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QUESTION 1

A developer converted an existing program to an AWS Lambda function in the console. The program runs properly on a local laptop, but shows an "Unable to import module" error when tested in the Lambda console. Which of the following can fix the error?

- A. Install the missing module and specify the current directory as the target. Create a ZIP file to include all files under the current directory, and upload the ZIP file.
- B. Install the missing module in a lib directory. Create a ZIP file to include all files under the lib directory, and upload the ZIP file as dependency file.
- C. In the Lambda code, invoke a Linux command to install the missing modules under the /usr/lib directory.
- D. In the Lambda console, create a LB_LIBRARY_PATH environment and specify the value for the system library path.

Correct Answer: A

Reference: <https://docs.aws.amazon.com/lambda/latest/dg/lambda-dg.pdf>

QUESTION 2

A customer wants to deploy its source code on an AWS Elastic Beanstalk environment. The customer needs to perform deployment with minimal outage and should only use existing instances to retain application access log.

What deployment policy would satisfy these requirements?

- A. Rolling
- B. All at once
- C. Rolling with an additional batch
- D. Immutable

Correct Answer: A

QUESTION 3

Queries to an Amazon DynamoDB table are consuming a large amount of read capacity. The table has a significant number of large attributes. The application does not need all of the attribute data. How can DynamoDB costs be minimized while maximizing application performance?

- A. Batch all the writes, and perform the write operations when no or few reads are being performed.
- B. Create a global secondary index with a minimum set of projected attributes.
- C. Implement exponential backoffs in the application.
- D. Load balance the reads to the table using an Application Load Balancer.

Correct Answer: B

<https://docs.aws.amazon.com/AWSEC2/latest/APIReference/query-api-troubleshooting.html>

QUESTION 4

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 5

An application that runs on an Amazon EC2 instance needs to access and make API calls to multiple AWS services. What is the MOST secure way to provide access to the AWS services with MINIMAL management overhead?

- A. Use AWS KMS to store and retrieve credentials.
- B. Use EC2 instance profiles.
- C. Use AWS root user to make requests to the application.
- D. Store and retrieve credentials from AWS CodeCommit.

Correct Answer: C

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html

QUESTION 6

An advertising company has a dynamic website with heavy traffic. The company wants to migrate the website infrastructure to AWS to handle everything except website development. Which solution BEST meets these requirements?

- A. Use AWS VM Import to migrate a web server image to AWS. Launch the image on a compute-optimized Amazon EC2 instance.

- B. Launch multiple Amazon Lightsail instance behind a load balancer. Set up the website on those instances.
- C. Deploy the website code in an AWS Elastic Beanstalk environment. Use Auto Scaling to scale the numbers of instance
- D. Use Amazon S3 to host the website. Use Amazon CloudFront to deliver the content at scale.

Correct Answer: C

QUESTION 7

A company processes incoming documents from an Amazon S3 bucket. Users upload documents to an S3 bucket using a web user interface. Upon receiving files in S3, an AWS Lambda function is invoked to process the files, but the Lambda function times out intermittently.

If the Lambda function is configured with the default settings, what will happen to the S3 event when there is a timeout exception?

- A. Notification of a failed S3 event is send as an email through Amazon SNS.
- B. The S3 event is sent to the default Dead Letter Queue.
- C. The S3 event is processed until it is successful.
- D. The S3 event is discarded after the event is retried twice.

Correct Answer: A

QUESTION 8

You have an environment that consists of a public subnet using Amazon VPC and 3 instances that are running in this subnet. These three instances can successfully communicate with other hosts on the Internet. You launch a fourth instance in the same subnet, using the same AMI and security group configuration you used for the others, but find that this instance cannot be accessed from the Internet.

What should you do to enable internet access?

- A. Deploy a NAT instance into the public subnet.
- B. Modify the routing table for the public subnet
- C. Configure a publically routable IP Address In the host OS of the fourth instance.
- D. Assign an Elastic IP address to the fourth instance.

Correct Answer: D

QUESTION 9

A developer is implementing authentication and authorization for an application. The developer needs to ensure that the user credentials are never exposed. Which approach should the developer take to meet this requirement?

- A. Store the user credentials In Amazon DynamoDB Build an AWS Lambda function to validate the credentials and authorize users
- B. Deploy a custom authentication and authorization API on an Amazon EC2 instance. Store the user credentials in Amazon S3 and encrypt the credentials using Amazon S3 server-side encryption.
- C. Use Amazon Cognito to configure a user pool, and use the Cognito API to authenticate and authorize the user
- D. Store the user credentials In Amazon RDS Enable the encryption option for the Amazon RDS D8 instances Build an API using AWS Lambda to validate the credentials and authorize users

Correct Answer: A

QUESTION 10

How does Envelope Encryption work in AWS KMS?

- A. The Customer Master Key is used to encrypt/decrypt a data key The Plaintext Data Key is used to encrypt customer data.
- B. Two encryption keys are used The Customer Master Key encrypts customer data. The Data Key is used to re-encrypt the encrypted data.
- C. Two encryption keys are used The Data Key encrypts customer data The Customer Master Key is used to re-encrypt the encrypted data
- D. The Customer Master Key is used to encrypt/decrypt a data key. The Encrypted Data Key is used to encrypt customer data.

Correct Answer: A

QUESTION 11

An application runs on multiple EC2 instances behind an ELB.

Where is the session data best written so that it can be served reliably across multiple requests?

- A. Write data to Amazon ElastiCache
- B. Write data to Amazon Elastic Block Store.
- C. Write data to Amazon EC2 Instance Store.
- D. Write data to the root filesystem.

Correct Answer: C

Reference:

https://docs.aws.amazon.com/aws-technical-content/latest/microservices-on-aws/microservices-on-aws.pdf?icmpid=link_from_whitepapers_page (14)

QUESTION 12

A company has developed a new serverless application using AWS Lambda functions that will be deployed using the AWS Serverless Application Model (AWS SAM) CLI. Which step should the developer complete prior to deploying the application?

- A. Compress the application to a .zip file and upload it into AWS Lambda
- B. Test the new AWS Lambda function by first tracing it in AWS X-Ray
- C. Bundle the serverless application using a SAM package
- D. Create the application environment using the `eb create my-env` command

Correct Answer: A

Reference: <https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-application-model.pdf>

QUESTION 13

A Developer is writing an imaging micro service on AWS Lambda. The service is dependent on several libraries that are not available in the Lambda runtime environment. Which strategy should the Developer follow to create the Lambda deployment package?

- A. Create a ZIP file with the source code and all dependent libraries.
- B. Create a ZIP file with the source code and a script that installs the dependent libraries at runtime.
- C. Create a ZIP file with the source code. Stage the dependent libraries on an Amazon S3 bucket indicated by the Lambda environment variable `LD_LIBRARY_PATH`
- D. Create a ZIP file with the source code and a `buildspec.yaml` file that installs the dependent libraries on AWS Lambda.

Correct Answer: B

QUESTION 14

company needs a fully-managed source control service that will work in AWS. The service must ensure that revision control synchronizes multiple distributed repositories by exchanging sets of changes peer-to-peer. All users need to work productively even when not connected to a network.

Which source control service should be used?

- A. Subversion
- B. AWS CodeBuild
- C. AWS CodeCommit

D. AWS CodeStar

Correct Answer: C

QUESTION 15

An application contains two components: one component to handle HTTP requests, and another component to handle background processing tasks. Each component must scale independently. The developer wants to deploy this application using AWS Elastic Beanstalk.

How should this application be deployed, based on these requirements?

- A. Deploy the application in a single Elastic Beanstalk environment.
- B. Deploy each component in a separate Elastic Beanstalk environment.
- C. Use multiple Elastic Beanstalk environments for the HTTP component, but one environment for the background task component.
- D. Use multiple Elastic Beanstalk environments for the background task component, but one environment for the HTTP component.

Correct Answer: D

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