# Amazon-Web-Services

## Exam Questions AIP-C01

AWS Certified Generative AI Developer - Professional

**NEW QUESTION 1**
A company is building a serverless application that uses AWS Lambda functions to help students around the world summarize notes. The application uses Anthropic Claude through Amazon Bedrock. The company observes that most of the traffic occurs during evenings in each time zone. Users report experiencing throttling errors during peak usage times in their time zones.
The company needs to resolve the throttling issues by ensuring continuous operation of the application. The solution must maintain application performance quality and must not require a fixed hourly cost during low traffic periods.
Which solution will meet these requirements?

A. Create custom Amazon CloudWatch metrics to monitor model error
B. Set provisioned throughput to a value that is safely higher than the peak traffic observed.
C. Create custom Amazon CloudWatch metrics to monitor model error
D. Set up a failover mechanism to redirect invocations to a backup AWS Region when the errors exceed a specified threshold.
E. Enable invocation logging in Amazon Bedroc
F. Monitor key metrics such as Invocations, InputTokenCount, OutputTokenCount, and InvocationThrottle
G. Distribute traffic across cross-Region inference endpoints.
H. Enable invocation logging in Amazon Bedroc
I. Monitor InvocationLatency, InvocationClientErrors, and InvocationServerErrors metric
J. Distribute traffic across multiple versions of the same model.

**Answer:** C

**NEW QUESTION 2**
A company uses an AI assistant application to summarize the company??s website content and provide information to customers. The company plans to use Amazon Bedrock to give the application access to a foundation model (FM).
The company needs to deploy the AI assistant application to a development environment and a production environment. The solution must integrate the environments with the FM. The company wants to test the effectiveness of various FMs in each environment. The solution must provide product owners with the ability to easily switch between FMs for testing purposes in each environment.
Which solution will meet these requirements?

A. Create one AWS CDK applicatio
B. Create multiple pipelines in AWS CodePipelin
C. Configure each pipeline to have its own settings for each F
D. Configure the application to invoke the Amazon Bedrock FMs by using the aws_bedrock.ProvisionedModel.fromProvisionedModelArn() method.
E. Create a separate AWS CDK application for each environmen
F. Configure the applications to invoke the Amazon Bedrock FMs by using the aws_bedrock.FoundationModel.fromFoundationModelId() metho
G. Create a separate pipeline in AWS CodePipeline for each environment.
H. Create one AWS CDK applicatio
I. Configure the application to invoke the Amazon Bedrock FMs by using the aws_bedrock.FoundationModel.fromFoundationModelId() metho
J. Create a pipeline in AWS CodePipeline that has a deployment stage for each environment that uses AWS CodeBuild deploy actions.
K. Create one AWS CDK application for the production environmen
L. Configure the application to invoke the Amazon Bedrock FMs by using the aws_bedrock.ProvisionedModel.fromProvisionedModelArn() metho
M. Create a pipeline in AWS CodePipelin
N. Configure the pipeline to deploy to the production environment by using an AWS CodeBuild deploy actio
O. For the development environment, manually recreate the resources by referring to the production application code.

**Answer:** C

**NEW QUESTION 3**
A company is designing an API for a generative AI (GenAI) application that uses a foundation model (FM) that is hosted on a managed model service. The API must stream responses to reduce latency, enforce token limits to manage compute resource usage, and implement retry logic to handle model timeouts and partial responses.
Which solution will meet these requirements with the LEAST operational overhead?

A. Integrate an Amazon API Gateway HTTP API with an AWS Lambda function to invoke Amazon Bedroc
B. Use Lambda response streaming to stream response
C. Enforce token limits within the Lambda functio
D. Implement retry logic for model timeouts by using Lambda and API Gateway timeout configurations.
E. Connect an Amazon API Gateway HTTP API directly to Amazon Bedroc
F. Simulate streaming by using client-side pollin
G. Enforce token limits on the fronten
H. Configure retry behavior by using API Gateway integration settings.
I. Connect an Amazon API Gateway WebSocket API to an Amazon ECS service that hosts a containerized inference serve
J. Stream responses by using the WebSocket protoco
K. Enforce token limits within Amazon EC
L. Handle model timeouts by using ECS task lifecycle hooks and restart policies.
M. Integrate an Amazon API Gateway REST API with an AWS Lambda function that invokes Amazon Bedroc
N. Use Lambda response streaming to stream response
O. Enforce token limits within the Lambda functio
P. Implement retry logic by using Lambda and API Gateway timeout configurations.

**Answer:** A

**NEW QUESTION 4**
A company has set up Amazon Q Developer Pro licenses for all developers at the company. The company maintains a list of approved resources that developers must use when developing applications. The approved resources include internal libraries, proprietary algorithmic techniques, and sample code with approved styling.
A new team of developers is using Amazon Q Developer to develop a new Java-based application. The company must ensure that the new developer team uses the company??s approved resources. The company does not want to make project-level modifications.

Which solution will meet these requirements?

A. Create a Git repository that contains all of the approved internal libraries, algorithms, and code sample
B. Include this Git repository in the application project locally as part of the workspac
C. Ensure that the developers use the workspace context to retrieve suggestions from the Git repository.
D. In the project root folder, create a folder named amazonq/rule
E. Add the approved internal libraries, algorithms, and code samples to the folder.
F. Create a folder in the application project named rule
G. Store the guidelines and code in the folder for Amazon Q Developer to reference for code suggestions.
H. Create an Amazon Q Developer customization that includes the approved data source
I. Ensure that the developers use the customization to develop the application.

**Answer:** D

**NEW QUESTION 5**
Company configures a landing zone in AWS Control Tower. The company handles sensitive data that must remain within the European Union. The company must use only the eu-central-1 Region. The company uses Service Control Policies (SCPs) to enforce data residency policies. GenAI developers at the company are assigned IAM roles that have full permissions for Amazon Bedrock.
The company must ensure that GenAI developers can use the Amazon Nova Pro model through Amazon Bedrock only by using cross-Region inference (CRI) and only in eu- central-1. The company enables model access for the GenAI developer IAM roles in Amazon Bedrock. However, when a GenAI developer attempts to invoke the model through the Amazon Bedrock Chat/Text playground, the GenAI developer receives the following error:
User arn:aws:sts:123456789012:assumed-role/AssumedDevRole/DevUserName Action: bedrock:InvokeModelWithResponseStream
On resource(s): arn:aws:bedrock:eu-west-3::foundation-model/amazon.nova-pro-v1:0 Context: a service control policy explicitly denies the action
The company needs a solution to resolve the error. The solution must retain the company's existing governance controls and must provide precise access control. The solution must comply with the company's existing data residency policies.
Which combination of solutions will meet these requirements? (Select TWO.)

A. Add an AdministratorAccess policy to the GenAI developer IAM role
B. Extend the existing SCPs to enable CRI for the eu.amazon.nova-pro-v1:0 inference profile
C. Enable Amazon Bedrock model access for Amazon Nova Pro in the eu-west-3 Region
D. Validate that the GenAI developer IAM roles have permissions to invoke Amazon Nova Pro through the eu.amazon.nova-pro-v1:0 inference profile on all European Union AWS Regions that can serve the model
E. Extend the existing SCP to enable CRI for the eu-* inference profile

**Answer:** BE

**NEW QUESTION 6**
An ecommerce company is using Amazon Bedrock to build a generative AI (GenAI) application. The application uses AWS Step Functions to orchestrate a multi-agent workflow to produce detailed product descriptions. The workflow consists of three sequential states: a description generator, a technical specifications validator, and a brand voice consistency checker. Each state produces intermediate reasoning traces and outputs that are passed to the next state. The application uses an Amazon S3 bucket for process storage and to store outputs.
During testing, the company discovers that outputs between Step Functions states frequently exceed the 256 KB quota and cause workflow failures. A GenAI Developer needs to revise the application architecture to efficiently handle the Step Functions 256 KB quota and maintain workflow observability. The revised architecture must preserve the existing multi-agent reasoning and acting (ReAct) pattern.
Which solution will meet these requirements with the LEAST operational overhead?

A. Store intermediate outputs in Amazon DynamoD
B. Pass only references between state
C. Create a Map state that retrieves the complete data from DynamoDB when required for each agent's processing step.
D. Configure an Amazon Bedrock integration to use the S3 bucket URI in the input parameters for large output
E. Use the ResultPath and ResultSelector fields to route S3 references between the agent steps while maintaining the sequential validation workflow.
F. Use AWS Lambda functions to compress outputs to less than 256 KB before each agent stat
G. Configure each agent task to decompress outputs before processing and to compress results before passing them to the next state.
H. Configure a separate Step Functions state machine to handle each agent??s processin
I. Use Amazon EventBridge to coordinate the execution flow between state machine
J. Use S3 references for the outputs as event data.

**Answer:** B

**NEW QUESTION 7**
A healthcare company is using Amazon Bedrock to build a system to help practitioners make clinical decisions. The system must provide treatment recommendations to physicians based only on approved medical documentation and must cite specific sources. The system must not hallucinate or produce factually incorrect information.
Which solution will meet these requirements with the LEAST operational overhead?

A. Integrate Amazon Bedrock with Amazon Kendra to retrieve approved document
B. Implement custom post-processing to compare generated responses against source documents and to include citations.
C. Deploy an Amazon Bedrock Knowledge Base and connect it to approved clinical source document
D. Use the Amazon Bedrock RetrieveAndGenerate API to return citations from the knowledge base.
E. Use Amazon Bedrock and Amazon Comprehend Medical to extract medical entitie
F. Implement verification logic against a medical terminology database.
G. Use an Amazon Bedrock knowledge base with Retrieve API calls and InvokeModel API calls to retrieve approved clinical source document
H. Implement verification logic to compare against retrieved sources and to cite sources.

**Answer:** B

**NEW QUESTION 8**
A retail company has a generative AI (GenAI) product recommendation application that uses Amazon Bedrock. The application suggests products to customers based on browsing history and demographics. The company needs to implement fairness evaluation across multiple demographic groups to detect and measure

bias in recommendations between two prompt approaches. The company wants to collect and monitor fairness metrics in real time. The company must receive an alert if the fairness metrics show a discrepancy of more than 15% between demographic groups. The company must receive weekly reports that compare the performance of the two prompt approaches.
Which solution will meet these requirements with the LEAST custom development effort?

A. Configure an Amazon CloudWatch dashboard to display default metrics from Amazon Bedrock API call
B. Create custom metrics based on model output
C. Set up Amazon EventBridge rules to invoke AWS Lambda functions that perform post-processing analysis on model responses and publish custom fairness metrics.
D. Create the two prompt variants in Amazon Bedrock Prompt Managemen
E. Use Amazon Bedrock Flows to deploy the prompt variants with defined traffic allocatio
F. Configure Amazon Bedrock guardrails to monitor demographic fairnes
G. Set up Amazon CloudWatch alarms on the GuardrailContentSource dimension by using InvocationsIntervened metrics to detect recommendation discrepancy threshold violations.
H. Set up Amazon SageMaker Clarify to analyze model output
I. Publish fairness metrics to Amazon CloudWatc
J. Create CloudWatch composite alarms that combine SageMaker Clarify bias metrics with Amazon Bedrock latency metrics.
K. Create an Amazon Bedrock model evaluation job to compare fairness between the two prompt variant
L. Enable model invocation logging in Amazon CloudWatc
M. Set up CloudWatch alarms for InvocationsIntervened metrics with a dimension for each demographic group.

**Answer:** B

**NEW QUESTION 9**
A company is using Amazon Bedrock to develop a customer support AI assistant. The AI assistant must respond to customer questions about their accounts. The AI assistant must not expose personal information in responses. The company must comply with data residency policies by ensuring that all processing occurs within the same AWS Region where each customer is located.
The company wants to evaluate how effective the AI assistant is at preventing the exposure of personal information before the company makes the AI assistant available to customers.
Which solution will meet these requirements?

A. Configure a cross-Region Amazon Bedrock guardrail to apply sensitive information filter
B. Set the guardrail to detect mode during development and testin
C. Switch to block mode for production deployment.
D. Configure an Amazon Bedrock guardrail to apply sensitive information filter
E. Set theguardrail to mask mode during development and testin
F. Switch to block mode for production deploymen
G. Deploy a copy of the guardrail to each Region where the company operates.
H. Configure an Amazon Bedrock guardrail to apply content and topic filter
I. Set the guardrail to detect mode during development, testing, and productio
J. Disable invocation logging for the Amazon Bedrock model.
K. Configure a cross-Region Amazon Bedrock guardrail to apply a set of content and word filter
L. Set the guardrail to detect mode during development and testin
M. Switch to mask mode for production deployment.

**Answer:** B

**NEW QUESTION 10**
A company is building a video analysis platform on AWS. The platform will analyze a large video archive by using Amazon Rekognition and Amazon Bedrock. The platform must comply with predefined privacy standards. The platform must also use secure model I/O, control foundation model (FM) access patterns, and provide an audit of who accessed what and when.
Which solution will meet these requirements?

A. Configure VPC endpoints for Amazon Bedrock model API call
B. Implement Amazon Bedrock guardrails to filter harmful or unauthorized content in prompts and response
C. Use Amazon Bedrock trace events to track all agent and model invocations for auditing purpose
D. Export the traces to Amazon CloudWatch Logs as an audit record of model usag
E. Store all prompts and outputs in Amazon S3 with server-side encryption with AWS KMS keys (SSE-KMS).
F. Define access control by using IAM with attribute-based access control (ABAC) to map departments to specific permission
G. Configure VPC endpoints for Amazon Bedrock model API call
H. Use IAM condition keys to enforce specific GuardrailIdentifier and ModelId value
I. Configure AWS CloudTrail to capture management and data events for S3 objects and KMS key usage activitie
J. Enable S3 server access logging to record detailed file-level interactions with the video archive
K. Send all CloudTrail logs to AWS CloudTrail Lak
L. Set up Amazon CloudWatch alarms to detect and alert on unexpected activity from Amazon Bedrock, Amazon Rekognition, and AWS KMS.
M. Restrict access to services by using VPC endpoint policie
N. Use AWS Config to track resource changes and compliance with security rule
O. Use server-side encryption with AWS KMS keys (SSE-KMS) to encrypt data at res
P. Store the model??s I/O in separate Amazon S3 bucket
Q. Enable S3 server access logging to track file-level interactions.
R. Configure AWS CloudTrail Insights to analyze API call patterns across accounts and detect anomalous activity in Amazon Bedrock, Amazon Rekognition, Amazon S3, and AWS KM
S. Deploy Amazon Macie to scan and classify the video archiv
T. Use server-side encryption with AWS KMS keys (SSE-KMS) to encrypt all stored dat
. Configure CloudTrail to capture KMS API usage events for audit purpose
. Configure Amazon EventBridge rules to process CloudTrail Insights anomalies and Macie finding
. Use CloudWatch alarms to trigger automated notifications and security responses when potential security issues are detected.

**Answer:** B

**NEW QUESTION 10**
A financial services company is developing a customer service AI assistant by using Amazon Bedrock. The AI assistant must not discuss investment advice with users. The AI assistant must block harmful content, mask personally identifiable information (PII), and maintain audit trails for compliance reporting. The AI assistant must apply content filtering to both user inputs and model responses based on content sensitivity.
The company requires an Amazon Bedrock guardrail configuration that will effectively enforce policies with minimal false positives. The solution must provide multiple handling strategies for multiple types of sensitive content.
Which solution will meet these requirements?

A. Configure a single guardrail and set content filters to high for all categorie
B. Set up denied topics for investment advice and include sample phrases to bloc
C. Set up sensitive information filters that apply the block action for all PII entitie
D. Apply the guardrail to all model inference calls.
E. Configure multiple guardrails by using tiered policie
F. Create one guardrail and set content filters to hig
G. Configure the guardrail to block PII for public interaction
H. Configure a second guardrail and set content filters to mediu
I. Configure the second guardrail to mask PII for internal us
J. Configure multiple topic-specific guardrails to block investment advice and set up contextual grounding checks.
K. Configure a guardrail and set content filters to medium for harmful conten
L. Set updenied topics for investment advice and include clear definitions and sample phrases to bloc
M. Configure sensitive information filters to mask PII in responses and to block financial information in input
N. Enable both input and output evaluations that use custom blocked messages for audits.
O. Create a separate guardrail for each use cas
P. Create one guardrail that applies a harmful content filte
Q. Create a guardrail to apply topic filters for investment advic
R. Create a guardrail to apply sensitive information filters to block PI
S. Use AWS Step Functions to chain the guardrails sequentially.

**Answer:** C

**NEW QUESTION 11**
A company uses an organization in AWS Organizations with all features enabled to manage multiple AWS accounts. Employees use Amazon Bedrock across multiple accounts. The company must prevent specific topics and proprietary information from being included in prompts to Amazon Bedrock models. The company must ensure that employees can use only approved Amazon Bedrock models. The company wants to manage these controls centrally.
Which combination of solutions will meet these requirements? (Select TWO.)

A. Create an IAM permissions boundary for each employee's IAM rol
B. Configure the permissions boundary to require an approved Amazon Bedrock guardrail identifier to invoke Amazon Bedrock model
C. Create an SCP that allows employees to use only approved models.
D. Create an SCP that allows employees to use only approved model
E. Configure the SCP to require employees to specify a guardrail identifier in calls to invoke an approved model.
F. Create an SCP that prevents an employee from invoking a model if a centrally deployed guardrail identifier is not specified in a call to the mode
G. Create a permissions boundary on each employee's IAM role that allows each employee to invoke only approved models.
H. Use AWS CloudFormation to create a custom Amazon Bedrock guardrail that has a block filtering polic
I. Use stack sets to deploy the guardrail to each account in the organization.
J. Use AWS CloudFormation to create a custom Amazon Bedrock guardrail that has a mask filtering polic
K. Use stack sets to deploy the guardrail to each account in the organization.

**Answer:** CD

**NEW QUESTION 14**
A company uses AWS Lambda functions to build an AI agent solution. A GenAI developer must set up a Model Context Protocol (MCP) server that accesses user information. The GenAI developer must also configure the AI agent to use the new MCP server. The GenAI developer must ensure that only authorized users can access the MCP server.
Which solution will meet these requirements?

A. Use a Lambda function to host the MCP serve
B. Grant the AI agent Lambda functions permission to invoke the Lambda function that hosts the MCP serve
C. Configure the AI agent??s MCP client to invoke the MCP server asynchronously.
D. Use a Lambda function to host the MCP serve
E. Grant the AI agent Lambda functions permission to invoke the Lambda function that hosts the MCP serve
F. Configure the AI agent to use the STDIO transport with the MCP server.
G. Use a Lambda function to host the MCP serve
H. Create an Amazon API Gateway HTTP API that proxies requests to the Lambda functio
I. Configure the AI agent solution to use the Streamable HTTP transport to make requests through the HTTP AP
J. Use Amazon Cognito to enforce OAuth 2.1.
K. Use a Lambda layer to host the MCP serve
L. Add the Lambda layer to the AI agent Lambda function
M. Configure the agentic AI solution to use the STDIO transport to send requests to the MCP serve
N. In the AI agent??s MCP configuration, specify the Lambda layer ARN as the comman
O. Specify the user credentials as environment variables.

**Answer:** C

**NEW QUESTION 15**
A company is building a generative AI (GenAI) application that processes financial reports and provides summaries for analysts. The application must run two compute environments. In one environment, AWS Lambda functions must use the Python SDK to analyze reports on demand. In the second environment, Amazon EKS containers must use the JavaScript SDK to batch process multiple reports on a schedule. The application must maintain conversational context throughout multi-turn interactions, use the same foundation model (FM) across environments, and ensure consistent authentication.
Which solution will meet these requirements?

A. Use the Amazon Bedrock InvokeModel API with a separate authentication method for each environmen
B. Store conversation states in Amazon DynamoD
C. Use custom I/O formatting logic for each programming language.
D. Use the Amazon Bedrock Converse API directly in both environments with a common authentication mechanism that uses IAM role
E. Store conversation states in Amazon ElastiCach
F. Create programming language-specific wrappers for model parameters.
G. Create a centralized Amazon API Gateway REST API endpoint that handles all model interactions by using the InvokeModel AP
H. Store interaction history in application process memory in each Lambda function or EKS containe
I. Use environment variables to configure model parameters.
J. Use the Amazon Bedrock Converse API and IAM roles for authenticatio
K. Pass previous messages in the request messages array to maintain conversational contex
L. Use programming language-specific SDKs to establish consistent API interfaces.

**Answer:** D

**NEW QUESTION 16**
A company uses AWS Lake Formation to set up a data lake that contains databases and tables for multiple business units across multiple AWS Regions. The company wants to use a foundation model (FM) through Amazon Bedrock to perform fraud detection. The FM must ingest sensitive financial data from the data lake. The data includes some customer personally identifiable information (PII).
The company must design an access control solution that prevents PII from appearing in a production environment. The FM must access only authorized data subsets that have PII redacted from specific data columns. The company must capture audit trails for all data access.
Which solution will meet these requirements?

A. Create a separate dataset in a separate Amazon S3 bucket for each business unit and Region combinatio
B. Configure S3 bucket policies to control access based on IAM roles that are assigned to FM training instance
C. Use S3 access logs to track data access.
D. Configure the FM to authenticate by using AWS Identity and Access Management roles and Lake Formation permissions based on LF-Tag expression
E. Define business units and Regions as LF-Tags that are assigned to databases and table
F. Use AWS CloudTrail to collect comprehensive audit trails of data access.
G. Use direct IAM principal grants on specific databases and tables in Lake Formatio
H. Create a custom application layer that logs access requests and further filters sensitive columns before sending data to the FM.
I. Configure the FM to request temporary credentials from AWS Security Token Servic
J. Access the data by using presigned S3 URLs that are generated by an API that applies business unit and Regional filter
K. Use AWS CloudTrail to collect comprehensive audit trails of data access.

**Answer:** B

**NEW QUESTION 17**
A company is using Amazon Bedrock to develop an AI-powered application that uses a foundation model that supports cross-Region inference and provisioned throughput. The application must serve users in Europe and North America with consistently low latency. The application must comply with data residency regulations that require European user data to remain within Europe-based AWS Regions.
During testing, the application experiences service degradation when Regional traffic spikes reach service quotas. The company needs a solution that maintains application resilience and minimizes operational complexity.
Which solution will meet these requirements?

A. Deploy separate Amazon Bedrock instances in North American and European Region
B. Use a custom routing layer that directs traffic based on user locatio
C. Configure Amazon CloudWatch alarms to monitor Regional service usag
D. Use Amazon SNS to send email alerts to the company when usage approaches specified thresholds.
E. Use Amazon Bedrock cross-Region inference profiles by specifying geographical codes in profile IDs when the application calls the InvokeModel AP
F. Configure separate Amazon API Gateway HTTP APIs to direct European and North American users to the appropriate Regional endpoints.
G. Deploy a multi-Region Amazon API Gateway HTTP API and AWS Lambda functions that implement retry logic to handle throttlin
H. Configure the Lambda functions to call the foundation model in the nearest secondary Region when the application reaches service quotas in the primary Regio
I. Use intelligent routing to ensure compliance with data residency requirements.
J. Configure provisioned throughput for Amazon Bedrock in multiple Region
K. Implement failover logic in the application code to switch between Regions when throttling occur
L. Use AWS Global Accelerator to route traffic to the appropriate endpoints based on user location.

**Answer:** B

**NEW QUESTION 21**
A company is creating a generative AI (GenAI) application that uses Amazon Bedrock foundation models (FMs). The application must use Microsoft Entra ID to authenticate. All FM API calls must stay on private network paths. Access to the application must be limited by department to specific model families. The company also needs a comprehensive audit trail of model interactions.
Which solution will meet these requirements?

A. Configure SAML federation between Microsoft Entra ID and AWS Identity and Access Managemen
B. Create department-specific IAM roles that allow only the required ModelId value
C. Create AWS PrivateLink interface VPC endpoints for Amazon Bedrock runtime service
D. Enable AWS CloudTrail to capture Amazon Bedrock API call
E. Configure Amazon Bedrock model invocation logging to record detailed model interactions.
F. Create an identity provider (IdP) connection in IAM to authenticate by using Microsoft Entra I
G. Assign department permission sets to control access to specific model familie
H. Deploy AWS Lambda functions in private subnets with a NAT gateway for egress to Amazon Bedrock public endpoint
I. Enable CloudWatch Logs to capture model interactions for auditing purposes.
J. Create a SAML identity provider (IdP) in IAM to authenticate by using Microsoft Entra I
K. Use IAM permissions boundaries to limit department roles' access to specific model familie
L. Configure public Amazon Bedrock API endpoints with VPC routing to maintain private network connectivit
M. Set up CloudTrail with Amazon S3 Lifecycle rules to manage audit logs of model interactions.
N. Configure OpenID Connect (OIDC) federation between Microsoft Entra ID and IA

O. Use attribute-based access control to map department attributes to specific model access permission
P. Apply SCP policies to restrict access to Amazon Bedrock FM families based on departmen
Q. Use Microsoft Entra ID's built-in logging capabilities to maintain an audit trail of model interactions.

**Answer:** A

**NEW QUESTION 26**
A financial services company is developing a Retrieval Augmented Generation (RAG) application to help investment analysts query complex financial relationships across multiple investment vehicles, market sectors, and regulatory environments. The dataset contains highly interconnected entities that have multi-hop relationships. Analysts must examine relationships holistically to provide accurate investment guidance. The application must deliver comprehensive answers that capture indirect relationships between financial entities and must respond in less than 3 seconds.
Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon Bedrock Knowledge Bases with GraphRAG and Amazon Neptune Analytics to store financial dat
B. Analyze multi-hop relationships between entities and automatically identify related information across documents.
C. Use Amazon Bedrock Knowledge Bases and an Amazon OpenSearch Service vector store to implement custom relationship identification logic that uses AWS Lambda to query multiple vector embeddings in sequence.
D. Use Amazon OpenSearch Serverless vector search with k-nearest neighbor (k-NN). Implement manual relationship mapping in an application layer that runs on Amazon EC2 Auto Scaling.
E. Use Amazon DynamoDB to store financial data in a custom indexing syste
F. Use AWS Lambda to query relevant record
G. Use Amazon SageMaker to generate responses.

**Answer:** A

**NEW QUESTION 31**
A bank is building a generative AI (GenAI) application that uses Amazon Bedrock to assess loan applications by using scanned financial documents. The application must extract structured data from the documents. The application must redact personally identifiable information (PII) before inference. The application must use foundation models (FMs) to generate approvals. The application must route low-confidence document extraction results to human reviewers who are within the same AWS Region as the loan applicant.
The company must ensure that the application complies with strict Regional data residency and auditability requirements. The application must be able to scale to handle 25,000 applications each day and provide 99.9% availability.
Which combination of solutions will meet these requirements? (Select THREE.)

A. Deploy Amazon Textract and Amazon Augmented AI within the same Region to extract relevant data from the scanned document
B. Route low-confidence pages to human reviewers.
C. Use AWS Lambda functions to detect and redact PII from submitted documents before inferenc
D. Apply Amazon Bedrock guardrails to prevent inappropriate or unauthorized content in model output
E. Configure Region-specific IAM roles to enforce data residency requirements and to control access to the extracted data.
F. Use Amazon Kendra and Amazon OpenSearch Service to extract field-level values semantically from the uploaded documents before inference.
G. Store uploaded documents in Amazon S3 and apply object metadat
H. Configure IAM policies to store original documents within the same Region as each applican
I. Enable object tagging for future audits.
J. Use AWS Glue Data Quality to validate the structured document dat
K. Use AWS Step Functions to orchestrate a review workflow that includes a prompt engineering step that transforms validated data into optimized prompts before invoking Amazon Bedrock to assess loan applications.
L. Use Amazon SageMaker Clarify to generate fairness and bias reports based on model scoring decisions that Amazon Bedrock makes.

**Answer:** ABD

**NEW QUESTION 34**
An enterprise application uses an Amazon Bedrock foundation model (FM) to process and analyze 50 to 200 pages of technical documents. Users are experiencing inconsistent responses and receiving truncated outputs when processing documents that exceed the FM's context window limits.
Which solution will resolve this problem?

A. Configure fixed-size chunking at 4,000 tokens for each chunk with 20% overla
B. Use application-level logic to link multiple chunks sequentially until the FM's maximum context window of 200,000 tokens is reached before making inference calls.
C. Use hierarchical chunking with parent chunks of 8,000 tokens and child chunks of 2,000 token
D. Use Amazon Bedrock Knowledge Bases built-in retrieval to automatically select relevant parent chunks based on query contex
E. Configure overlap tokens to maintain semantic continuity.
F. Use semantic chunking with a breakpoint percentile threshold of 95% and a buffer size of 3 sentence
G. Use the RetrieveAndGenerate API to dynamically select the most relevant chunks based on embedding similarity scores.
H. Create a pre-processing AWS Lambda function that analyzes document token count by using the FM's tokenize
I. Configure the Lambda function to split documents into equal segments that fit within 80% of the context windo
J. Configure the Lambda function to process each segment independently before aggregating the results.

**Answer:** C

**NEW QUESTION 38**
A company is using AWS Lambda and REST APIs to build a reasoning agent to automate support workflows. The system must preserve memory across interactions, share relevant agent state, and support event-driven invocation and synchronous invocation. The system must also enforce access control and session-based permissions.
Which combination of steps provides the MOST scalable solution? (Select TWO.)

A. Use Amazon Bedrock AgentCore to manage memory and session-aware reasonin
B. Deploy the agent with built-in identity support, event handling, and observability.
C. Register the Lambda functions and REST APIs as actions by using Amazon API Gateway and Amazon EventBridg
D. Enable Amazon Bedrock AgentCore to invoke the Lambda functions and REST APIs without custom orchestration code.

E. Use Amazon Bedrock Agents for reasoning and conversation managemen
F. Use AWS Step Functions and Amazon SQS for orchestratio
G. Store agent state in Amazon DynamoDB.
H. Deploy the reasoning logic as a container on Amazon ECS behind API Gatewa
I. Use Amazon Aurora to store memory and identity data.
J. Build a custom RAG pipeline by using Amazon Kendra and Amazon Bedroc
K. Use AWS Lambda to orchestrate tool invocation
L. Store agent state in Amazon S3.

**Answer:** AB

**NEW QUESTION 39**
A medical company uses Amazon Bedrock to power a clinical documentation summarization system. The system produces inconsistent summaries when handling complex clinical documents. The system performed well on simple clinical documents.
The company needs a solution that diagnoses inconsistencies, compares prompt performance against established metrics, and maintains historical records of prompt versions.
Which solution will meet these requirements?

A. Create multiple prompt variants by using Prompt management in Amazon Bedroc
B. Manually test the prompts with simple clinical document
C. Deploy the highest performing version by using the Amazon Bedrock console.
D. Implement version control for prompts in a code repository with a test suite that contains complex clinical documents and quantifiable evaluation metric
E. Use an automated testing framework to compare prompt versions and document performance patterns.
F. Deploy each new prompt version to separate Amazon Bedrock API endpoint
G. Split production traffic between the endpoint
H. Configure Amazon CloudWatch to capture response metrics and user feedback for automatic version selection.
I. Create a custom prompt evaluation flow in Amazon Bedrock Flows that applies the same clinical document inputs to different prompt variant
J. Use Amazon Comprehend Medical to analyze and score the factual accuracy of each version.

**Answer:** B

**NEW QUESTION 43**
An elevator service company has developed an AI assistant application by using Amazon Bedrock. The application generates elevator maintenance recommendations to support the company??s elevator technicians. The company uses Amazon Kinesis Data Streams to collect the elevator sensor data.
New regulatory rules require that a human technician must review all AI-generated recommendations. The company needs to establish human oversight workflows to review and approve AI recommendations. The company must store all human technician review decisions for audit purposes.
Which solution will meet these requirements?

A. Create a custom approval workflow by using AWS Lambda functions and Amazon SQS queues for human review of AI recommendation
B. Store all review decisions in Amazon DynamoDB for audit purposes.
C. Create an AWS Step Functions workflow that has a human approval step that uses the waitForTaskToken API to pause executio
D. After a human technician completes a review, use an AWS Lambda function to call the SendTaskSuccess API with the approval decisio
E. Store all review decisions in Amazon DynamoDB.
F. Create an AWS Glue workflow that has a human approval ste
G. After the human technician review, integrate the application with an AWS Lambda function that calls the SendTaskSuccess AP
H. Store all human technician review decisions in Amazon DynamoDB.
I. Configure Amazon EventBridge rules with custom event patterns to route AI recommendations to human technicians for revie
J. Create AWS Glue jobs to process human technician approval queue
K. Use Amazon ElastiCache to cache all human technician review decisions.

**Answer:** B

**NEW QUESTION 44**
A company provides a service that helps users from around the world discover new restaurants. The service has 50 million monthly active users. The company wants to implement a semantic search solution across a database that contains 20 million restaurants and 200 million reviews. The company currently stores the data in a PostgreSQL database.
The solution must support complex natural language queries and return results for at least 95% of queries within 500 ms. The solution must maintain data freshness for restaurant details that update hourly. The solution must also scale cost-effectively during peak usage periods.
Which solution will meet these requirements with the LEAST development effort?

A. Migrate the restaurant data to Amazon OpenSearch Servic
B. Implement keyword-based search rules that use custom analyzers and relevance tuning to find restaurants based on attributes such as cuisine type, feature, and locatio
C. Create Amazon API Gateway HTTP API endpoints to transform user queries into structured search parameters.
D. Migrate the restaurant data to Amazon OpenSearch Servic
E. Use a foundation model (FM) in Amazon Bedrock to generate vector embeddings from restaurant descriptions, reviews, and menu item
F. When users submit natural language queries, convert the queries to embeddings by using the same F
G. Perform k-nearest neighbors (k-NN) searches to find semantically similar results.
H. Keep the restaurant data in PostgreSQL and implement a pgvector extensio
I. Use a foundation model (FM) in Amazon Bedrock to generate vector embeddings from restaurant dat
J. Store the vector embeddings directly in PostgreSQ
K. Create an AWS Lambda function to convert natural language queries to vector representations by using the same F
L. Configure the Lambda function to perform similarity searches within the database.
M. Migrate the restaurant data to an Amazon Bedrock knowledge base by using a custom ingestion pipelin
N. Configure the knowledge base to automatically generate embeddings from restaurant informatio
O. Use the Amazon Bedrock Retrieve API with built-in vector search capabilities to query the knowledge base directly by using natural language input.

**Answer:** D

**NEW QUESTION 46**
A company is developing a customer support application that uses Amazon Bedrock foundation models (FMs) to provide real-time AI assistance to the company??s employees. The application must display AI-generated responses character by character as the responses are generated. The application needs to support thousands of concurrent users with minimal latency. The responses typically take 15 to 45 seconds to finish.
Which solution will meet these requirements?

A. Configure an Amazon API Gateway WebSocket API with an AWS Lambda integratio
B. Configure the WebSocket API to invoke the Amazon Bedrock InvokeModelWithResponseStream API and stream partial responses through WebSocket connections.
C. Configure an Amazon API Gateway REST API with an AWS Lambda integratio
D. Configure the REST API to invoke the Amazon Bedrock standard InvokeModel API and implement frontend client-side polling every 100 ms for complete response chunks.
E. Implement direct frontend client connections to Amazon Bedrock by using IAM user credentials and the InvokeModelWithResponseStream API without any intermediate gateway or proxy layer.
F. Configure an Amazon API Gateway HTTP API with an AWS Lambda integratio
G. Configure the HTTP API to cache complete responses in an Amazon DynamoDB table and serve the responses through multiple paginated GET requests to frontend clients.

**Answer:** A

**NEW QUESTION 48**
A financial services company is developing a customer service AI assistant application that uses a foundation model (FM) in Amazon Bedrock. The application must provide transparent responses by documenting reasoning and by citing sources that are used for Retrieval Augmented Generation (RAG). The application must capture comprehensive audit trails for all responses to users. The application must be able to serve up to 10,000 concurrent users and must respond to each customer inquiry within 2 seconds.
Which solution will meet these requirements with the LEAST operational overhead?

A. Enable tracing for Amazon Bedrock Agent
B. Configure structured prompts that direct the FM to provide evidence presentation
C. Integrate Amazon Bedrock Knowledge Bases with data sources to enable RA
D. Configure the application to reference and cite authoritative conten
E. Deploy the application in a Multi-AZ architectur
F. Use Amazon API Gateway and AWS Lambda functions to scale the applicatio
G. Use Amazon CloudFront to provide low- latency delivery.
H. Enable tracing for Amazon Bedrock agent
I. Integrate a custom RAG pipeline with Amazon OpenSearch Service to retrieve and cite source
J. Configure structured prompts to present retrieved evidenc
K. Deploy the application behind an Amazon API Gateway REST AP
L. Use AWS Lambda functions and Amazon CloudFront to scale the application and to provide low latenc
M. Store logs in Amazon S3 and use AWS CloudTrail to capture audit trails.
N. Use Amazon CloudWatch to monitor latency and error rate
O. Embed model prompts directly in the application backend to cite source
P. Store application interactions with users in Amazon RDS for audits.
Q. Store generated responses and supporting evidence in an Amazon S3 bucke
R. Enable versioning on the bucket for audit
S. Use AWS Glue to catalog retrieved document
T. Process the retrieved documents in Amazon Athena to generate periodic compliance reports.

**Answer:** A

**NEW QUESTION 50**
A GenAI developer is evaluating Amazon Bedrock foundation models (FMs) to enhance a Europe-based company's internal business application. The company has a multi-account landing zone in AWS Control Tower. The company uses Service Control Policies (SCPs) to allow its accounts to use only the eu-north-1 and eu-west-1 Regions. All customer data must remain in private networks within the approved AWS Regions.
The GenAI developer selects an FM based on analysis and testing and hosts the model in the eu-central-1 Region and the eu-west-3 Region. The GenAI developer must enable access to the FM for the company's employees. The GenAI developer must ensure that requests to the FM are private and remain within the same Regions as the FM.
Which solution will meet these requirements?

A. Deploy an AWS Lambda function that is exposed by a private Amazon API Gateway REST API to a VPC in eu-north-1. Create a VPC endpoint for the selected FM in eu- central-1 and eu-west-3. Extend existing SCPs to allow employees to use the F
B. Integrate the REST API with the business application.
C. Deploy the FM on Amazon EC2 instances in eu-north-1. Deploy a private Amazon API Gateway REST API in front of the EC2 instance
D. Configure an Amazon Bedrock VPC endpoin
E. Integrate the REST API with the business application.
F. Configure the FM to use cross-Region inference through a Europe-scoped endpoin
G. Configure an Amazon Bedrock VPC endpoin
H. Extend existing SCPs to allow employees to use the FM through inference profiles in Europe-based Regions where the FM is availabl
I. Use an inference profile to integrate Amazon Bedrock with the business application.
J. Deploy the FM in Amazon SageMaker in eu-north-1. Configure a SageMaker VPC endpoin
K. Extend existing SCPs to allow employees to use the SageMaker endpoin
L. Integrate the FM in SageMaker with the business application.

**Answer:** C

**NEW QUESTION 52**
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