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Question 1

A company is using tagging to allocate AWS costs. The company has Amazon EC2 instances that run in Auto Scaling groups. The Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the EC2 instances are being created without the appropriate cost center tags. A DevOps engineer must ensure that the new EBS volumes are properly tagged.

What is the MOST efficient solution that meets this requirement?

Options:

A- Create a lifecycle hook on the autoscaling:EC2_INSTANCE_TERMINATING instance state that attaches the cost center tags to the EBS volumes.

B- Update the Auto Scaling group launch template to include the cost center tags for EBS volumes.

C- Update the Auto Scaling group to include the cost center tags. Set the PropagateAtLaunch property to true.

D- Use Tag Editor to search for EBS volumes that are missing the tags and to add the cost center tags to the volumes.

Answer:

B

Question 2

A company's legacy application uses IAM user credentials to access resources in the company's AWS Organizations organization. A DevOps engineer needs to ensure new IAM users cannot be created unless the employee creating the IAM user is on an exception list.

Which solution will meet these requirements?

Options:

A- Attach an Organizations SCP with an explicit deny for all iam:CreateAccessKey actions with a condition that excludes StringNotEquals for aws:username with a value of the exception list.

B- Attach an Organizations SCP with an explicit deny for all iam:CreateUser actions with a condition that includes StringEquals for aws:username with a value of the exception list.

C- Create an Amazon EventBridge (Amazon CloudWatch Events) rule with a pattern that matches the iam:CreateAccessKey action with an AWS Lambda function target. The function will check the user name account against an exception list. If the user is not in the exception list, the function will delete the user.

D- Create an Amazon EventBridge (Amazon CloudWatch Events) rule with a pattern that matches the iam:CreateUser action with an AWS Lambda function target. The function will check the user name and account against an exception list. If the user is not in the exception list, the function will delete the user.

Answer:

B

Question 3

Question Type: **MultipleChoice**

A company is deploying a new application that uses Amazon EC2 instances. The company needs a solution to query application logs and AWS account API activity. Which solution will meet these requirements?

Options:

A- Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon CloudWatch Logs. Configure AWS CloudTrail to deliver the API logs to Amazon S3. Use CloudWatch to query both sets of logs.

B- Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon CloudWatch Logs. Configure AWS CloudTrail to deliver the API logs to CloudWatch Logs. Use CloudWatch Logs Insights to query both sets of logs.

C- Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon Kinesis. Configure AWS CloudTrail to deliver the API logs to Kinesis. Use Kinesis to load the data into Amazon Redshift. Use Amazon Redshift to query both sets of logs.

D- Use the Amazon CloudWatch agent to send logs from the EC2 instances to Amazon S3. Use AWS CloudTrail to deliver the API logs to Amazon S3. Use Amazon Athena to query both sets of logs in Amazon S3.

Question 4

A company is required to collect user consent to a privacy agreement. An application is deployed in six AWS Regions with two in North America, two in Europe, and two in Asia with a user base of 20-30 million users. The company needs to read and write data related to each user's response, and ensure the responses are available in all six Regions.

What solution will satisfy these requirements while MINIMIZING latency?

Options:

A- Implement Amazon Aurora Global Database in each of the six Regions.

B- Implement Amazon DocumentDB (with MongoDB compatibility) in each of the six Regions.

C- Implement Amazon DynamoDB global tables in each of the six Regions.

D- Implement Amazon ElastiCache for Redis replication group in each of the six Regions.

Answer:

C

Question 5

Question Type: **MultipleChoice**

A company runs several applications across multiple AWS accounts in an organization in AWS Organizations. Some of the resources are not tagged properly, and the company's finance team cannot determine which costs are associated with which applications. A DevOps engineer must remediate this issue and prevent this issue from happening in the future.

Which combination of actions should the DevOps engineer take to meet these requirements? (Select TWO.)

Options:

A- Activate the user-defined cost allocation tags in each AWS account.

B- Create and attach an SCP that requires a specific tag.

C- Define each line of business (LOB) in AWS Budgets. Assign the required tag to each resource.

D- Scan all accounts with Tag Editor. Assign the required tag to each resource.

E- Use the budget report to find untagged resources. Assign the required tag to each resource.

Answer:

C, D

Question 6

Question Type: MultipleChoice

A company requires an RPO of 2 hours and an RTO of 10 minutes for its data and application at all times An application uses a MySQL database and Amazon EC2 web servers. The development learn needs a strategy for failover and disaster recovery

Which combination of deployment strategies will meet these requirements? {Select TWO)

Options:

A- Create an Amazon Aurora cluster in one Availability Zone across multiple Regions as the data store Use Aurora's automatic recovery capabilities in the event of a discluster.

B- Create an Amazon Aurora global database m two Regions as the data store In the event of a failure, promote the secondary Region as the master for the application

C- Create an Amazon Aurora multi-master cluster across multiple Regions as the data store Use an Network Load Balancer to balance the database traffic in different Regions.

D- Set up the application in two Regions and use Amazon Route 53 failover-based routing that points to the Application Load Balancers in both Regions Use health checks to determine the availability in a given Region. Use Auto Scaling groups in each Region to adjust capacity based on demand

E- Set up the application m two Regions and use a multi-Region Auto Scaling group behind Application Load Balancers to manage the capacity based on demand in the event of a disaster, adjust the Auto Scaling group's desired instance count to increase baseline capacity in the failover Region.

Answer:

B, E

Question 7

Question Type: MultipleChoice

A company is developing a web application's infrastructure using AWS CloudFormation. The database engineering team maintains the database resources in a CloudFormation template, and the software development team maintains the web application resources in a separate CloudFormation template As the scope of the application grows, the software development team needs to use resources maintained by the database engineering team However, both teams have their own review and lifecycle management processes that they want to keep Both teams also require resource-level change-set reviews The software development team would like to deploy changes to this template using their CI/CD pipeline.

Which solution will meet these requirements?

Options:

A- Create a stack export from the database CloudFormation template and import those references into the web application CloudFormation template

B- Create a CloudFormation nested stack to make cross-stack resource references and parameters available in both stacks.

C- Create a CloudFormation stack set to make cross-stack resource references and parameters available in both stacks

D- Create input parameters in the web application CloudFormation template and pass resource names and IDs from the database stack.

Answer:

A

Question 8

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 pout 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 9

A company requires that its internally facing web application be nighty available The architecture is made up of one Amazon EC2 web server instance and one NAT instance that provides outbound internet access for updates and accessing public data

Which combination of architecture adjustments should the company implement to achieve high availability? (Select TWO.)

Options:

A- Add the NAT instance to an EC2 Auto Scaling group that spans multiple Availability Zones Update the route tables

B- Create additional EC2 instances spanning multiple Availability Zones Add an Application Load Balancer to split the load between them

C- Configure an Application Load Balancer in front of the EC2 instance Configure Amazon CloudWatch alarms to recover the EC2 instance upon host failure

D- Replace the NAT instance with a NAT gateway in each Availability Zone Update the route tables

E- Replace the NAT instance with a NAT gateway that spans multiple Availability Zones Update the route tables

Answer:

A, D

Question 10

A company updated the AWS CloudFormation template tor a critical business application. The stack update process Tailed due to an error in me updated template, and CloudFormation automatically began the stack rollback process Later, a DevOps engineer found the application was still unavailable, and that the stack was in the UPDATE_ROLLBACK_FALED state

Which combination of actions will allow the stack rollback to complete successful/? (Select TWO)

Options:

A- Attach the AWSCloudFormationFulAccess IAM policy to the CloudFormation role

B- Automatically heal the stack resources using CloudFormation drift detection.

C- Issue a ContinueUpdateRolback command from the CloudFormation console or AWS CLI

D- Manually the resources to match the expectations of the stack.

E- Update the existing CloudFormation stack using the original template

Answer:

A, B