# AIF-C01^Q&As

Amazon AWS Certified AI Practitioner

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**QUESTION 1**

A company is implementing the Amazon Titan foundation model (FM) by using Amazon Bedrock. The company needs to supplement the model by using relevant data from the company\\'s private data sources.

Which solution will meet this requirement?

A. Use a different FM

B. Choose a lower temperature value

C. Create an Amazon Bedrock knowledge base

D. Enable model invocation logging

Correct Answer: C

Creating an Amazon Bedrock knowledge base allows the integration of external or private data sources with a foundation model (FM) like Amazon Titan. This integration helps supplement the model with relevant data from the company\\'s

private data sources to enhance its responses.

Option C (Correct): "Create an Amazon Bedrock knowledge base":This is the correct answer as it enables the company to incorporate private data into the FM to improve its effectiveness.

Option A:"Use a different FM" is incorrect because it does not address the need to supplement the current model with private data.

Option B:"Choose a lower temperature value" is incorrect as it affects output randomness, not the integration of private data. Option D:"Enable model invocation logging" is incorrect because logging does not help in supplementing the model

with additional data.

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References:

Amazon Bedrock and Knowledge Integration:AWS explains how creating a knowledge base allows Amazon Bedrock to use external data sources to improve the FM\\'s relevance and accuracy.

**QUESTION 2**

A company wants to build an interactive application for children that generates new stories based on classic stories. The company wants to use Amazon Bedrock and needs to ensure that the results and topics are appropriate for children.

Which AWS service or feature will meet these requirements?

A. Amazon Rekognition

B. Amazon Bedrock playgrounds

C. Guardrails for Amazon Bedrock

D. Agents for Amazon Bedrock

Correct Answer: C

Amazon Bedrock is a service that provides foundational models for building generative AI applications. When creating an application for children, it is crucial to ensure that the generated content is appropriate for the target audience.

"Guardrails" in Amazon Bedrock provide mechanisms to control the outputs and topics of generated content to align with desired safety standards and appropriateness levels. Option C (Correct): "Guardrails for Amazon Bedrock":This is the

correct answer because guardrails are specifically designed to help users enforce content moderation, filtering, and safety checks on the outputs generated by models in Amazon Bedrock. For a children\\'s application, guardrails ensure that all

content generated is suitable and appropriate for the intended audience. Option A:"Amazon Rekognition" is incorrect. Amazon Rekognition is an image and video analysis service that can detect inappropriate content in images or videos, but it

does not handle text or story generation. Option B:"Amazon Bedrock playgrounds" is incorrect because playgrounds are environments for experimenting and testing model outputs, but they do not inherently provide safeguards to ensure

content appropriateness for specific audiences, such as children.

Option D:"Agents for Amazon Bedrock" is incorrect. Agents in Amazon Bedrock facilitate building AI applications with more interactive capabilities, but they do not provide specific guardrails for ensuring content appropriateness for children.

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Guardrails in Amazon Bedrock:Designed to help implement controls that ensure generated content is safe and suitable for specific use cases or audiences, such as children, by moderating and filtering inappropriate or undesired content.

Building Safe AI Applications:AWS provides guidance on implementing ethical AI practices, including using guardrails to protect against generating inappropriate or biased content.

**QUESTION 3**

A large retailer receives thousands of customer support inquiries about products every day. The customer support inquiries need to be processed and responded to quickly. The company wants to implement Agents for Amazon Bedrock.

What are the key benefits of using Amazon Bedrock agents that could help this retailer?

A. Generation of custom foundation models (FMs) to predict customer needs

B. Automation of repetitive tasks and orchestration of complex workflows

C. Automatically calling multiple foundation models (FMs) and consolidating the results

D. Selecting the foundation model (FM) based on predefined criteria and metrics

Correct Answer: B

Amazon Bedrock Agents provide the capability to automate repetitive tasks and orchestrate complex workflows using generative AI models. This is particularly beneficial for customer support inquiries, where quick and efficient processing is

crucial. Option B (Correct): "Automation of repetitive tasks and orchestration of complex workflows":This is the correct answer because Bedrock Agents can automate common customer service tasks and streamline complex processes,

improving response times and efficiency.

Option A:"Generation of custom foundation models (FMs) to predict customer needs" is incorrect as Bedrock agents do not create custom models. Option C:"Automatically calling multiple foundation models (FMs) and consolidating the

results" is incorrect because Bedrock agents focus on task automation rather than combining model outputs.

Option D:"Selecting the foundation model (FM) based on predefined criteria and metrics" is incorrect as Bedrock agents are not designed for selecting models.

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References:

Amazon Bedrock Documentation:AWS explains that Bedrock Agents automate tasks and manage complex workflows, making them ideal for customer support automation.

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**QUESTION 4**

A company wants to create a chatbot by using a foundation model (FM) on Amazon Bedrock. The FM needs to access encrypted data that is stored in an Amazon S3 bucket.

The data is encrypted with Amazon S3 managed keys (SSE-S3).

The FM encounters a failure when attempting to access the S3 bucket data.

Which solution will meet these requirements?

A. Ensure that the role that Amazon Bedrock assumes has permission to decrypt data with the correct encryption key.

B. Set the access permissions for the S3 buckets to allow public access to enable access over the internet.

C. Use prompt engineering techniques to tell the model to look for information in Amazon S3.

D. Ensure that the S3 data does not contain sensitive information.

Correct Answer: A

Amazon Bedrock needs the appropriate IAM role with permission to access and decrypt data stored in Amazon S3. If the data is encrypted with Amazon S3 managed keys (SSE- S3), the role that Amazon Bedrock assumes must have the

required permissions to access and decrypt the encrypted data.

Option A (Correct): "Ensure that the role that Amazon Bedrock assumes has permission to decrypt data with the correct encryption key":This is the correct solution as it ensures that the AI model can access the encrypted data securely

without changing the encryption settings or compromising data security. Option B:"Set the access permissions for the

S3 buckets to allow public access" is incorrect because it violates security best practices by exposing sensitive data to the

public.

Option C:"Use prompt engineering techniques to tell the model to look for information in Amazon S3" is incorrect as it does not address the encryption and permission issue.

Option D:"Ensure that the S3 data does not contain sensitive information" is incorrect because it does not solve the access problem related to encryption.

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References:

Managing Access to Encrypted Data in AWS:AWS recommends using proper IAM roles and policies to control access to encrypted data stored in S3.

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**QUESTION 5**

A company uses a foundation model (FM) from Amazon Bedrock for an AI search tool. The company wants to fine-tune the model to be more accurate by using the company\\'s data.

Which strategy will successfully fine-tune the model?

A. Provide labeled data with the prompt field and the completion field.

B. Prepare the training dataset by creating a .txt file that contains multiple lines in .csv format.

C. Purchase Provisioned Throughput for Amazon Bedrock.

D. Train the model on journals and textbooks.

Correct Answer: A

Providing labeled data with both a prompt field and a completion field is the correct strategy for fine-tuning a foundation model (FM) on Amazon Bedrock.