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Amazon AWS Certified Developer - Associate Sample Questions (Q351-Q356):

NEW QUESTION # 351
A developer is creating a web application. The developer needs to store, retrieve, and rotate database credentials, OAuth tokens, and API keys.
The credentials, OAuth tokens, and API keys must be stored securely as secrets and must not be hardcoded in the application source code. The secrets must be automatically rotated every 6 months.
What should the developer do to meet these requirements?

- A. Create and store the secrets in AWS KMS. Configure AWS KMS to automatically rotate the secrets every 6 months.

- B. Create and store the secrets in AWS Certificate Manager (ACM). Choose the appropriate certificate type. Set up the rotation period of the certificate to be every 6 months.
- C. Create and store the secrets in Amazon EventBridge. Configure a RotateKey event in EventBridge to rotate the secrets every 6 months.
- D. Create and store the secrets in AWS Secrets Manager. Choose the appropriate secret type. Turn on automatic rotation. Set the rotation schedule to every 6 months.

Answer: D

Explanation:
AWS best practice is to store sensitive values like database passwords, OAuth tokens, and API keys in a dedicated secrets service rather than in source code or configuration files. AWS Secrets Manager is specifically designed for this use case: secure storage, retrieval through APIs/SDKs, fine-grained IAM access control, encryption at rest, auditing through CloudTrail, and-critically-built-in secret rotation.
AWS documentation describes Secrets Manager rotation as an automated process that uses a rotation schedule and typically invokes a Lambda function to update the secret in both Secrets Manager and the target system (for example, a database). The rotation schedule can be configured to a custom interval, including every 6 months, satisfying the requirement.
Option A is incorrect because AWS KMS manages encryption keys, not application secrets. KMS key rotation rotates KMS keys, not database credentials or API tokens.
Option B is incorrect because ACM manages TLS certificates, not arbitrary secrets like API keys and OAuth tokens.
Option C is incorrect because EventBridge can schedule events, but it is not a secrets storage service and does not provide secure secret lifecycle management and integrated rotation workflows by itself.
Therefore, storing secrets in AWS Secrets Manager and enabling automatic rotation with a 6-month schedule is the correct solution.

NEW QUESTION # 352

A banking company is building an application for users to create accounts, view balances, and review recent transactions. The company integrated an Amazon API Gateway REST API with AWS Lambda functions. The company wants to deploy a new version of a Lambda function that gives customers the ability to view their balances. The new version of the function displays customer transaction insights. The company wants to test the new version with a small group of users before deciding whether to make the feature available for all users. Which solution will meet these requirements with the LEAST disruption to users?

- A. Redeploy the REST API stage to use the new version of the function. If issues are detected, update the REST API to point to the previous version of the function.
- B. Deploy the new version of the function to a new stage in the REST API. Route traffic to the new stage. If the new version fails, route traffic to the original stage.
- C. Create a canary deployment for the REST API. Gradually increase traffic to the new version of the function. Revert traffic to the old version if issues are detected.
- D. Create a new REST API stage for the new version of the function. Create a weighted alias record set in Amazon Route 53 to distribute traffic between the original stage and the new stage.

Answer: C

Explanation:
API Gateway's canary deployments allow gradual traffic shifting to a new version of a function, minimizing disruption while testing.
Why Option A is Correct:
Gradual Rollout: Reduces risk by incrementally increasing traffic.
Rollback Support: Canary deployments make it easy to revert to the previous version.
Why Not Other Options:
Option B: Redeploying the stage disrupts all users.
Option C & D: Managing new stages and weighted routing introduces unnecessary complexity.
Reference:
Canary Deployments in API Gateway

NEW QUESTION # 353

A gaming application stores scores for players in an Amazon DynamoDB table that has four attributes: user_id, user_name, user_score, and user_rank. The users are allowed to update their names only. A user is authenticated by web identity federation. Which set of conditions should be added in the policy attached to the role for the dynamodb:PutItem API call?

- A. "Condition": {

```
"ForAllValues:StringEquals": {
"dynamodb:LeadingKeys": ["${www.amazon.com:user_id}"],
"dynamodb:Attributes": ["user_name", "user_id"]
}
}
```
- B. "Condition": {
```
"ForAllValues:StringEquals": {
"dynamodb:LeadingKeys": ["${www.amazon.com:user_name}"],
"dynamodb:Attributes": ["user_id"]
}
}
```
- C. "Condition": {
```
"ForAllValues:StringEquals": {
"dynamodb:LeadingKeys": ["${www.amazon.com:user_name}"],
"dynamodb:Attributes": ["username", "userid"]
}
}
```
- D. "Condition": {
```
"ForAllValues:StringEquals": {
"dynamodb:LeadingKeys": ["${www.amazon.com:user_id}"],
"dynamodb:Attributes": ["user_name"]
}
}
```

Answer: D

Explanation:
The correct policy condition ensures that:
The LeadingKeys condition restricts operations to the authenticated user's user_id.
The Attributes condition limits the updatable attributes to user_name.
Explanation of Choices:
Option A: Correctly enforces both the key restriction (dynamodb:LeadingKeys) and ensures only the user_name attribute can be updated.
Option B, C, D: Use incorrect conditions, such as referencing user_name in the LeadingKeys or including other attributes like user_id in updatable fields.
Reference:
AWS DynamoDB Condition Keys Documentation
Reference:
AWS DynamoDB Condition Keys Documentation

NEW QUESTION # 354

A company has a mobile app. The app includes an Amazon API Gateway REST API that invokes AWS Lambda functions. The Lambda functions process data from the app.
The company needs to test updated Lambda functions that have new features. The company must conduct these tests with a subset of users before deployment. The tests must not affect other users of the app.
Which solution will meet these requirements with the LEAST amount of operational effort?

- A. Create a new REST API in API Gateway. Set up a Lambda non-proxy integration to connect to multiple Lambda functions. Specify the necessary parameters and properties in API Gateway.Enable canary settings on the deployment stage. Specify a smaller percentage of API traffic to go to the new version of the Lambda function.
- B. Create a new version of each Lambda function. Integrate a predefined canary deployment in AWS CodeDeploy to slowly shift the traffic to the new versions automatically.
- C. Create a new version of each Lambda function with a weighted alias. Configure a weight value for each version of the Lambda function. Update the new weighted alias Amazon Resource Name (ARN) in the REST API.
- D. Create a new REST API in API Gateway. Set up a Lambda proxy integration to connect to multiple Lambda functions. Enable canary settings on the deployment stage. Specify a smaller percentage of API traffic to go to the new version of the Lambda function.

Answer: B

NEW QUESTION # 355

A developer has written a distributed application that uses microservices. The microservices are running on Amazon EC2 instances. Because of message volume, the developer is unable to match log output from each microservice to a specific transaction. The developer needs to analyze the message flow to debug the application.

Which combination of steps should the developer take to meet this requirement? (Choose two.)

- A. Enable AWS X-Ray. Configure Amazon CloudWatch to push logs to X-Ray.
- B. Download the AWS X-Ray daemon. Install the daemon on an EC2 instance. Ensure that the EC2 instance allows UDP traffic on port 2000.
- C. Configure an interface VPC endpoint to allow traffic to reach the global AWS X-Ray daemon on TCP port 2000.
- D. Set up Amazon CloudWatch metric streams to collect streaming data from the microservices.
- E. Add the AWS X-Ray software development kit (SDK) to the microservices. Use X-Ray to trace requests that each microservice makes.

Answer: B,E

NEW QUESTION # 356

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