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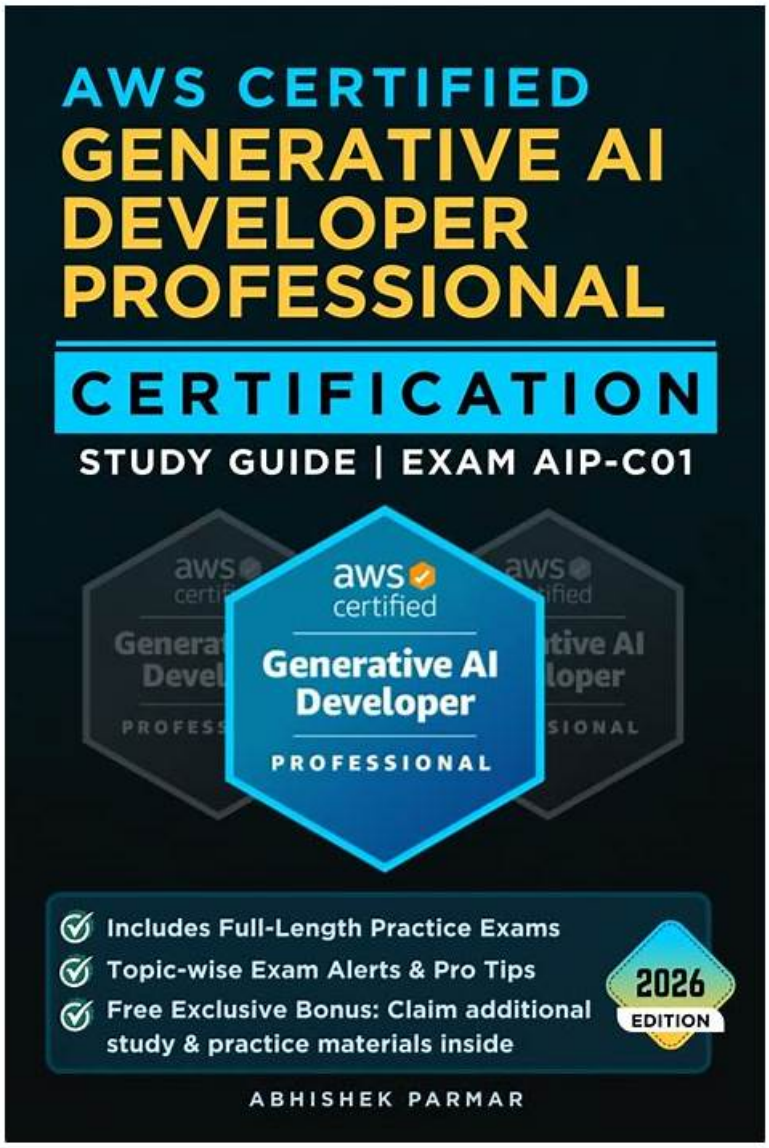

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Our product is revised and updated according to the change of the syllabus and the latest development situation in the theory and the practice. The AIF-C01 Exam Torrent is compiled elaborately by the experienced professionals and of high quality. The contents of AIF-C01 guide questions are easy to master and simplify the important information. It conveys more important information with less answers and questions, thus the learning is easy and efficient. The language is easy to be understood makes any learners have no obstacles.

Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.
Topic 2	• Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.
Topic 3	• Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.
Topic 4	• Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.
Topic 5	• Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.

Amazon AWS Certified AI Practitioner Sample Questions (Q150-Q155):

NEW QUESTION # 150
An ecommerce company is deploying a chatbot. The chatbot will give users the ability to ask questions about the company's products and receive details on users' orders. The company must implement safeguards for the chatbot to filter harmful content from the input prompts and chatbot responses.
Which AWS feature or resource meets these requirements?

- A. Amazon Bedrock Agents
- B. Amazon Bedrock custom models
- C. Amazon Bedrock Guardrails
- D. Amazon Bedrock inference APIs

Answer: C

Explanation:
The ecommerce company is deploying a chatbot that needs safeguards to filter harmful content from input prompts and responses. Amazon Bedrock Guardrails provide mechanisms to ensure responsible AI usage by filtering harmful content, such as hate speech, violence, or misinformation, making it the appropriate feature for this requirement.
Exact Extract from AWS AI Documents:
From the AWS Bedrock User Guide:
"Amazon Bedrock Guardrails enable developers to implement safeguards for generative AI applications, such as chatbots, by filtering harmful content in input prompts and model responses. Guardrails include content filters, word filters, and denied topics to ensure safe and responsible outputs." (Source: AWS Bedrock User Guide, Guardrails for Responsible AI) Detailed Option A: Amazon Bedrock GuardrailsThis is the correct answer. Amazon Bedrock Guardrails are specifically designed to filter harmful content from chatbot inputs and responses, ensuring safe interactions for users.

Option B: Amazon Bedrock AgentsAmazon Bedrock Agents are used to automate tasks and integrate with external tools, not to filter harmful content. This option does not meet the requirement.
Option C: Amazon Bedrock inference APIsAmazon Bedrock inference APIs allow users to invoke foundation models for generating responses, but they do not provide built-in content filtering mechanisms.
Option D: Amazon Bedrock custom modelsCustom models on Amazon Bedrock allow users to fine-tune models, but they do not inherently include safeguards for filtering harmful content unless explicitly implemented.
Reference:
AWS Bedrock User Guide: Guardrails for Responsible AI (https://docs.aws.amazon.com/bedrock/latest/userguide/guardrails.html)
AWS AI Practitioner Learning Path: Module on Responsible AI and Model Safety Amazon Bedrock Developer Guide: Building Safe AI Applications (https://aws.amazon.com/bedrock/)

NEW QUESTION # 151
A company is building a custom AI solution in Amazon SageMaker Studio to analyze financial transactions for fraudulent activity in real time. The company needs to ensure that the connectivity from SageMaker Studio to Amazon Bedrock traverses the company's VPC.
Which solution meets these requirements?

- A. Configure a new VPC for the Amazon Bedrock usage. Register the VPCs as peers.
- B. Configure AWS PrivateLink endpoints for the Amazon Bedrock API endpoints in the VPC that SageMaker Studio is connected to.
- C. Configure AWS Identity and Access Management (IAM) roles and policies for SageMaker Studio to access Amazon Bedrock.
- D. Configure Amazon Macie to proxy requests from SageMaker Studio to Amazon Bedrock.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact AWS AI documents:
AWS PrivateLink enables private connectivity between AWS services through VPC endpoints, ensuring traffic does not traverse the public internet.
AWS guidance recommends PrivateLink for:
* Secure, private service access
* Regulatory and compliance requirements
* VPC-based architecture
Why the other options are incorrect:
* IAM (A) controls access, not network routing.
* Macie (B) is a data security service.
* VPC peering (D) is not required for Bedrock access.
AWS AI document references:
* Amazon Bedrock Networking and Security
* Private Connectivity with AWS PrivateLink
* Secure AI Architectures on AWS

NEW QUESTION # 152
A publishing company built a Retrieval Augmented Generation (RAG) based solution to give its users the ability to interact with published content. New content is published daily. The company wants to provide a near real-time experience to users.
Which steps in the RAG pipeline should the company implement by using offline batch processing to meet these requirements? (Select TWO.)

- A. Response generation for the user
- B. Generation of embeddings for user queries
- C. Generation of content embeddings
- D. Retrieval of relevant content
- E. Creation of the search index

Answer: C,E

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:

In a RAG (Retrieval Augmented Generation) architecture, there are steps that can be optimized using offline batch processing, particularly for operations that do not require real-time updates:
* A. Generation of content embeddings:When new content is published, it can be processed in batches to generate embeddings (vector representations) offline. These embeddings are then used at query time for similarity search. As new documents come in daily, batch processing is ideal for generating embeddings for all new content together.
"Content/document embeddings are typically generated offline, as this operation can be computationally expensive and does not need to happen in real-time." (Reference: AWS GenAI RAG Blog, Amazon Bedrock RAG Pattern)
* C. Creation of the search index:After generating the content embeddings, these are indexed in a vector database or search service. This indexing is also typically performed in batch as part of the offline pipeline.
"Building or updating the vector index is often performed as a batch operation, reflecting the latest state of the content repository." (Reference: AWS RAG Pattern Whitepaper) B, D, and E are real-time steps. Embeddings for user queries (B), retrieval of relevant content (D), and response generation (E) must be processed in real-time to provide an interactive experience.
References:
Retrieval Augmented Generation (RAG) on AWS
Amazon Bedrock RAG Documentation

NEW QUESTION # 153
A company wants to develop a large language model (LLM) application by using Amazon Bedrock and customer data that is uploaded to Amazon S3. The company's security policy states that each team can access data for only the team's own customers.
Which solution will meet these requirements?

- A. Create one Amazon Bedrock role that has full Amazon S3 access. Create IAM roles for each team that have access to only each team's customer folders.
- B. Create a custom service role that has Amazon S3 access. Ask teams to specify the customer name on each Amazon Bedrock request.
- C. Create an Amazon Bedrock custom service role for each team that has access to only the team's customer data.
- D. Redact personal data in Amazon S3. Update the S3 bucket policy to allow team access to customer data.

Answer: C

Explanation:
To comply with the company's security policy, which restricts each team to access data for only their own customers, creating an Amazon Bedrock custom service role for each team is the correct solution.
* Custom Service Role Per Team:
* A custom service role for each team ensures that the access control is granular, allowing only specific teams to access their own customer data in Amazon S3.
* This setup aligns with the principle of least privilege, ensuring teams can only interact with data they are authorized to access.
* Why Option A is Correct:
* Access Control: Allows precise access permissions for each team's data.
* Security Compliance: Directly meets the company's security policy requirements by ensuring data segregation.
* Why Other Options are Incorrect:
* B. Custom service role with customer name specification: This approach is impractical as it relies on manual input, which is prone to errors and does not inherently enforce data access controls.
* C. Redacting personal data and updating S3 bucket policy: Redaction does not solve the requirement for team-specific access, and updating bucket policies is less granular than creating roles.
* D. One Bedrock role with full S3 access and IAM roles for teams: This setup does not meet the least privilege principle, as having a single role with full access is contrary to the company's security policy.
Thus, A is the correct answer to meet the company's security requirements.

NEW QUESTION # 154
A company has a foundation model (FM) that was customized by using Amazon Bedrock to answer customer queries about products. The company wants to validate the model's responses to new types of queries. The company needs to upload a new dataset that Amazon Bedrock can use for validation.
Which AWS service meets these requirements?

- A. Amazon S3
- B. AWS Showcone
- C. Amazon Elastic Block Store (Amazon EBS)

- D. Amazon Elastic File System (Amazon EFS)

Answer: A

Explanation:
Amazon S3 is the optimal choice for storing and uploading datasets used for machine learning model validation and training. It offers scalable, durable, and secure storage, making it ideal for holding datasets required by Amazon Bedrock for validation purposes.
Option A (Correct): "Amazon S3": This is the correct answer because Amazon S3 is widely used for storing large datasets that are accessed by machine learning models, including those in Amazon Bedrock.
Option B: "Amazon Elastic Block Store (Amazon EBS)" is incorrect because EBS is a block storage service for use with Amazon EC2, not for directly storing datasets for Amazon Bedrock.
Option C: "Amazon Elastic File System (Amazon EFS)" is incorrect as it is primarily used for file storage with shared access by multiple instances.
Option D: "AWS Snowcone" is incorrect because it is a physical device for offline data transfer, not suitable for directly providing data to Amazon Bedrock.
AWS AI Practitioner References:
Storing and Managing Datasets on AWS for Machine Learning: AWS recommends using S3 for storing and managing datasets required for ML model training and validation.

NEW QUESTION # 155
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