

# Amazon AIF-C01 passing score, AIF-C01 exam review



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## Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• 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.</li></ul>

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### Amazon AWS Certified AI Practitioner Sample Questions (Q269-Q274):

#### NEW QUESTION # 269

A financial institution is using Amazon Bedrock to develop an AI application. The application is hosted in a VPC. To meet regulatory compliance standards, the VPC is not allowed access to any internet traffic.

Which AWS service or feature will meet these requirements?

- A. Internet gateway
- **B. AWS PrivateLink**
- C. Amazon Macie
- D. Amazon CloudFront

**Answer: B**

Explanation:

AWS PrivateLink enables private connectivity between VPCs and AWS services without exposing traffic to the public internet. This feature is critical for meeting regulatory compliance standards that require isolation from public internet traffic.

Option A (Correct): "AWS PrivateLink": This is the correct answer because it allows secure access to Amazon Bedrock and other AWS services from a VPC without internet access, ensuring compliance with regulatory standards.

Option B: "Amazon Macie" is incorrect because it is a security service for data classification and protection, not for managing private network traffic.

Option C: "Amazon CloudFront" is incorrect because it is a content delivery network service and does not provide private network connectivity.

Option D: "Internet gateway" is incorrect as it enables internet access, which violates the VPC's no-internet-traffic policy.

AWS AI Practitioner Reference:

AWS PrivateLink Documentation: AWS highlights PrivateLink as a solution for connecting VPCs to AWS services privately, which is essential for organizations with strict regulatory requirements.

#### NEW QUESTION # 270

A company wants to extract key insights from large policy documents to increase employee efficiency.

- **A. Summarization**
- B. Classification
- C. Clustering
- D. Regression

**Answer: A**

Explanation:

Comprehensive and Detailed

Summarization is a natural language processing (NLP) task that condenses long documents into concise, meaningful summaries while retaining the key information.

Regression predicts numerical values.

Clustering groups similar items.

Classification assigns data into predefined categories.

Reference:

AWS NLP Use Cases - Summarization

### NEW QUESTION # 271

A company is using Amazon SageMaker Studio notebooks to build and train ML models. The company stores the data in an Amazon S3 bucket. The company needs to manage the flow of data from Amazon S3 to SageMaker Studio notebooks. Which solution will meet this requirement?

- A. Configure SageMaker to use S3 Glacier Deep Archive.
- B. Use Amazon Inspector to monitor SageMaker Studio.
- **C. Configure SageMaker to use a VPC with an S3 endpoint.**
- D. Use Amazon Macie to monitor SageMaker Studio.

**Answer: C**

Explanation:

To manage the flow of data from Amazon S3 to SageMaker Studio notebooks securely, using a VPC with an S3 endpoint is the best solution.

\* Amazon SageMaker and S3 Integration:

\* Configuring SageMaker to use a Virtual Private Cloud (VPC) with an S3 endpoint allows the data flow between Amazon S3 and SageMaker Studio notebooks to occur over a private network.

\* This setup ensures that traffic between SageMaker and S3 does not traverse the public internet, enhancing security and performance.

\* Why Option C is Correct:

\* Secure Data Transfer: Ensures secure, private connectivity between SageMaker and S3, reducing exposure to potential security risks.

\* Direct Access to S3: Using an S3 endpoint in a VPC allows direct access to data in S3 without leaving the AWS network.

\* Why Other Options are Incorrect:

\* A. Amazon Inspector: Focuses on identifying security vulnerabilities, not managing data flow.

\* B. Amazon Macie: Monitors for sensitive data but does not manage data flow between S3 and SageMaker.

\* D. S3 Glacier Deep Archive: Is a storage class for archiving data, not for managing active data flow.

### NEW QUESTION # 272

A bank is fine-tuning a large language model (LLM) on Amazon Bedrock to assist customers with questions about their loans. The bank wants to ensure that the model does not reveal any private customer data.

Which solution meets these requirements?

- A. Use Amazon Bedrock Guardrails.
- B. Increase the Top-K parameter of the LLM.
- C. Store customer data in Amazon S3. Encrypt the data before fine-tuning the LLM.
- **D. Remove personally identifiable information (PII) from the customer data before fine-tuning the LLM.**

**Answer: D**

Explanation:

The goal is to prevent a fine-tuned large language model (LLM) on Amazon Bedrock from revealing private customer data. Let's analyze the options:

\* A. Amazon Bedrock Guardrails: Guardrails in Amazon Bedrock allow users to define policies to filter harmful or sensitive content in model inputs and outputs. While useful for real-time content moderation, they do not address the risk of private data being embedded in the model during fine-tuning, as the model could still memorize sensitive information.

\* B. Remove personally identifiable information (PII) from the customer data before fine-tuning the LLM: Removing PII (e.g., names, addresses, account numbers) from the training dataset ensures that the model does not learn or memorize sensitive customer data, reducing the risk of data leakage.

This is a proactive and effective approach to data privacy during model training.

\* C. Increase the Top-K parameter of the LLM: The Top-K parameter controls the randomness of the model's output by limiting the number of tokens considered during generation. Adjusting this parameter affects output diversity but does not address the privacy of customer data embedded in the model.

\* D. Store customer data in Amazon S3. Encrypt the data before fine-tuning the LLM: Encrypting data in Amazon S3 protects data at rest and in transit, but during fine-tuning, the data is decrypted and used to train the model. If PII is present, the model could still learn and potentially expose it, so encryption alone does not solve the problem.

Exact Extract Reference: AWS emphasizes data privacy in AI/ML workflows, stating, "To protect sensitive data, you can preprocess datasets to remove personally identifiable information (PII) before using them for model training. This reduces the risk of models inadvertently learning or exposing sensitive information." (Source: AWS Best Practices for Responsible AI,

<https://aws.amazon.com/machine-learning/responsible-ai/>).

Additionally, the Amazon Bedrock documentation notes that users are responsible for ensuring compliance with data privacy regulations during fine-tuning (<https://docs.aws.amazon.com/bedrock/latest/userguide/model-customization.html>).

Removing PII before fine-tuning is the most direct and effective way to prevent the model from revealing private customer data, making B the correct answer.

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AWS Bedrock Documentation: Model Customization (<https://docs.aws.amazon.com/bedrock/latest/userguide/model-customization.html>)

AWS Responsible AI Best Practices (<https://aws.amazon.com/machine-learning/responsible-ai/>) AWS AI Practitioner Study Guide (emphasis on data privacy in LLM fine-tuning)

### NEW QUESTION # 273

An AI practitioner is writing software code. The AI practitioner wants to quickly develop a test case and create documentation for the code.

- A. Research and write test cases. Then, create test cases and add documentation.
- B. Develop an application to use foundation models (FMs).
- C. Upload the code to an online coding assistant.
- **D. Use Amazon Q Developer in an integrated development environment (IDE).**

**Answer: D**

Explanation:

\* Amazon Q Developer is an AI-powered coding assistant integrated into IDEs (e.g., VS Code, JetBrains). It can:

\* Generate unit tests.

\* Create documentation.

\* Suggest code completions.

\* This is the fastest and most effective solution for this scenario.

# Reference:

Amazon Q Developer - AWS Documentation

### NEW QUESTION # 274

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