

Domain: Design Secure Architectures

You have implemented AWS Cognito services to require users to sign in and sign up to your app through social identity providers like Facebook, Google, etc. Your marketing department wants users to anonymously try out the app because the current log-in requirement is excessive, which may reduce the demand for products and services offered through the app. What would you suggest to the marketing department in this regard?

- A. It's too much of a security risk to allow unauthenticated users access to the app.
- B. Cognito Identity supports guest users for the ability to enter the app and have limited access.
- C. A second version of the app will need to be offered for unauthenticated users.
- D. This is possible only if we remove the authentication from everywhere.

Review Attempt

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Your app uses AWS Cognito Identity for authentication and stores user profiles in a User Pool. To expand the availability and ease of signing in to the app, your team is requesting advice on allowing the use of OpenID Connect (OIDC) identity providers as additional means of authenticating users and saving the user profile information. What is your recommendation on OIDC identity providers?

-  A. This is supported, along with social and SAML based identity providers.
- B. This is not supported, only social identity providers can be integrated into User Pools
- C. If you want OIDC identity providers, then you must include SAML and social-based support as well
- D. It's too much effort to add non-Cognito authenticated user information to a User Pool

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Explanation:

Correct Answer - A

- Option A is correct. OpenID Connect (OIDC) identity providers (IdPs) (like Salesforce or Ping Identity) are supported in Cognito, along with social and SAML based identity providers. You can add an OIDC IdP to your user pool in the AWS Management Console, with the AWS CLI, or with the user pool API method `CreateIdentityProvider`.
- Option B is incorrect. Cognito supports more than just social identity providers, including OIDC, SAML, and its own identity pools.
- Option C is incorrect. You can add any combination of federated types. You don't have to add them all.
- Option D is incorrect. While there is additional coding to develop this, the effort is most likely not too great to add the feature.

Domain: Design High-Performing Architectures

Your company currently has a web distribution hosted using the AWS CloudFront service. The IT Security department has confirmed that the application using this web distribution now falls under the scope of PCI (Payment Card Industry) compliance. What are the necessary steps to be followed before auditing? (SELECT TWO)

A. Enable CloudFront access logs.

B. Enable Cache in CloudFront.

C. Use AWS CloudTrail to capture requests sent to the CloudFront API.

D. Enable VPC Flow Logs

 show Answer

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A company has applications running in multiple VPCs. These applications require interaction between Amazon S3 buckets and DynamoDB. The company's security policy requires that communication should be secure and should not go over the public internet.

How does a solutions architect design this solution to meet these requirements?

- A. Create VPC Gateway Endpoints for S3 and DynamoDB and update route tables for all the availability zones.
- B. Use the NAT Gateway and Internet Gateway for all the egress communication to these AWS services.
- C. Set up VPC peering and use VPC gateway endpoint for S3 and interface endpoint for DynamoDB to communicate over AWS network.
- D. Set up a VPC interface endpoint for both S3 and DynamoDB to communicate over the AWS network.

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Domain: Design High-Performing Architectures

A company consists of 50 plus AWS accounts. Each account has multiple VPCs with egress internet connectivity using NAT gateway per Availability Zone (AZ). A solution architect has been asked to redesign the network architecture that will reduce costs, and manage egress traffic, and the growing needs of new accounts.

Which solution meets the requirements?

- A. Create an egress VPC for outbound internet traffic. Use VPC peering between AWS accounts' VPCs and connect to a set of redundant NAT gateways in the egress VPC.
- B. Create a Transit Gateway in one central AWS account that will work as a hub and spoke model to other accounts VPCs using VPC attachments. Setup an egress VPC for egress traffic with redundant Nat Gateways.
- C. Create an egress VPC for outbound internet traffic. Use AWS Private links between AWS accounts' VPCs and connect to a set of redundant NAT gateways in the egress VPC.
- D. Create a Transit Gateway in one central AWS account that will work as a hub and spoke model to other accounts VPCs using VPN attachments. Set up a Central VPC for egress traffic with redundant Nat Gateways.

Review Attempt

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Your organization must perform big data analysis to transform data and store the result in the AWS S3 bucket. They have implemented the solution using AWS Lambda due to its zero-administrative maintenance and cost-effective nature. However, in very few cases, the execution is getting abruptly terminated after 15 minutes. They would like to get a notification in such scenarios. What would you do?

- A. Setup timer in the code and send a notification when the timer reaches 900 seconds.
- B. Configure SES for failures under the Configuration option in the Lambda function.
- C. Setup the ERROR_NOTIFY environment variable with an email address. Lambda function has an inbuilt feature to send an email during max memory and time out terminations using this environment variable.
-  D. Configure Dead-letter Queue and send a notification to SNS topic

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You are a solutions architect working for a social media company that provides a place for civil discussion of political and news-related events. Due to the ever-changing regulatory requirements and restrictions placed on social media apps that provide these services, you need to build your app in an environment where you can change your implementation instantly without updating code. You have chosen to build the REST API endpoints used by your social media app user interface code using Lambda. How can you securely configure your Lambda functions without updating code? (Select TWO)

- A. Pass environment variables to your Lambda function via the request header sent to your API Gateway methods.
- B. Configure your Lambda functions to use key configuration.
- C. Use encryption helpers
- D. Use Lambda layers
- E. Use Lambda aliases

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Your company has a MySQL database deployed in an on-premise datacenter. You start using AWS Database Migration Service (AWS DMS) to migrate the database to AWS RDS. You have a replication instance in DMS to run the migration task. Which of the following options assign permissions that determine who is allowed to manage AWS DMS resources?

- A. Transport Layer Security (TLS) connections between AWS DMS and local datacenter.
- B. AWS Key Management Service (AWS KMS) encryption used by the replication instance.
- C. AWS Identity and Access Management (IAM) policies.
- D. Network Control Lists (NCLs) in VPC subnets.



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Domain: Design Cost-Optimized Architectures

Your company stores a large amount of archive data in expensive on-premises storage systems. You need to move the data to low-cost storage such as Amazon S3 Glacier. Which of the following tools is the most suitable to simplify and automate the data transfer from on-premises to S3 Glacier?

A. AWS DataSync

B. Server Migration Service

C. Database Migration Service

D. Direct Connect

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Domain: Design High-Performing Architectures

You are working in a financial company, and you need to establish the network connections between on-premises data centers and AWS VPCs. The connectivity needs to be secure with IPsec connections. A predictable and high-performance network is also required over private lines. Which of the following methods would you select?

- A. AWS Direct Connect + VPN
 - B. AWS Managed VPN
 - C. AWS Direct Connect
 - D. Software VPN

Domain: Design Secure Architectures

Your IT Supervisor is worried about users accidentally deleting objects from an S3 bucket. Which of the following can help prevent accidental deletion of objects in an S3 bucket? (Select Three)

- A. Enable encryption for the S3 bucket.
 - B. Enable MFA Delete on the S3 bucket.
 - C. Enable Versioning on the S3 bucket.
 - D. Restrict access to the bucket using IAM user policies

 hide Answer

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Domain: Design Secure Architectures

A company has been using AWS cloud services for six months and has just finished a security review.

Which of the following is considered a best practice in the security pillar of the well-architected framework?

- A. Using the root user to create new IAM users and assign administrative privileges following the least access principle
 - B. Monitoring using CloudWatch.
 - C. Assigning Private IP address ranges to VPCs that do not overlap.
 - D. Designing the system with elasticity to meet changes in demand.

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Domain: Design Cost-Optimized Architectures

A company has a Redshift Cluster defined in AWS. The IT Operations team has ensured that both automated and manual snapshots are in place. Since the cluster will run for a couple of years, Reserved Instances have been purchased. There has been recent concern about the cost being incurred by the cluster. Which of the following steps should be carried out to minimize the costs being incurred by the cluster?

- A. Delete the manual snapshots.
- B. Set the retention period of the automated snapshots to 35 days.
- C. Choose to use Spot Instances instead of Reserved Instances.
- D. Choose to use Instance store volumes to store the cluster data.

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Domain: Design Resilient Architectures

A website is hosted on two EC2 instances that sit behind an Elastic Load Balancer. The website's response time has been slowed down drastically, and fewer orders are placed by the customers due to the wait time. By troubleshooting, it showed that one of the EC2 instances had failed and only one instance is running now. What is the best course of action to prevent this from happening in the future?

- A. Change the instance size to the maximum available to compensate for the failure.
 - B. Use CloudWatch to monitor the VPC Flow Logs for the VPC, the instances are deployed in.
 - C. Configure the ELB to perform health checks on the EC2 instances and implement auto-scaling.
 - D. Replicate the existing configuration in several regions for failover.

Domain: Design Resilient Architectures

A company currently hosts a lot of data on its On-premises location. They want to start storing backups of these data with low latency access to data on AWS. How could this be achieved most efficiently?

- A. Create EBS Volumes and store the data.
 - B. Create EBS Snapshots and store the data.
 - C. Make use of Storage Gateway Stored volumes.
 - D. Make use of Amazon Glacier.

Domain: Design Resilient Architectures

For a new application, you need to build up the logic tier and data storage tier in AWS. The whole architecture needs to be serverless so that designers can quickly deploy the application without the need to manage servers. Which of the following AWS services would you choose?

- A. Logic tier: "Amazon Cognito + Lambda". Data Storage tier: "Amazon RDS"
 - B. Logic tier: "API Gateway + Lambda". Data Storage tier: "Amazon DynamoDB"
 - C. Logic tier: "API Gateway + Lambda". Data Storage tier: "Amazon Redshift"
 - D. Logic tier: "Elastic Beanstalk + EC2". Data Storage tier: "Amazon Aurora"

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A Solutions Architect is designing a solution to store and archive corporate documents. The Architect has determined that Amazon Glacier is the right solution. Data has to be retrieved within 3-5 hrs as directed by the management.

Which feature in Amazon Glacier could be helpful to meet this requirement and ensure cost-effectiveness?

- A. Vault Lock
- B. Expedited retrieval
- C. Bulk retrieval
- D. Standard retrieval

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Your application has two tiers in AWS: the frontend layer and the backend layer. The frontend includes an Auto Scaling group deployed in a public subnet. The backend Auto Scaling group is located in another private subnet. The backend instances should only allow the incoming traffic from the frontend ASG through a custom port. For the backend security group, how would you configure the source in its inbound rule?

- A. Configure the frontend security group ID as the source.
- B. Configure the public subnet IP range as the source.
- C. Configure the frontend Auto Scaling group ARN as the source.
- D. Configure the frontend Auto Scaling launch configuration as the source.

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A company has a business-critical three-tier, highly available web portal in AWS. The web tier runs on different types of Amazon EC2 families. The application tier runs on one set of EC2 families, and the database tier runs on Amazon RDS. The Manager has asked the Solutions Architect to reduce the costs of this architecture without any impact on the company's business. Which of the following options is the most cost-effective while maintaining reliability and high availability?

- A. Use Compute Savings Plans for the web tier, EC2 Instance Savings Plans for the application tier, and Reserved Instances for the database tier.
- B. Use Compute Savings Plans for the web tier, EC2 Instance Savings Plans for the application tier and the database tier.
- C. Use EC2 Instance Savings Plans for the web tier, Compute Savings Plans for the application tier and the database tier.
- D. Use EC2 Instance Savings Plans for the web tier, Compute Savings Plans for the application tier, and OnDemand Instances for the database tier.

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A small company started using EBS backed EC2 instances for the cost improvements over their own running servers. The company's policy is to stop the development servers over the weekend and restart them next week. The first time when the servers were brought back, none of the developers were able to SSH into them. What did the server most likely overlook?

- A. The associated Elastic IP address has changed and the SSH configurations were not updated.
- B. The security group for a stopped instance needs to be reassigned after the start.
- C. The public IPv4 address has changed on the server start and the SSH configurations were not updated.
- D. EBS backed EC2 instances could not be stopped and were automatically terminated.

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A company plans to deploy a business-critical application on Amazon EC2 instances. This application should be scalable in a clustered environment. It supports high-performance computing (HPC) with consistency latency and highest throughput.

How can this be achieved by meeting all the requirements above?

- A. Configure the application on EC2 instances with enhanced networking enabled using the Elastic Network Adapter (ENA).
- B. Configure the application on EC2 instances with enhanced networking enabled using the Elastic Fabric Adapter (EFA) 
- C. Configure the application on EC2 instances with enhanced networking enabled using the Elastic Network Interface (ENI).
- D. Configure the application on EC2 instances with enhanced networking enabled using the Elastic Network (EN).

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Domain: Design High-Performing Architectures

You have a set of IIS Servers running on EC2 Instances. You want to collect and process the log files generated from these IIS Servers. Which service would be ideal for utilizing the Big Data analytics in this scenario?

- A. Amazon S3 for storing the log files and Amazon EMR for processing the log files.
- B. Amazon S3 for storing the log files and EC2 Instances for processing the log files.
- C. Amazon EC2 for storing and processing the log files.
- D. Amazon DynamoDB to store the logs and EC2 for running custom log analysis scripts.

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Domain: Design Resilient Architectures

You need to ensure that the new objects being uploaded to an S3 bucket should be available in another region also, due to the criticality of the data hosted in the S3 bucket. How could you achieve this in the easiest way possible?

- A. Enable Cross-Region Replication for the bucket.
 - B. Write a script to copy the objects to another bucket in the destination region.
 - C. Create an S3 snapshot in the destination region.
 - D. Enable versioning that will copy the objects to the destination region.

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Domain: Design Cost-Optimized Architectures

A storage solution is required in AWS to store videos uploaded by the user. After accessing these videos frequently for a period of a month, these videos can be deleted. How could this be implemented in the most cost-effective manner?

- A. Use EBS Volumes to store the videos. Create a script to delete the videos after a month.
- B. Configure object expiration lifecycle policy rule on the S3 bucket and the policy will take care of deleting the videos on the completion of 30 days.
- C. Store the videos in Amazon Glacier and then use Lifecycle Policies.
- D. Store the videos using Stored Volumes. Create a script to delete the videos after a month.

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You are working as an AWS Architect for a global media firm. They have web servers deployed on EC2 instances across multiple regions. For audit purposes, you have created a CloudTrail trail that delivers the CloudTrail event log files to the S3 bucket.

This trail applies to all regions & delivers the CloudTrail event log files to the S3 buckets in the EU-Central region. During last year's audit, auditors have raised a query on the integrity of log files that are delivered to the S3 buckets and raised a Non-Compliance flag against them. Which feature could help you to gain compliance from Auditors for given issue?

- A. Use Amazon SSE-S3 encryption for the CloudTrail log file while storing it to S3 buckets.
- B. Use Amazon SSE-KMS encryption for CloudTrail log file while storing it to S3 buckets.
- C. Use an S3 bucket policy to grant access to only Security head for S3 buckets having CloudTrail log files.
- D. Enable the CloudTrail log file integrity validation feature.

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You work in the media industry and have deployed a web application on a large EC2 instance where users can upload photos to your website. This web application must be able to call the S3 API to function properly. Where would you store your API credentials while maintaining the maximum level of security?

- A. Save the API credentials to your PHP files.
- B. Don't save your API credentials. Instead, create an IAM role and assign that role to an EC2 instance.
- C. Save your API credentials in a public Github repository.
- D. Pass API credentials to the instance using instance user data.

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Domain: Design High-Performing Architectures

You are a solutions architect working for a financial services firm that operates applications in the hybrid cloud model. You have applications running on EC2 instances in your VPC that communicate with resources in your on-prem data center. You have a workload on an EC2 instance in one subnet and a transit gateway association in a different subnet. Also, these two subnets are associated with different NACLs. You have set up Network Access Control List (NACL) rules to control the traffic to and from your EC2 instances and transit gateway.

Which of the following is true about the NACL rules for traffic from your EC2 instances to the transit gateway?

- A. Outbound rules use the source IP address to evaluate traffic from the instances to the transit gateway.
- B. Outbound rules use the destination IP address to evaluate traffic from the instances to the transit gateway.
- C. Outbound rules are not evaluated for the transit gateway subnet
- D. Inbound rules use the destination IP address to evaluate traffic from the transit gateway to the instances.

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Domain: Design High-Performing Architectures

You are working as an AWS Architect for a start-up company. They have a two-tier production website. Database servers are spread across multiple Availability Zones.

You have configured Auto Scaling Group for these database servers with a minimum of 2 instances & a maximum of 6 instances. During post-peak hours, you observe some data loss. Which feature needs to be configured additionally to avoid future data loss (and copy data before instance termination)?



- A. Modify the cooldown period to complete custom actions before the instance terminates.
- B. Add lifecycle hooks to Auto Scaling group.
- C. Customize Termination policy to complete data copy before termination.
- D. Suspend Terminate process that will avoid data loss.

Review Attempt

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Domain: Design Resilient Architectures

You have an application running in us-west-2 that requires 6 EC2 Instances running at all times. With 3 Availability Zones in the region viz. us-west-2a, us-west-2b, and us-west-2c, which of the following deployments provides fault tolerance if ONE Availability Zone in us-west-2 becomes unavailable? (SELECT TWO.)

- A. 2 EC2 Instances in us-west-2a, 2 EC2 Instances in us-west-2b, and 2 EC2 Instances in us-west-2c
- B. 3 EC2 Instances in us-west-2a, 3 EC2 Instances in us-west-2b, and no EC2 Instances in us-west-2c
- C. 4 EC2 Instances in us-west-2a, 2 EC2 Instances in us-west-2b, and 2 EC2 Instances in us-west-2c
- D. 6 EC2 Instances in us-west-2a, 6 EC2 Instances in us-west-2b, and no EC2 Instances in us-west-2c
- E. 3 EC2 Instances in us-west-2a, 3 EC2 Instances in us-west-2b, and 3 EC2 Instances in us-west-2c

Review Attempt

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Domain: Design Cost-Optimized Architectures

There is an application that allows a manufacturing site to upload files. Each uploaded file of 2500 MB needs to extract metadata, which can take a few seconds per file for processing. The frequency at which the uploading happens is unpredictable. Sometimes there can be no upload for hours, followed by several files being uploaded concurrently.

Which architecture will address this workload in the most cost-efficient manner?

- A. Use a Kinesis Data Delivery Stream to store the file. Use Lambda for processing.
- B. Use an SQS queue to store the file to be accessed by a fleet of EC2 Instances.
- C. Store the file in an EBS volume, which can then be accessed by another EC2 Instance for processing.
- D. Store the file in an S3 bucket. Use Amazon S3 event notification to invoke a Lambda function for file processing.

Review Attempt

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You are part of an IT team who have created a streaming application. The application is hosted in two separate regions, us-east-1(N Virginia) and ap-south-1 (Mumbai). Your application recently became very popular, and now has users from all around the world. However, these new users have been experiencing high latency in the application. How can you solve this problem, keeping in mind that possible failovers in the app need to be solved very quickly?

- A. Enable a DNS-based traffic management solution with Geolocation route policies in Route53.
- B. Enable AWS WAF to securely serve your application content to the nearest Edge Locations to the users.
- C. Enable Global Accelerator endpoint for your two regions.
- D. Enable Direct Connect.

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For which of the following scenarios should a Solutions Architect consider using Elastic Beanstalk? (Select TWO)

- A. A Java web application using Amazon Linux EC2 instances
- B. An Enterprise Data Warehouse
- C. Configuring AWS resources using Chef
- D. A worker environment with an SQS queue and an Auto Scaling group
- E. A management task run once on nightly basis

 show Answer

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Domain: Design Cost-Optimized Architectures

You need to install a 150 GB volume on an EC2 Instance for a new application. While the data in the volume is used less frequently with small peaks in the morning and evening, which storage type would be the most cost-effective option for the given requirement?

- A. Amazon EBS provisioned IOPS SSD.
 - B. Amazon EBS Cold HDD.
 - C. Amazon EBS General Purpose SSD.
 - D. Amazon EFS.

Review Attempt							
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Domain: Design Cost-Optimized Architectures

You are working as an AWS consultant for a start-up company. They have developed a web application, that requires a lot of memory, for their employees to share files with external vendors securely. They created an AutoScaling group for the web servers that require two m4.large EC2 instances running at all times, scaling up to a maximum of twelve instances. Post-deployment of the application, a huge rise in cost was observed. Due to a limited budget, the CTO has requested your advice to optimize the usage of instances in the Auto Scaling groups. What do you suggest for reducing the costs and minimizing the risk of adverse impact on the performance?

- A. Create an Auto Scaling group with t2.micro On-Demand instances.
- B. Create an Auto Scaling group with a mix of On-Demand & Spot Instance. Select the On-Demand base as zero. Above On-Demand base, select 100% of On-Demand instance & 0% of Spot Instance.
- C. Create an Auto Scaling group with all Spot Instance.
- D. Create an Auto Scaling group with a mix of On-Demand & Spot Instance. Select the On-Demand base as 2. Above On-Demand base, select 20% of On-Demand instance & 80% of Spot Instance.

Review Attempt

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Domain: Design Secure Architectures

You are working as an AWS Architect for a start-up company. The company has a two-tier production website on AWS with web servers in the front end & database servers in the back end. The third-party firm has been looking after the operations of these database servers. They need to access these database servers in private subnets on the SSH port. As per standard operating procedure provided by the Security team, all access to these servers should be over a jumpbox accessible from internet. What will be the best solution to meet this requirement?

- A. Deploy Bastion hosts in Private Subnet
- B. Deploy NAT Instance in Private Subnet
- C. Deploy NAT Instance in Public Subnet
- D. Deploy Bastion hosts in Public Subnet

Review Attempt

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You are working for a start-up company that develops mobile gaming applications using AWS resources. For creating AWS resources, the project team is using CloudFormation Templates. The Project Team is concerned about the changes made in EC2 instance properties by the Operations Team, apart from parameters specified in CloudFormation Templates. To observe changes in AWS EC2 instance, you advise using CloudFormation Drift Detection. After Drift detection, when you check drift status for all AWS EC2 instances, drift for certain property values with default values for resource properties is not displayed. What would you do to include these resource properties to be captured in CloudFormation Drift Detection?

- A. Run CloudFormation Drift Detection on individual stack resources instead of entire CloudFormation stack.
- B. Explicitly set the property value, which can be the same as the default value.
- C. Manually check these resources as this is not supported in CloudFormation Drift Detection.
- D. Assign Read permission to CloudFormation Drift Detection to determine drift.

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Domain: Design Resilient Architectures

You are responsible for performing a migration from your company's on-premise data to the AWS cloud. You have about 400 GB of data stored in an NFS. One requirement of this migration is to transfer some of this data to AWS EFS and the other part to S3. Which is the easiest to use and with the most cost-effective solution?

- A. Use AWS Storage gateway.
 - B. Use S3 Transfer Acceleration.
 - C. Use AWS DataSync.
 - D. Use AWS Database Migration Service

Domain: Design High-Performing Architectures

A company hosts a popular web application that connects to an Amazon RDS MySQL DB instance running in a default VPC private subnet with the default NACL settings created by AWS. The web servers must be accessible only to customers on HTTPS connections, and the database must only be accessible to web servers in a public subnet. Which solution would meet these requirements without impacting other applications? (SELECT TWO)

- A. Create a network ACL on the Web Server's subnets, allow HTTPS port 443 inbound and specify the source as 0.0.0.0/0.
- B. Create a Web Server security group that allows HTTPS port 443 inbound traffic from anywhere (0.0.0.0/0) and apply it to the Web Servers.
- C. Create a DB Server security group that allows MySQL port 3306 inbound and specify the source as the Web Server security group.
- D. Create a network ACL on the DB subnet, allow MySQL port 3306 inbound for Web Servers and deny all outbound traffic.
- E. Create a DB Server security group that allows HTTPS port 443 inbound and specify the source as a Web Server security group.

Review Attempt

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You lead a team to develop a new web application in AWS EC2. The application will have a large number of users globally. For a great user experience, this application requires very low network latency and jitter. If the network speed is not fast enough, you will lose customers. Which tool would you choose to improve the application performance? (Select TWO.)

- A. AWS VPN
- B. AWS Global Accelerator
- C. Direct Connect
- D. API Gateway
- E. CloudFront



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Domain: Design Resilient Architectures

A Solutions Architect is designing a highly scalable system to track records. These records must remain available for immediate download for up to three months and then must be deleted. What is the most appropriate decision for this use case?

- A. Store the files in Amazon EBS and create a Lifecycle Policy to remove files after 3 months.
- B. Store the files in Amazon S3 and create a Lifecycle Policy to remove files after 3 months.
- C. Store the files in Amazon Glacier and create a Lifecycle Policy to remove files after 3 months.
- D. Store the files in Amazon EFS and create a Lifecycle Policy to remove files after 3 months.

Review Attempt							
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Domain: Design High-Performing Architectures

A consulting firm repeatedly builds large architectures for their customers using AWS resources from several AWS services, including IAM, Amazon EC2, Amazon RDS, DynamoDB and Amazon VPC. The consultants have architecture diagrams for each of their architectures and are frustrated that they cannot use them to create their resources automatically.

Which service should provide immediate benefits to the organization?

- A. AWS Elastic Beans
 - B. AWS CloudFormat
 - C. AWS CodeBuild
 - D. AWS CodeDeploy

Review Attempt							
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Domain: Design Secure Architectures

The security policy of an organization requires an application to encrypt data before writing to the disk. Which solution should the organization use to meet this requirement?

A. AWS KMS API

B. AWS Certificate Manager

C. API Gateway with STS

D. IAM Access Key

Review Attempt

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Domain: Design Resilient Architectures

You have developed a new web application on AWS for a real estate firm. It has a web interface where real estate employees upload photos of newly constructed houses in S3 buckets. Prospective buyers log in to the website and access photos. The marketing team has initiated an intensive marketing event to promote new housing schemes which will lead to customers who frequently access these images. As this is a new application, you have no projection of traffic on the S3 bucket. You need an S3 storage class that can automatically optimize the storage costs with changing access patterns. Which of the following is a recommended storage solution to meet this requirement?

- A. Use One Zone-IA storage class to store all images.
 - B. Use Standard-IA to store all images.
 - C. Use S3 Intelligent-Tiering storage class.
 - D. Use Standard storage class and use Storage class analytics to identify & move objects using lifecycle policies.

Review Attempt							
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Domain: Design High-Performing Architectures

A company is developing a web application to be hosted in AWS. This application needs a data store for session data.

As an AWS Solution Architect, what would you recommend as an ideal option to store session data? (SELECT TWO)

A. CloudWatch

B. DynamoDB

C. Elastic Load Balancing



D. ElastiCache

E. Storage Gateway

Review Attempt

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Domain: Design High-Performing Architectures

An application needs to have a relational Datastore hosted in AWS. The following requirements are in place for the Datastore:

- a) The initial storage capacity of 8 TB
- b) The ability to accommodate a database growth of 8GB per day
- c) The ability to have 4 Read Replicas

Which of the following Datastore is the best for this requirement?

A. DynamoDB



B. Amazon S3

C. Amazon Aurora

D. ElastiCache

Review Attempt

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Domain: Design High-Performing Architectures

You are creating a new architecture for a financial firm. The architecture consists of some EC2 instances with the same type and size (M5.large). In this architecture, all the EC2 mostly communicate with each other. Business people have asked you to create this architecture keeping in mind low latency as a priority. Which placement group option could you suggest for the instances?

- A. Partition Placement Group
- B. Clustered Placement Group
- C. Spread Placement Group
- D. Enhanced Networking Placement Group



Review Attempt

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Domain: Design High-Performing Architectures

A company has a media processing application deployed in a local data center. Its file storage is built on a Microsoft Windows file server. The application and file server need to be migrated to AWS. You want to set up the file server in AWS quickly. The application code should continue working to access the file systems. Which method should you choose to create the file server?

- A. Create a Windows File Server from Amazon WorkSpaces.
- B. Configure a high performance Windows File System in Amazon EFS.
- C. Create FSx for Windows File Server.
- D. Configure a secure enterprise storage through Amazon WorkDocs.

Review Attempt

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Domain: Design Secure Architectures

There is a requirement to get the source IP addresses that access resources in a private subnet. Which of the following cost-optimized service could be used to fulfill this purpose?

- A. AWS Trusted Advisor
 - B. VPC Flow Logs
 - C. Use CloudWatch metrics
 - D. Use CloudTrail

Domain: Design Resilient Architectures

You are part of the IT team of a small car manufacturer company. The company is starting to move its On-Premise resources to the cloud. The Marketing department was the first department to migrate its applications to the cloud. Now the finance team wants to do the same. Each department should have its own AWS account but you need one management account to pay for the bills of all the AWS accounts. What do you suggest to solve this?

- A. Create a different VPC for the Finance Department and limit their access to resources with IAM Roles and Policies.
- B. Use AWS Control Tower.
- C. Use AWS Organizations to manage both AWS accounts.
- D. Use AWS Cost Explorer to divide the bills and use IAM policies to limit the access to resources.

Review Attempt

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Domain: Design High-Performing Architectures

Your team is developing a high-performance computing (HPC) application. The application resolves complex, compute-intensive problems and needs a high-performance and low-latency Lustre file system. You need to configure this file system in AWS at a low cost. Which method is the most suitable?

- A. Create a Lustre file system through Amazon FSx.
 - B. Launch a high performance Lustre file system in Amazon EBS.
 - C. Create a high-speed volume cluster in EC2 placement group.
 - D. Launch the Lustre file system from AWS Marketplace.

Domain: Design Cost-Optimized Architectures

An EC2 instance in the private subnet needs access to the S3 bucket placed in the same region as that of the EC2 instance. The EC2 instance needs to upload and download bigger files to the S3 bucket frequently.

As an AWS Solutions Architect, what quick and cost-effective solution would you suggest to your customers? You need to consider that the EC2 instances are present in the private subnet, and the customers do not want their data to be exposed over the internet.



- A. Place the S3 bucket in another public subnet of the same region and create a VPC peering connection to this private subnet where the EC2 instance is placed. The traffic to upload and download files will go through secure Amazon's private network.
- B. Create an IAM role having access over the S3 service and assign it to the EC2 instance.
- C. Create a VPC endpoint for S3, use your route tables to control which instances can access resources in Amazon S3 via the endpoint. The traffic to upload and download files will go through the Amazon private network.
- D. A private subnet can always access S3 bucket/ service through the NAT Gateways or NAT instances, so there is no need for additional setup.

Review Attempt

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Domain: Design Resilient Architectures

An application needs to access resources from another AWS account of another VPC in the same region. Which of the following ensure that the resources can be accessed as required?

- A. Establish a NAT instance between both accounts.
- B. Use a VPN between both accounts.
- C. Use a NAT Gateway between both accounts.
- D. Use VPC Peering between both accounts.

Review Attempt

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Domain: Design High-Performing Architectures

You host a static website in an S3 bucket, and there are global clients from multiple regions. You want to use an AWS service to store cache for frequently accessed content so that the latency is reduced and the data transfer rate increases. Which of the following options would you choose?

- A. Use AWS SDKs to horizontally scale parallel requests to the Amazon S3 service endpoints.
- B. Create multiple Amazon S3 buckets and put Amazon EC2 and S3 in the same AWS Region.
- C. Enable Cross-Region Replication to several AWS Regions to serve customers from different locations.
- D. Configure CloudFront to deliver the content in the S3 bucket.

[show Answer](#)

Review Attempt

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Domain: Design Resilient Architectures

An application consists of the following VPC architecture:

- a. EC2 Instances in multiple AZ's behind an ELB
- b. EC2 Instances are launched via an Auto Scaling Group.
- c. There is one NAT Gateway for all AZ's instances to download the updates from the Internet.

What is a bottleneck in the architecture based on the availability?

A. The EC2 Instances

B. The ELB

C. The NAT Gateway

D. The Auto Scaling Group

Review Attempt

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Domain: Design High-Performing Architectures

You have an application hosted in an Auto Scaling group, and an application load balancer distributes traffic to the ASG. You want to add a scaling policy that keeps the average aggregate CPU utilization of the Auto Scaling group to be 60 percent. The capacity of the Auto Scaling group should increase or decrease based on this target value. Which scaling policy does it belong to?

- A. Target tracking scaling policy.
- B. Step scaling policy.
- C. Simple scaling policy.
- D. Scheduled scaling policy.



Review Attempt

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Domain: Design High-Performing Architectures

An application hosted on EC2 Instances has its promotional campaign due to start in 2 weeks. The performance team performs some analysis based on the historical data and informs you the number of instances that are required for the campaign. You need to make sure that the Auto Scaling group is properly configured with the provided number of instances. What should be done to fulfill this requirement?

- A. Migrate the application from the Auto Scaling group to a Lambda function so that the application scales automatically by AWS.
- B. Configure Scheduled scaling in the Auto Scaling Group.
- C. Configure a Lambda function that scales up the ASG when the activity starts and scales down when the activity ends.
- D. Configure Static scaling for the Auto Scaling Group.

Review Attempt

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Domain: Design Resilient Architectures

Currently, a company uses EBS snapshots to back up their EBS Volumes. As a part of the business continuity requirement, these snapshots need to be made available in another region. How could this be achieved?

- A. Directly create the snapshot in another region.
- B. Create a snapshot and copy it to another region.
- C. Copy the snapshot to an S3 bucket and then enable Cross-Region Replication for the bucket.
- D. Copy the EBS Snapshot to an EC2 instance in another region.

Review Attempt

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Domain: Design High-Performing Architectures

A company has an application hosted in AWS. This application consists of EC2 Instances that sit behind an ELB. The following are the requirements from an administrative perspective:

- a) Ensure that notifications are sent when the read requests go beyond 1000 requests per minute.
- b) Ensure that notifications are sent when the latency goes beyond 10 seconds.
- c) Monitor all AWS API request activities on the AWS resources.

Which of the following can be used to satisfy these requirements? (SELECT TWO)

- A. Use CloudTrail to monitor the API Activity.
- B. Use CloudWatch Logs to monitor the API Activity.
- C. Use CloudWatch Metrics for the metrics that need to be monitored as per the requirement and set up an alarm activity to send out notifications when the metric reaches the set threshold limit.
- D. Use custom log software to monitor the latency and read requests to the ELB.



Review Attempt

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Domain: Design Resilient Architectures

You are part of the IT sector at the finance department of your company. Your organization has implemented AWS Organizations for each internal department, and you have access to the master account. You need to manage Amazon EC2 Dedicated Hosts centrally, and share the host's instance capacity with other AWS accounts in the AWS Organizations. How can you accomplish this in the easiest way?

- A. Use AWS Resource Access Manager to manage the EC2 Dedicated Hosts centrally and share them with other member accounts.
- B. Use service control policies to share the EC2 Dedicated Hosts in the member accounts.
- C. Use AWS Control Tower.
- D. Create IAM policies with conditions and assign them to users in every member account.

Review Attempt

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Domain: Design Resilient Architectures

There is a multi-region website hosted in AWS EC2 under an ELB. Route 53 is used to manage its DNS record. The website might get a lot of traffic over the next couple of weeks. If the application experiences a natural disaster in the region during the time, what should be used to reduce potential disruption to users?

- A. Use an ELB to divert traffic to an Infrastructure hosted in another region.
- B. Use an ELB to divert traffic to an Infrastructure hosted in another AZ.
- C. Use CloudFormation to create backup resources in another AZ.
- D. Use Route53 to route requests to another instance in a different region

[show Answer](#)

Review Attempt

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Domain: Design High-Performing Architectures

A database, hosted using the Amazon RDS service, is getting many database queries. It has now become a bottleneck for the associating application. Which action would ensure that the database is not a performance bottleneck?

- A. Setup a CloudFront distribution in front of the database.
- B. Setup an ELB in front of the database.
- C. Setup ElastiCache in front of the database.
- D. Setup SNS in front of the database.

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Domain: Design Resilient Architectures

A database is being hosted using the Amazon RDS service. This database will be deployed in production and needs to be highly available. Which of the following could be used to achieve this requirement?

- A. Use Multi-AZ for the RDS instance to ensure that a secondary database is created in another region.
- B. Use the Read Replica feature to create another instance of the DB in another region.
- C. Use Multi-AZ for the RDS instance to ensure that a secondary database is created in another Availability Zone.
 
- D. Use the Read Replica feature to create another instance of the DB in another Availability Zone.

Review Attempt

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Domain: Design Resilient Architectures

You need to launch several EC2 instances to run Cassandra. There are large distributed and replicated workloads in Cassandra and you plan to launch instances using EC2 placement groups. The traffic should be distributed evenly across several partitions and each partition should contain multiple instances. Which of the following placement groups would you use to achieve the requirement?

- A. Cluster placement group
- B. Spread placement group
- C. Partition placement group
- D. Network placement group

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Domain: Design Resilient Architectures

You are creating several EC2 instances for a new application. The instances need to communicate with each other. For a better performance of the application, both low network latency and high network throughput are required for the EC2 instances. All instances should be launched in a single availability zone. How would you configure this?

- A. Launch all EC2 instances in a placement group using a Cluster placement strategy.
- B. Auto assign a public IP when launching the EC2 instances.
- C. Launch EC2 instances in an EC2 placement group and select the Spread placement strategy.
- D. When launching the EC2 instances, select an instance type that supports enhanced networking.

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Domain: Design Secure Architectures

A company hosts 5 web servers in AWS. They want to ensure that multiple values for a DNS query should be returned and traffic routed to multiple IP addresses. In addition, you want to associate your routing records with a Route 53 health check. Which routing policy should be used to fulfill this requirement?

- A. Simple
- B. Weighted
- C. Multivalue Answer
- D. Latency

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