

PRACTICE QUESTIONS

AWS

SAP-C03

AWS Certified Solutions Architect - Professional

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EDITION	Free Set 1
QUESTIONS	10
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EXAM	AWS SAP-C03, AWS Certified Solutions Architect - Professional

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10 practice questions for the AWS SAP-C03 exam, AWS Certified Solutions Architect - Professional, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. A security team wants encryption of every new EBS volume in every account, applied automatically and enforced against teams that might try to skip it. Which configuration meets this need?
 - A Per-volume encryption chosen by each team at creation time
 - B A CloudWatch alarm that reports unencrypted volumes after they are created, so that each one can be fixed by hand afterwards
 - C The Trusted Advisor check for unencrypted EBS volumes
 - D EBS encryption by default in every account and Region, with an SCP that denies unencrypted volume creation

Answer: D

Encryption by default makes new volumes encrypted automatically, and an SCP prevents any principal from creating an unencrypted volume. Per-volume choices depend on each team remembering to encrypt. Alarms and Trusted Advisor only report problems after they occur.

2. AWS Network Firewall is deployed in a dedicated _____ VPC so that traffic from several workload VPCs can be inspected centrally.

Answer: inspection

A central inspection VPC receives traffic through Transit Gateway attachments and sends it through Network Firewall endpoints before it continues. This is the standard hub pattern for centralized inspection. The fill-in answer names the purpose of the VPC.

3. Auditors must read CloudTrail logs held in a central logging account, and nobody may modify those logs. Which pattern works best?
 - A Give the auditors AdministratorAccess in the logging account
 - B Store the logs in a central S3 bucket with Object Lock and give auditors a read-only role for it
 - C Share the logs through a bucket ACL that grants the auditors' account full control
 - D Store the logs on EC2 instances that auditors can reach over SSH to read the files they need today

Answer: B

Object Lock protects the stored log objects from change, and a read-only role limits auditors to viewing them. Administrator access would let auditors change the logs and the bucket. Full-control bucket ACLs and SSH access on instances both leave the logs open to modification.

4. An SCP that denies all actions outside approved Regions automatically allows IAM and Route 53 calls, because those global services are exempt from Region restrictions by default.
- A True
 - B False

Answer: B (False)

Global services such as IAM and Route 53 are served from endpoints outside the approved Regions, so a Region-deny SCP can block them unless the policy explicitly exempts those services. The exemption is an explicit design choice rather than an automatic default. The statement is false.

5. Which TWO are benefits of using Amazon Bedrock Agents to build an assistant? (Choose two.)
- A It can call APIs through action groups defined with OpenAPI schemas or Lambda functions
 - B It requires the developer to host the foundation model on EC2
 - C It keeps conversation context for the duration of a session
 - D It retrains the foundation model automatically every night
 - E It allows only one tool to be attached to each agent

Answer: A, C

Action groups let an agent call business APIs described by OpenAPI schemas or implemented in Lambda, and session memory keeps context across turns. Bedrock manages the model, so the developer does not host it. Agents do not retrain models, and they support multiple action groups.

6. A customer-facing chat assistant must answer within seconds, and its traffic spikes unpredictably. Which Bedrock inference option fits?
- A On-demand inference through the runtime API with retries and exponential backoff
 - B Batch inference that processes one S3 file each night
 - C A fine-tuned model hosted on a single EC2 instance
 - D Provisioned Throughput bought for a fixed commitment that covers only nighttime hours

Answer: A

On-demand runtime calls serve interactive requests in real time and scale with demand, and backoff handles throttling during spikes. Batch inference is asynchronous and suited to large offline jobs. A single EC2 instance cannot absorb spikes, and a nighttime-only commitment does not cover daytime traffic.

7. A generative AI workflow must call a model, validate the output with a Lambda function, and route failed outputs to human review after retries. Which orchestrator fits?
- A Amazon EventBridge Scheduler only
 - B Amazon SNS only
 - C Amazon Managed Service for Apache Flink
 - D AWS Step Functions

Answer: D

Step Functions coordinates the model call, the validation step and the review path, with retry and catch rules for each state. EventBridge Scheduler only triggers work on a timetable, and SNS only fans out messages. Managed Service for Apache Flink processes data streams rather than orchestrating multi-step workflows.

8. An Amazon Bedrock _____ orchestrates model calls and can invoke Lambda functions or APIs through action groups.

Answer: agent (also accepted: Bedrock Agent)

A Bedrock Agent plans steps with a foundation model and calls action groups that map to Lambda functions or OpenAPI-defined APIs. Knowledge bases retrieve documents, while agents decide which actions to take. The fill-in names the Bedrock feature.

9. A company wants an alert when a service's spend rises unexpectedly, without setting a fixed budget for each service. Which tool provides this?
- A AWS Trusted Advisor, which gives periodic best-practice checks
 - B AWS CloudTrail
 - C Amazon Inspector
 - D AWS Cost Anomaly Detection

Answer: D

Cost Anomaly Detection uses machine learning to learn normal spend patterns and alerts on unexpected increases by service or tag, without fixed thresholds. Trusted Advisor gives periodic recommendations, CloudTrail records API calls, and Inspector scans for vulnerabilities.

10. A team must trace one generative AI request through API Gateway, a Lambda function, a knowledge base query and a model call. Which tool shows that path with timing for each step?
- A CloudTrail event history
 - B AWS X-Ray traces
 - C AWS Config resource timeline
 - D A Trusted Advisor report

Answer: B

X-Ray traces a request across services and shows the timing of each segment in the path. CloudTrail records API calls rather than request timing, and Config tracks configuration history. Trusted Advisor produces recommendations and does not trace requests.