

DumpsCafe

Amazon Web Services

SAP-C01

A woman with blonde hair, wearing a white business suit, is leaning over a desk and working on a laptop. She is smiling slightly and looking at the screen. The background is a bright, out-of-focus office environment.

**AWS Certified
Solutions Architect -
Professional**

Version: Demo

[Total Questions: 10]

Web: www.dumpscafe.com

Email: support@dumpscafe.com

IMPORTANT NOTICE

Feedback

We have developed quality product and state-of-art service to ensure our customers interest. If you have any suggestions, please feel free to contact us at feedback@dumpsafe.com

Support

If you have any questions about our product, please provide the following items:

- ➔ exam code
- ➔ screenshot of the question
- ➔ login id/email

please contact us at support@dumpsafe.com and our technical experts will provide support within 24 hours.

Copyright

The product of each order has its own encryption code, so you should use it independently. Any unauthorized changes will inflict legal punishment. We reserve the right of final explanation for this statement.

Exam Topic Breakdown

Exam Topic	Number of Questions
Topic 2 : Exam Pool B	5
Topic 1 : Exam Pool A	5
TOTAL	10

DumpsCafe

Topic 2, Exam Pool B

Question #:1 - (Exam Topic 2)

A development team is deploying new APIs as serverless applications within a company. The team is currently using the AWS Management Console to provision Amazon API Gateway, AWS Lambda, and Amazon DynamoDB resources. A solutions architect has been tasked with automating the future deployments of these serverless APIs.

How can this be accomplished?

- A. Use AWS CloudFormation with a Lambda-backed custom resource to provision API Gateway. Use the `MFS::DynamoDB::Table` and `AWS::Lambda::Function` resources to create the Amazon DynamoDB table and Lambda functions. Write a script to automate the deployment of the CloudFormation template.
- B. Use the AWS Serverless Application Model to define the resources. Upload a YAML template and application files to the code repository. Use AWS CodePipeline to connect to the code repository and to create an action to build using AWS CodeBuild. Use the AWS CloudFormation deployment provider in CodePipeline to deploy the solution.
- C. Use AWS CloudFormation to define the serverless application. Implement versioning on the Lambda functions and create aliases to point to the versions. When deploying, configure weights to implement shifting traffic to the newest version, and gradually update the weights as traffic moves over.
- D. Commit the application code to the AWS CodeCommit code repository. Use AWS CodePipeline and connect to the CodeCommit code repository. Use AWS CodeBuild to build and deploy the Lambda functions using AWS CodeDeploy. Specify the deployment preference type in CodeDeploy to gradually shift traffic over to the new version.

Answer: B

Question #:2 - (Exam Topic 2)

A company wants to migrate its data analytics environment from on-premises to AWS. The environment consists of two simple Node.js applications. One of the applications collects sensor data and loads it into a MySQL database. The other application aggregates the data into reports. When the aggregation jobs run, some of the load jobs fail to run correctly.

The company must resolve the data loading issue. The company also needs the migration to occur without interruptions or changes for the company's customers.

What should a solutions architect do to meet these requirements'?

- A. Set up an Amazon Aurora MySQL database as a replication target for the on-premises database. Create an Aurora Replica for the Aurora MySQL database, and move the aggregation jobs to run against the Aurora Replica. Set up collection endpoints as AWS Lambda functions behind a Network Load Balancer.

(NLB). and use Amazon RDS Proxy to write to the Aurora MySQL database. When the databases are synced, disable the replication job and restart the Aurora Replica as the primary instance. Point the collector DNS record to the NLB.

- B. Set up an Amazon Aurora MySQL database. Use AWS Database Migration Service (AWS DMS) to perform continuous data replication from the on-premises database to Aurora. Move the aggregation jobs to run against the Aurora MySQL database. Set up collection endpoints behind an Application Load Balancer (ALB) as Amazon EC2 instances in an Auto Scaling group. When the databases are synced, point the collector DNS record to the ALB. Disable the AWS DMS sync task after the cutover from on-premises to AWS.
- C. Set up an Amazon Aurora MySQL database. Use AWS Database Migration Service (AWS DMS) to perform continuous data replication from the on-premises database to Aurora. Create an Aurora Replica for the Aurora MySQL database and move the aggregation jobs to run against the Aurora Replica. Set up collection endpoints as AWS Lambda functions behind an Application Load Balancer (ALB) and use Amazon RDS Proxy to write to the Aurora MySQL database. When the databases are synced, point the collector DNS record to the ALB. Disable the AWS DMS sync task after the cutover from on-premises to AWS.
- D. Set up an Amazon Aurora MySQL database. Create an Aurora Replica for the Aurora MySQL database and move the aggregation jobs to run against the Aurora Replica. Set up collection endpoints as an Amazon Kinesis data stream. Use Amazon Kinesis Data Firehose to replicate the data to the Aurora MySQL database. When the databases are synced, disable the replication job and restart the Aurora Replica as the primary instance. Point the collector DNS record to the Kinesis data stream.

Answer: C

Question #:3 - (Exam Topic 2)

A company is planning to migrate an application from on-premises to AWS. The application currently uses an Oracle database and the company can tolerate a brief downtime of 1 hour when performing the switch to the new infrastructure. As part of the migration, the database engine will be changed to MySQL. A solutions architect needs to determine which AWS services can be used to perform the migration while minimizing the amount of work and time required.

Which of the following will meet the requirements?

- A. Use AWS SCT to generate the schema scripts and apply them on the target prior to migration. Use AWS DMS to analyse the current schema and provide a recommendation for the optimal database engine. Then, use AWS DMS to migrate to the recommended engine. Use AWS SCT to identify what embedded SQL code in the application can be converted and what has to be done manually.
- B. Use AWS SCT to generate the schema scripts and apply them on the target prior to migration. Use AWS DMS to begin moving data from the on-premises database to AWS. After the initial copy, continue to use AWS DMS to keep the databases in sync until cutting over to the new database. Use AWS SCT to identify what embedded SQL code in the application can be converted and what has to be done manually.
- C. Use AWS DMS to help identify the best target deployment between installing the database engine on Amazon EC2 directly or moving to Amazon RDS. Then, use AWS DMS to migrate to the platform. Use

AWS Application Discovery Service to identify what embedded SQL code in the application can be converted and what has to be done manually.

- D. Use AWS DMS to begin moving data from the on-premises database to AWS. After the initial copy, continue to use AWS DMS to keep the databases in sync until cutting over to the new database. Use AWS Application Discovery Service to identify what embedded SQL code in the application can be converted and what has to be done manually.

Answer: B

Question #:4 - (Exam Topic 2)

A company is processing videos in the AWS Cloud by using Amazon EC2 instances in an Auto Scaling group. It takes 30 minutes to process a video. Several EC2 instances scale in and out depending on the number of videos in an Amazon Simple Queue Service (Amazon SQS) queue.

The company has configured the SQS queue with a redrive policy that specifies a target dead-letter queue and a maxReceiveCount of 1. The company has set the visibility timeout for the SQS queue to 1 hour. The company has set up an Amazon CloudWatch alarm to notify the development team when there are messages in the dead-letter queue.

Several times during the day, the development team receives notification that messages are in the dead-letter queue and that videos have not been processed properly. An investigation finds no errors in the application logs.

How can the company solve this problem?

- A. Turn on termination protection for the EC2 instances.
- B. Update the visibility timeout for the SQS queue to 3 hours.
- C. Configure scale-in protection for the instances during processing.
- D. Update the redrive policy and set maxReceiveCount to 0.

Answer: A

Question #:5 - (Exam Topic 2)

A news company wants to implement an AWS Lambda function that calls an external API to receive new press releases every 10 minutes. The API provider is planning to use an IP address allow list to protect the API, so the news company needs to provide any public IP addresses that access the API. The company's current architecture includes a VPC with an internet gateway and a NAT gateway. A solutions architect must implement a static IP address for the Lambda function.

Which combination of steps should the solutions architect take to meet these requirements? (Select TWO.)

- A. Use the Elastic IP address that is associated with the NAT gateway for the IP address allow list.

- B. Assign an Elastic IP address to the Lambda function. Use the Lambda function's Elastic IP address for the IP address allow list.
- C. Configure the Lambda function to launch in the private subnet of the VPC.
- D. Configure the Lambda function to launch in the public subnet of the VPC.
- E. Create a transit gateway. Attach the VPC and the Lambda function to the transit gateway.

Answer: A C

DumpsCafe

Topic 1, Exam Pool A

Question #:6 - ([Exam Topic 1](#))

A company uses AWS Transit Gateway for a hub-and-spoke model to manage network traffic between many VPCs. The company is developing a new service that must be able to send data at 100 Gbps. The company needs a faster connection to other VPCs in the same AWS Region.

Which solution will meet these requirements?

- A. Establish VPC peering between the necessary VPCs. Ensure that all route tables are updated as required.
- B. Attach an additional transit gateway to the VPCs. Update the route tables accordingly.
- C. Create AWS Site-to-Site VPN connections that use equal-cost multi-path (ECMP) routing between the necessary VPCs.
- D. Create an additional attachment from the necessary VPCs to the existing transit gateway.

Answer: D

Question #:7 - ([Exam Topic 1](#))

A company is using AWS CodePipeline for the CI/CO of an application to an Amazon EC2 Auto Scaling group. All AWS resources are defined in AWS CloudFormation templates. The application artifacts are stored in an Amazon S3 bucket and deployed to the Auto Scaling group using instance user data scripts. As the application has become more complex, recent resource changes in the Cloud Formation templates have caused unplanned downtime.

How should a solutions architect improve the CI/CD pipeline to reduce the likelihood that changes in the templates will cause downtime?

- A. Adapt the deployment scripts to detect and report CloudFormation error conditions when performing deployments. Write test plans for a testing team to execute in a non-production environment before approving the change for production.
- B. Implement automated testing using AWS CodeBuild in a test environment. Use CloudFormation change sets to evaluate changes before deployment. Use AWS CodeDeploy to leverage blue/green deployment patterns to allow evaluations and the ability to revert changes, if needed.
- C. Use plugins for the integrated development environment (IDE) to check the templates for errors, and use the AWS CLI to validate that the templates are correct. Adapt the deployment code to check for error conditions and generate notifications on errors. Deploy to a test environment and execute a manual test plan before approving the change for production.
- D. Use AWS CodeDeploy and a blue/green deployment pattern with CloudFormation to replace the user data deployment scripts. Have the operators log in to running instances and go through a manual test plan to verify the application is running as expected.

Answer: B**Explanation**

<https://aws.amazon.com/blogs/devops/performing-bluegreen-deployments-with-aws-codedeploy-and-auto-scaling/>

When one adopts go infrastructure as code, we need to test the infrastructure code as well via automated testing, and revert to original if things are not performing correctly.

Question #:8 - ([Exam Topic 1](#))

A company has an application that sells tickets online and experiences bursts of demand every 7 days. The application has a stateless presentation layer running on Amazon EC2, an Oracle database to store unstructured data catalog information, and a backend API layer. The front-end layer uses an Elastic Load Balancer to distribute the load across nine On-Demand Instances over three Availability Zones (AZs). The Oracle database is running on a single EC2 instance. The company is experiencing performance issues when running more than two concurrent campaigns. A solutions architect must design a solution that meets the following requirements:

- Address scalability issues.
- Increase the level of concurrency.
- Eliminate licensing costs.
- Improve reliability.

Which set of steps should the solutions architect take?

- A. Create an Auto Scaling group for the front end with a combination of On-Demand and Spot Instances to reduce costs. Convert the Oracle database into a single Amazon RDS reserved DB instance.
- B. Create an Auto Scaling group for the front end with a combination of On-Demand and Spot Instances to reduce costs. Create two additional copies of the database instance, then distribute the databases in separate AZs.
- C. Create an Auto Scaling group for the front end with a combination of On-Demand and Spot Instances to reduce costs. Convert the tables in the Oracle database into Amazon DynamoDB tables.
- D. Convert the On-Demand Instances into Spot Instances to reduce costs for the front end. Convert the tables in the Oracle database into Amazon DynamoDB tables.

Answer: C**Explanation**

Combination of On-Demand and Spot Instances + DynamoDB.

Question #:9 - ([Exam Topic 1](#))

A team collects and routes behavioral data for an entire company. The company runs a Multi-AZ VPC environment with public subnets, private subnets, and an internet gateway. Each public subnet also contains a NAT gateway. Most of the company's applications read from and write to Amazon Kinesis Data Streams. Most of the workloads are in private subnets.

A solutions architect must review the infrastructure. The solutions architect needs to reduce costs and maintain the function of the applications. The solutions architect uses Cost Explorer and notices that the cost in the EC2-Other category is consistently high. A further review shows that NatGateway-Bytes charges are increasing the cost in the EC2-Other category.

What should the solutions architect do to meet these requirements?

- A. Enable VPC Flow Logs. Use Amazon Athena to analyze the logs for traffic that can be removed. Ensure that security groups are blocking traffic that is responsible for high costs.
- B. Add an interface VPC endpoint for Kinesis Data Streams to the VPC. Ensure that applications have the correct IAM permissions to use the interface VPC endpoint.
- C. Enable VPC Flow Logs and Amazon Detective. Review Detective findings for traffic that is not related to Kinesis Data Streams. Configure security groups to block that traffic.
- D. Add an interface VPC endpoint for Kinesis Data Streams to the VPC. Ensure that the VPC endpoint policy allows traffic from the applications.

Answer: D

Explanation

<https://docs.aws.amazon.com/vpc/latest/privatelink/vpc-endpoints-access.html>

<https://aws.amazon.com/premiumsupport/knowledge-center/vpc-reduce-nat-gateway-transfer-costs/>

VPC endpoint policies enable you to control access by either attaching a policy to a VPC endpoint or by using additional fields in a policy that is attached to an IAM user, group, or role to restrict access to only occur via the specified VPC endpoint.

Question #:10 - (Exam Topic 1)

A company is launching a new web application on Amazon EC2 instances. Development and production workloads exist in separate AWS accounts.

According to the company's security requirements, only automated configuration tools are allowed to access the production account. The company's security team wants to receive immediate notification if any manual access to the production AWS account or EC2 instances occurs.

Which combination of actions should a solutions architect take in the production account to meet these requirements? (Select THREE.)

- A. Turn on AWS CloudTrail logs in the application's primary AWS Region. Use Amazon Athena to query

the logs for AwsConsoleSignIn events.

- B. Configure Amazon Simple Email Service (Amazon SES) to send email to the security team when an alarm is activated.
- C. Deploy EC2 instances in an Auto Scaling group. Configure the launch template to deploy instances without key pairs. Configure Amazon CloudWatch Logs to capture system access logs. Create an Amazon CloudWatch alarm that is based on the logs to detect when a user logs in to an EC2 instance.
- D. Configure an Amazon Simple Notification Service (Amazon SNS) topic to send a message to the security team when an alarm is activated.
- E. Turn on AWS CloudTrail logs for all AWS Regions. Configure Amazon CloudWatch alarms to provide an alert when an AwsConsoleSignin event is detected.
- F. Deploy EC2 instances in an Auto Scaling group. Configure the launch template to delete the key pair after launch. Configure Amazon CloudWatch Logs for the system access logs. Create an Amazon CloudWatch dashboard to show user logins over time.

Answer: C D E

About dumpsafe.com

dumpsafe.com was founded in 2007. We provide latest & high quality IT / Business Certification Training Exam Questions, Study Guides, Practice Tests.

We help you pass any IT / Business Certification Exams with 100% Pass Guaranteed or Full Refund. Especially Cisco, CompTIA, Citrix, EMC, HP, Oracle, VMware, Juniper, Check Point, LPI, Nortel, EXIN and so on.

View list of all certification exams: [All vendors](#)

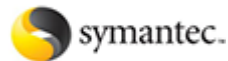
Microsoft



CITRIX



ORACLE



vmware

We prepare state-of-the-art practice tests for certification exams. You can reach us at any of the email addresses listed below.

- ➔ Sales: sales@dumpsafe.com
- ➔ Feedback: feedback@dumpsafe.com
- ➔ Support: support@dumpsafe.com

Any problems about IT certification or our products, You can write us back and we will get back to you within 24 hours.