**AWS Developer Questions**

**Name:**

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1. A developer is building an application that transforms text files to .pdf files. The text files are written to a source Amazon S3 bucket by a separate application.

The developer wants to read the files as they arrive in Amazon S3 and convert them to .pdf files using AWS Lambda. The developer has written an IAM policy to allow access to Amazon S3 and Amazon CloudWatch Logs.

Which actions should the developer take to ensure that the Lambda function has the correct permissions?

* 1. Create a Lambda execution role using AWS IAM. Attach the IAM policy to the role. Assign the Lambda execution role to the Lambda function.
  2. Create a Lambda execution user using AWS IAM. Attach the IAM policy to the user. Assign the Lambda execution user to the Lambda function.
  3. Create a Lambda execution role using AWS IAM. Attach the IAM policy to the role. Store the IAM role as an environment variable in the Lambda function.
  4. Create a Lambda execution user using AWS IAM. Attach the IAM policy to the user. Store the IAM user credentials as environment variables in the Lambda function.

1. Your application reads commands from an SQS queue and sends them to web services hosted by your partners.

When a partner's endpoint goes down, your application continually returns their commands to the queue. The repeated attempts to deliver these commands use up resources. Commands that can’t be delivered must not be lost. How can you accommodate the partners' broken web services without wasting your resources?

* 1. Create a delay queue and set DelaySeconds to 30 seconds.
  2. Requeue the message with a VisibilityTimeout of 30 seconds.
  3. Create a dead letter queue and set the Maximum Receives to 3.
  4. Requeue the message with a DelaySeconds of 30 seconds.

1. The application components of your application scattered in AWS accounts. The organization must gather and display trace data.

What materials should be utilized to achieve these specifications?

* 1. AWS X-Ray
  2. Amazon CloudWatch
  3. Amazon VPC flow logs
  4. Amazon Elasticsearch Service

1. An Amazon S3 bucket is used to host a static website. JavaScript is used on many HTML pages on the site to retrieve photos from another Amazon S3 bucket. When people explore the site, certain photos are not shown.

What may be the underlying source of the problem?

* 1. The referenced Amazon S3 bucket is in another region.
  2. The images must be stored in the same Amazon S3 bucket.
  3. Port 80 must be opened on the security group in which the Amazon S3 bucket is located.
  4. Cross Origin Resource Sharing must be enabled on the Amazon S3 bucket.

1. As a big state machine, the existing design makes use of several Lambda functions calling one another. This state machine's coordination is handled by old bespoke code that is prone to failure.

Which AWS Service can assist with state machine refactoring and management?

* 1. AWS Data Pipeline
  2. AWS SNS with AWS SQS
  3. Amazon Elastic MapReduce
  4. AWS Step Functions

1. For its application database tier, a corporation uses Amazon RDS MySQL instances, and for its web tier, Apache Tomcat servers. Repeated read requests make up the majority of database queries from web apps.

Which AWS service would benefit from the addition of an in-memory store for repeated read queries?

* 1. Amazon RDS Multi-AZ
  2. Amazon SQS
  3. Amazon ElastiCache
  4. Amazon RDS read replica

1. You need to upload the 100 TB files in the S3 bucket. How many write operation you need to perform to upload 100 TB files?
2. 20,000
3. 20
4. 200
5. 1
6. XYZ Organisation developing the write intensive project for financial client. Their client looking for application where they can occasionally generate reports, and use joins across multiple tables.

The database should support high availability and multi-master model.

Which AWS service should be used to run the database?

1. Amazon S3
2. Amazon Aurora
3. Amazon DynamoDB
4. Amazon Redshift
5. You’re are developing an application that upload and processes large video files. When those processing is complete you need to get notified of this via email.

Which tool is most appropriate?

1. AWS Step Function
2. AWS SQS
3. AWS SNS
4. AWS SES
5. An organization has created a new application for creative images which is hosted on the AWS EC2 instance. Because images need lots of storage, organisation decided to use the AWS S3 to keep these images.

Due to security issues organization does not want to store the AWS secure credentials required to access the S3 from application hosted on AWS EC2 instance.

Which option they should choose to avoid using AWS secure credentials.

1. We can use IAM role, & attach to IAM user
2. We can use IAM role & attach to an EC2 instance
3. Since EC2 & S3 are hosted on same account, security credentials doesn’t require
4. Use the X.509 certificates
5. The development team is now hard at work developing an API that will be provided through the Amazon API gateway. Three environments will service the API: development, test, and production.

Which deployment option is the MOST cost-effective?

1. Create a single API Gateway with all three stages.
2. Create three API Gateways, one for each stage in a single AWS account.
3. Create an API Gateway in three separate AWS accounts.
4. Enable the cache for development and test environments only when needed.
5. Resources that we created in AWS are identified by a unique identifier.

What is this unique identifier called in AWS?

1. Amazon Resource Number
2. Amazon Resource Nametag
3. Amazon Resource Name
4. Amazon Resource Namespace
5. A Linux, Apache, MySQL, and PHP (LAMP) stack is used to construct an on-premises application. The developer want to host this application on Amazon Web Services.

Which of the following AWS service sets is appropriate for running this stack?

1. Amazon API Gateway, Amazon S3
2. AWS Lambda, Amazon DynamoDB
3. Amazon EC2, Amazon Aurora
4. Amazon Cognito, Amazon RDS
5. Amazon ECS, Amazon EBS
6. An application extracts metadata from files uploaded to an S3 bucket using Lambda functions; the information is then saved in Amazon DynamoDB. The program begins to behave strangely, and the developer want to investigate the Lambda function code's logs for faults.

Where would the Developer look for logs based on this system configuration?

1. Amazon S3
2. AWS CloudTrail
3. Amazon CloudWatch
4. Amazon DynamoDB
5. A business need a fully managed source control solution that is compatible with AWS. By sharing sets of changes peer-to-peer, the service must guarantee that revision control synchronizes various dispersed repositories. All users must be productive regardless of whether they are connected to a network.

Which version control system should I use?

* 1. Subversion
  2. AWS CodeBuild
  3. AWS CodeCommit
  4. AWS CodeStar