



Free Questions for DOP-C01 by certsdeals

Shared by Joseph on 12-12-2023

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Question 1

Question Type: MultipleChoice

An application's users are encountering bugs immediately after Amazon API Gateway deployments. The development team deploys once or twice a day and uses a blue/green deployment strategy with custom health checks and automated rollbacks. The team wants to limit the number of users affected by deployment bugs and receive notifications when rollbacks are needed.

Which combination of steps should a DevOps engineer use to meet these requests? (Select TWO.)

Options:

- A- Implement a blue/green strategy using path mappings.
- B- Implement a canary deployment strategy.
- C- Implement a rolling deployment strategy using multiple stages.
- D- Use Amazon CloudWatch alarms to notify the development team.
- E- Use Amazon CloudWatch Events to notify the development team.

Answer:

B, D

Question 2

Question Type: MultipleChoice

A DevOps engineer is tasked with moving a mission-critical business application running in Go to AWS. The development team running this application is understaffed and requires a solution that allows the team to focus on application development. They also want to enable blue/green deployments and perform A/B testing.

Which solution will meet these requirements?

Options:

- A-** Deploy the application on an Amazon EC2 instance and create an AMI of this instance. Use this AMI to create an automatic scaling launch configuration that is used in an Auto Scaling group. Use an Elastic Load Balancer to distribute traffic. When changes are made to the application, a new AMI is created and replaces the launch configuration.
- B-** Use Amazon Lightsail to deploy the application. Store the application in a zipped format in an Amazon S3 bucket Use this zipped version to deploy new versions of the application to Lightsail. Use Lightsail deployment options to manage the deployment.
- C-** Use AWS CodePipeline with AWS CodeDeploy to deploy the application to a fleet of Amazon EC2 instances. Use an Elastic Load Balancer to distribute the traffic to the EC2 instances. When making changes to the application, upload a new version to CodePipeline and let it deploy the new version.
- D-** Use AWS Elastic Beanstalk to host the application. Store a zipped version of the application in Amazon S3, and use that location to deploy new versions of the application using Elastic Beanstalk to manage the deployment options.

Answer:

D

Question 3

Question Type: MultipleChoice

A company wants to use AWS Systems Manager documents to bootstrap physical laptops for developers. The bootstrap code is stored in GitHub. A DevOps engineer has already created a Systems Manager activation, installed the Systems Manager agent with the registration code, and installed an activation ID on all the laptops.

Which set of steps should be taken next?

Options:

- A-** Configure the Systems Manager document to use the AWS-RunShellScript command to copy the files from GitHub to Amazon S3, then use the aws-downloadContent plugin with a source Type of S3.
- B-** Configure the Systems Manager document to use the aws-configurePackage plugin with an install action and point to the Git repository.
- C-** Configure the Systems Manager document to use the aws-downloadContent plugin with a sourceType of GitHub and sourceInfo with the repository details.

D- Configure the Systems Manager document to use the aws:softwareInventory plugin and run the script from the Git repository.

Answer:

D

Question 4

Question Type: MultipleChoice

A company needs to implement a robust CI/CD pipeline to automate the deployment of an application in AWS. The pipeline must support continuous integration, continuous delivery, and automatic rollback upon deployment failure. The entire CI/CD pipeline must be capable of being re-provisioned in alternate AWS accounts or Regions within minutes. A DevOps engineer has already created an AWS CodeCommit repository to store the source code.

Which combination of actions should be taken when building this pipeline to meet these requirements? (Select THREE.)

Options:

A- Configure an AWS CodePipeline pipeline with a build stage using AWS CodeBuild.

B- Copy the build artifact from CodeCommit to Amazon S3.

C- Create an Auto Scaling group of Amazon EC2 instances behind an Application Load Balancer (ALB) and set the ALB as the

deployment target in AWS CodePipeline.

D- Create an AWS Elastic Beanstalk environment as the deployment target in AWS CodePipeline.

E- Implement an Amazon SQS queue to decouple the pipeline components.

F- Provision all resources using AWS CloudFormation.

Answer:

A, B, D

Question 5

Question Type: MultipleChoice

A development team wants to deploy an application using AWS CloudFormation stacks, but the developer IAM role does not currently have the required permissions to provision the resources specified in the CloudFormation template. A DevOps engineer is tasked with allowing developers to deploy the stacks while following the principal of least privilege.

Which solution will meet these requirements?

Options:

- A-** Create an IAM policy that allows developers to provision the required resources. Attach the policy to the developer role.
 - B-** Create an IAM policy that allows full access to CloudFormation. Attach the policy to the developer role.
 - C-** Create a new IAM role with the required permissions to use as a CloudFormation service role. Grant the developer role a cloudformation:* action.
 - D-** Create a new IAM role with the required permissions to use as a CloudFormation service role. Grant the developer role the iam:PassRole permission.
- <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/using-iam-servicerole.html>

Answer:

C

Question 6

Question Type: MultipleChoice

An ecommerce company is receiving reports that its order history page is experiencing delays in reflecting the processing status of orders. The order processing system consists of an AWS Lambda function using reserved concurrency. The Lambda function processes order messages from an Amazon SQS queue and inserts processed orders into an Amazon DynamoDB table. The DynamoDB table has Auto Scaling enabled for read and write capacity.

Which actions will diagnose and resolve the delay? (Select TWO.)

Options:

- A- Check the ApproximateAgeOfOldestMessage metric for the SQS queue and increase the Lambda function concurrency limit.
- B- Check the ApproximateAgeOfOldestMessage metric for the SQS queue and configure a redrive policy on the SQS queue.
- C- Check the NumberOfMessagesSent metric for the SQS queue and increase the SQS queue visibility timeout.
- D- Check the ThrottledWriteRequests metric for the DynamoDB table and increase the maximum write capacity units for the table's Auto Scaling policy.
- E- Check the Throttles metric for the Lambda function and increase the Lambda function timeout.

Answer:

A, B

Question 7

Question Type: MultipleChoice

A company uses AWS KMS with CMKs and manual key rotation to meet regulatory compliance requirements. The security team wants to be notified when any keys have not been rotated after 90 days.

Which solution will accomplish this?

Options:

- A- Configure AWS KMS to publish to an Amazon SNS topic when keys are more than 90 days old.
- B- Configure an Amazon CloudWatch Events event to launch an AWS Lambda function to call the AWS Trusted Advisor API and publish to an Amazon SNS topic
- C- Develop an AWS Config custom rule that publishes to an Amazon SNS topic when keys are more than 90 days old
- D- Configure AWS Security Hub to publish to an Amazon SNS topic when keys are more than 90 days old.

Answer:

C

Question 8

Question Type: MultipleChoice

A company has multiple child accounts that are part of an organization in AWS Organizations. The security team needs to review every Amazon EC2 security group and their inbound and outbound rules. The security team wants to programmatically retrieve this information from the child accounts using an AWS Lambda function in the master account of the organization.

Which combination of access changes will meet these requirements? (Select THREE.)

Options:

- A- Create a trust relationship that allows users in the child accounts to assume the master account IAM role.
- B- Create a trust relationship that allows users in the master account to assume the IAM roles of the child accounts.
- C- Create an IAM role in each child account that has access to the AmazonEC2ReadOnlyAccess managed policy.
- D- Create an IAM role in each child account to allow the sts:AssumeRole action against the master account IAM role's ARN.
- E- Create an IAM role in the master account that allows the sts:AssumeRole action against the child account IAM role's ARN.
- F- Create an IAM role in the master account that has access to the AmazonEC2ReadOnlyAccess managed policy.

Answer:

A, D, F

Question 9

Question Type: MultipleChoice

A company has an application that is using a MySQL -compatible Amazon Aurora Multi-AZ DB cluster as the database A cross-Region read replica has been created for disaster recovery purposes A DevOps engineer wants to automate the promotion of the replica so it becomes the primary database instance in the event of a failure

Which solution will accomplish this?

Options:

- A-** Configure a latency-based Amazon Route 53 CNAME with health checks so it points to both the primary and replica endpoints Subscribe an Amazon SNS topic to Amazon RDS failure notifications from AWS CloudTrail and use that topic to trigger an AWS Lambda function that will promote the replica instance as the master.
- B-** Create an Aurora custom endpoint to point to the primary database instance Configure the application to use this endpoint Configure AWS CloudTrail to run an AWS Lambda function to promote the replica instance and modify the custom endpoint to point to the newly promoted instance.
- C-** Create an AWS Lambda function to modify the application's AWS CloudFormation template to promote the replica, apply the template to update the stack, and point the application to the newly promoted instance Create an Amazon CloudWatch alarm to trigger this Lambda function after the failure event occurs
- D-** Store the Aurora endpoint in AWS Systems Manager Parameter Store Create an Amazon EventBridge (Amazon CloudWatch Events) event that detects the database failure and runs an AWS Lambda function to promote the replica instance and update the endpoint URL stored in AWS Systems Manager Parameter Store Code the application to reload the endpoint from Parameter Store if a database connection fails.

Answer:

A

Question 10

Question Type: MultipleChoice

A development team manages website deployments using AWS CodeDeploy blue/green deployments. The application is running on Amazon EC2 instances behind an Application Load Balancer in an Auto Scaling group.

When deploying a new revision, the team notices the deployment eventually fails, but it takes a long time to fail. After further inspection, the team discovers the AllowTraffic lifecycle event ran for an hour and eventually failed without providing any other information. The team wants to ensure failure notices are delivered more quickly while maintaining application availability even upon failure.

Which combination of actions should be taken to meet these requirements? (Select TWO.)

Options:

- A-** Change the deployment configuration to CodeDeployDefault.AllAtOnce to speed up the deployment process by deploying to all of the instances at the same time.
- B-** Create a CodeDeploy trigger for the deployment failure event and make the deployment fail as soon as a single health check failure is detected.
- C-** Reduce the HealthCheckIntervalSeconds and UnhealthyThresholdCount values within the target group health checks to decrease the amount of time it takes for the application to be considered unhealthy.
- D-** Use the appspec.yml file to run a script on the AllowTraffic hook to perform lighter health checks on the application instead of making CodeDeploy wait for the target group health checks to pass.
- E-** Use the appspec.yml file to run a script on the BeforeAllowTraffic hook to perform health checks on the application and fail the deployment if the health checks performed by the script are not successful.

Answer:

A, E

Question 11

Question Type: MultipleChoice

After a recent audit, a company decided to implement a new disaster recovery strategy for its Amazon S3 data and its MySQL database running on Amazon EC2. Management wants the ability to recover to a secondary AWS Region with an RPO under 5 seconds and a RTO under 1 minute.

Which actions will meet the requirements while MINIMIZING operational overhead? (Select TWO.)

Options:

- A-** Modify the application to write to both Regions at the same time when uploading objects to Amazon S3
- B-** Migrate the database to an Amazon Aurora multi-master in the primary and secondary Regions.
- C-** Migrate the database to Amazon RDS with a read replica in the secondary Region
- D-** Migrate to Amazon Aurora Global Database.
- E-** Set up S3 cross-Region replication with a replication SLA for the S3 buckets where objects are being put.

Answer:

A, E

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