Amazon Bedrock-based applications.

NEW QUESTION # 17
A financial services company wants to develop an Amazon Bedrock application that gives analysts the ability to query quarterly earnings reports and financial statements. The financial documents are typically 5-100 pages long and contain both tabular data and text. The application must provide contextually accurate responses that preserve the relationship between financial metrics and their explanatory text. To support accurate and scalable retrieval, the application must incorporate document segmentation and context management strategies.
Which solution will meet these requirements?

- A. Use a direct model invocation approach that uses Anthropic Claude to process each financial document as a single input. Use fine-tuned prompts that instruct the model to parse tables and text separately.
- B. Deploy an Amazon Bedrock agent that has an action group that calls custom AWS Lambda functions to analyze financial

documents. Configure the Lambda functions to perform fixed-size chunking when a user submits a query about financial metrics.

- C. Use Amazon Bedrock Knowledge Bases to create a Retrieval Augmented Generation (RAG) application that retrieves relevant information from contextually chunked sections of financial documents. Segment documents based on their structural layout. Include citations that reference the original source materials.
- D. Create one specialized Amazon Bedrock application that is optimized for structured data. Create a second application that is optimized for unstructured data. Configure each application to use a tailored chunking strategy that is suited to the application's content type. Implement logic to link queries to the appropriate sources.

Answer: C

Explanation:
Option B best satisfies the requirements because it directly applies Retrieval Augmented Generation principles using managed Amazon Bedrock Knowledge Bases, which are designed to handle large, complex documents while preserving contextual relationships. Financial reports often interleave tables with explanatory narrative, and accurate analysis depends on keeping those elements logically connected. By segmenting documents based on their structural layout-for example, sections, subsections, tables, and surrounding commentary-the knowledge base can retrieve semantically relevant chunks that maintain this relationship during inference.
Amazon Bedrock Knowledge Bases support contextual chunking strategies that go beyond simple fixed-size segmentation. This is critical for financial documents, where a metric in a table may be explained in adjacent paragraphs or footnotes. Context-aware chunking ensures that retrieved content includes both the numeric data and its interpretation, enabling the foundation model to generate accurate, grounded responses. Including citations further improves analyst trust and auditability by allowing users to trace answers back to specific source sections, which is a common requirement in financial environments.
Scalability is another key requirement. Knowledge Bases manage embedding generation, indexing, and retrieval orchestration as a managed service, which allows the solution to scale across large document collections without requiring custom infrastructure or model hosting. This approach also supports efficient updates as new quarterly reports are added, ensuring the retrieval layer remains current.
Option A does not scale well because processing entire 5-100 page documents in a single prompt increases token usage, latency, and cost while risking context truncation. Option C relies on fixed-size chunking triggered at query time, which often breaks semantic relationships in structured financial content. Option D introduces unnecessary architectural complexity by splitting structured and unstructured data into separate applications, increasing operational overhead without providing better contextual retrieval than a unified RAG approach.

NEW QUESTION # 18
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