DVA-C01 Q&As

AWS Certified Developer - Associate (DVA-C01)

Pass Amazon DVA-C01 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

https://www.passapply.com/aws-certified-developer-associate.html

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by Amazon Official Exam Center

- **Instant Download** After Purchase
- **100% Money Back** Guarantee
- **365 Days** Free Update
- **800,000+** Satisfied Customers

QUESTION 1

A developer is automating a new application deployment with AWS Serverless Application Model (AWS SAM). The new application has one AWS Lambda function and one Amazon S3 bucket. The Lambda function must access the S3 bucket to only read objects.

How should the developer configure AWS SAM to grant the necessary read privilege to the S3 bucket?

A. Reference a second Lambda authorizer function.

B. Add a custom S3 bucket policy to the Lambda function.

C. Create an Amazon Simple Queue Service (SQS) topic for only S3 object reads. Reference the topic in the template.

D. Add the S3ReadPolicy template to the Lambda function\\'s execution role.

Correct Answer: D

Reference: https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-policy-templates.html

QUESTION 2

A developer wants to implement Amazon EC2 Auto Scaling for a web application The developer wants to ensure that sessions will not be lost during scale-in events. How can the developer maintain the session state and share it across the EC2 instances?

A. Write the sessions to an Amazon Elastic Block Store (Amazon EBS) volume. Mount the EBS volume to each EC2 instance in the group.

B. Store the sessions in an Amazon ElastiCache for Memcached cluster. Configure the application to use the Memcached API.

C. Publish the sessions to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe each EC2 instance in the group to the topic.

D. Write the sessions to an Amazon Redshift cluster. Configure the application to use the Amazon Redshift API.

Correct Answer: B

Reference: https://aws.amazon.com/memcached/

QUESTION 3

A Developer writes an AWS Lambda function and uploads the code in a .ZIP file to Amazon S3. The Developer makes changes to the code and uploads a new .ZIP file to Amazon S3. However, Lambda executes the earlier code. How can the Developer fix this in the LEAST disruptive way?

A. Create another Lambda function and specify the new .ZIP file.

B. Call the update-function-code API.

C. Remove the earlier .ZIP file first, then add the new .ZIP file.

D. Call the create-alias API.

Correct Answer: B

https://docs.aws.amazon.com/cli/latest/reference/lambda/update-function-code.html

QUESTION 4

A Developer wants to enable AWS X-Ray for a secure application that runs in an Amazon ECS environment. What combination of steps will enable X-Ray? (Select THREE.)

A. Create a Docker image that runs the X-Ray daemon.

B. Add instrumentation to the application code for X-Ray.

C. Install the X-Ray daemon on the underlying EC2 instance.

D. Configure and use an IAM EC2 instance role.

E. Register the application with X-Ray.

F. Configure and use an IAM role for tasks.

Correct Answer: ABF

https://docs.aws.amazon.com/xray/latest/devguide/xray-daemon-ecs.html
https://docs.aws.amazon.com/xray/latest/devguide/scorekeep-ecs.html

QUESTION 5

A Developer has setup an Amazon Kinesis Stream with 4 shards to ingest a maximum of 2500 records per second. A Lambda function has been configured to process these records. In which order will these records be processed?

A. Lambda will receive each record in the reverse order it was placed into the stream following a LIFO (last-in, first-out) method

B. Lambda will receive each record in the exact order it was placed into the stream following a FIFO (first-in, first-out) method.

C. Lambda will receive each record in the exact order it was placed into the shard following a FIFO (first-in, first-out) method. There is no guarantee of order across shards.

D. The Developer can select FIFO, (first-in, first-out), LIFO (last-in, last-out), random, or request specific record using the getRecords API.

Correct Answer: C

QUESTION 6

A developer has written a serverless application and wants to deploy it to AWS Lambda to leverage the function\\'s multi-threaded execution to improve performance. Which action should the developer take to achieve these requirements?

A. increase the Lambda function execution timeout

B. Use unreserved account concurrency.

C. Increase the memory allocation of the Lambda function

D. Set the reserved concurrency of the Lambda function to a higher number

Correct Answer: C

QUESTION 7

A developer is running an application on an Amazon EC2 instance. When the application tries to read an Amazon S3 bucket the application fails. The developer notices that the associated IAM role is missing the S3 read permission. The developer needs to give the application the ability to read the S3 bucket.

Which solution will meet this requirement with the LEAST application disruption?

A. Add the permission to the role. Terminate the existing EC2 instance. Launch a new EC2 instance

B. Add the permission to the role so that the change will take effect automatically

C. Add the permission to the role. Hibernate and restart the existing EC2 instance.

D. Add the permission to the S3 bucket. Restart the EC2 instance.

Correct Answer: D

Reference: https://aws.amazon.com/premiumsupport/knowledge-center/ec2-instance-access-s3-bucket/

QUESTION 8

Which DynamoDB limits can be raised by contacting AWS support? Choose 2 answers

A. The number of hash keys per account

B. The maximum storage used per account

C. The number of tables per account

D. The number of local secondary indexes per account

E. The number of provisioned throughput units per account

Correct Answer: CE

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Limits.html

QUESTION 9

A company needs to secure its existing website running behind an Elastic Load Balancer. The website\\'s Amazon EC2 instances are CPU-constrained. What should be done to secure the website while not increasing the CPU load on the EC2 web servers? (Select TWO.)

A. Configure an Elastic Load Balancer with SSL pass-through.

B. Configure SSL certificates on an Elastic Load Balancer.

C. Configure an Elastic Load Balancer with a Loadable Storage System.

D. Install SSL certificates on the EC2 instances.

E. Configure an Elastic Load Balancer with SSL termination.

Correct Answer: BD

QUESTION 10

A company wants to containerize an existing three-tier web application and deploy it to Amazon Elastic Container Service (Amazon ECS) on AWS Fargate. The application is using session data to keep track of user activities. The company needs a solution to store the session data.

Which solution will meet these requirements with the HIGHEST throughput?

A. Provision an Amazon ElastiCache for Redis cluster. Store the session data in the cluster.

B. Create a session table in Amazon Redshift. Store the session data in the table.

C. Place the web application behind a Network Load Balancer with session affinity (sticky sessions) enabled. Store the session data in the containers.

D. Create a new Amazon S3 bucket with S3 Versioning enabled. Store the session data in the S3 bucket.

Correct Answer: A

QUESTION 11

How can a developer use a debugger for AWS Lambda code that is deployed with AWS Serverless Application Model (AWS SAM)?

A. Download the Lambda code locally and use the AWS CLI to execute it

B. Use the Lambda console to connect the debugger

C. Use AWS SAM to invoke a function locally in debug mode

D. Connect a third-party-compatible integrated development environment (IDE) to the Lambda debugger endpoint

Correct Answer: C

Reference: https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-sam-cli-using-debugging.html

QUESTION 12

A Developer created a new AWS account and must create a scalable AWS Lambda function that meets the following requirements for concurrent execution:

Average execution time of 100 seconds 50 requests per second Which step must be taken prior to deployment to prevent errors?

A. Implement dead-letter queues to capture invocation errors

B. Add an event source from Amazon API Gateway to the Lambda function

C. Implement error handling within the application code

D. Contact AWS Support to increase the concurrent execution limits

Correct Answer: D

https://aws.amazon.com/about-aws/whats-new/2017/05/aws-lambda-raises-default-concurrent- execution-limit/

QUESTION 13

A Developer must deploy a new AWS Lambda function using an AWS CloudFormation template.

Which procedures will deploy a Lambda function? (Select TWO.)

A. Upload the code to an AWS CodeCommit repository, then add a reference to it in an AWS::Lambda::Function resource in the template.

B. Create an AWS::Lambda::Function resource in the template, then write the code directly inside the CloudFormation template.

C. Upload a .ZIP file containing the function code to Amazon S3, then add a reference to it in an AWS::Lambda::Function resource in the template.

D. Upload a .ZIP file to AWS CloudFormation containing the function code, then add a reference to it in an AWS::Lambda::Function resource in the template.

E. Upload the function code to a private Git repository, then add a reference to it in an AWS::Lambda::Function resource in the template.

Correct Answer: BC

https://aws.amazon.com/blogs/infrastructure-and-automation/deploying-aws-lambda-functions-using-aws-cloudformation-the-portable-way/

QUESTION 14

A Developer is receiving HTTP 400: ThrottlingException errors intermittently when calling the Amazon CloudWatch API. When a call fails, no data is retrieved.

What best practice should first be applied to address this issue?

A. Contact AWS Support for a limit increase.

B. Use the AWS CLI to get the metrics

C. Analyze the applications and remove the API call

D. Retry the call with exponential backoff

Correct Answer: D

https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/cloudwatch_limits.html

QUESTION 15

A developer is working on an ecommerce website. The developer wants to review server logs without logging in to each of the application servers individually. The website runs on multiple Amazon EC2 instances, is written in Python, and needs to be highly available.

How can the developer update the application to meet these requirements with MINIMUM changes?

A. Rewrite the application to be cloud native and to run on AWS Lambda, where the logs can be reviewed in Amazon CloudWatch.

B. Set up centralized logging by using Amazon Elasticsearch Service (Amazon ES), Logstash, and Kibana.

C. Scale down the application to one larger EC2 instance where only one instance is recording logs.

D. Install the unified Amazon CloudWatch agent on the EC2 instances. Configure the agent to push the application logs to CloudWatch.

Correct Answer: D