

Q592. A company hosts multiple production applications. One of the applications consists of resources from Amazon EC2 AWS Lambda Amazon RDS Amazon Simple Notification Service (Amazon SNS). And Amazon Simple Queue Service (Amazon SQS) across multiple AWS Regions. All company resources are tagged with a tag name of "application" and a value that corresponds to each application. A solutions architect must provide the quickest solution for identifying all of the tagged components. Which solution meets these requirements?

- A. Use AWS CloudTrail to generate a list of resources with the application tag
- B. Use the AWS CLI to query each service across all Regions to report the tagged components
- C. Run a query in Amazon CloudWatch Logs Insights to report on the components with the application tag
- D. Run a query with the AWS Resource Groups Tag Editor to report on the resources globally with the application tag

正确答案 D

Q593. An application team has started using Amazon EMR to run batch jobs using datasets located in Amazon S3. During the initial testing of the workload a solutions architect notices that the account is starting to accrue NAT gateway data processing costs. How can the learn optimize the cost of the workload?

- A. Detach the NAT gateway from the subnet where the Amazon EMR clusters are running
- B. Replace the NAT gateway with a customer gateway
- C. Replace the NAT gateway with an S3 VPC endpoint
- D. Configure a network ACL on the subnets where the Amazon EMR clusters are running to open access to Amazon S3

正确答案 C

Q594. An entertainment company is using Amazon DynamoDB to store media metadata. The application is read intensive and experiencing delays. The company does not have staff to handle additional operational overhead and needs to improve the performance efficiency of DynamoDB without reconfiguring the application. What should a solutions architect recommend to meet this requirement?

- A. Use Amazon ElastiCache for Redis
- B. Use Amazon DynamoDB Accelerate (DAX)
- C. Replicate data by using DynamoDB global tables
- D. Use Amazon ElastiCache for Memcached with Auto Discovery enabled

正确答案 B

Q595. An image hosting company uploads its large assets to Amazon S3 Standard buckets. The company uses multipart upload in parallel by using S3 APIs and overwrites if the same object is uploaded again. For the first 30 days after upload the objects will be accessed frequently. The objects will be used less frequently after 30 days but the access patterns for each object will be inconsistent. The company must optimize its S3 storage costs while maintaining high availability and resiliency of stored assets. Which combination of actions should a solutions architect recommend to meet these requirements? (Select TWO.)

- A. Move assets to S3 Intelligent-Tiering after 30 days
- B. Configure an S3 Lifecycle policy to clean up incomplete multipart uploads
- C. Configure an S3 Lifecycle policy to clean up expired object delete markers

D. Move assets to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days

E. Move assets to S3 One Zone infrequent Access (S3 One Zone-IA) after 30 days

正确答案 A, C

Q596. A company wants to deploy an additional Amazon Aurora MySQL DB cluster for development purposes. The cluster will be used several times a week for a few minutes upon to debug production query issues. The company wants to keep overhead low for this resource. Which solution meets the company's requirements MOST cost-effectively?

A. Purchas a Reserved Instance for the DB instances.

B. Run the DB instances on Aurora Serverless

C. Create a stop/start schedule for the DB instances.

D. Create an AWS Lambda function to stop DB instances if there are no active connections

正确答案 D

Q597. A development team is creating an event-based application that uses AWS Lambda functions. Events will be generated when files are added to an Amazon S3 bucket. The development team currently has Amazon Simple Notification Service (Amazon SNS) configured as the event target from Amazon S3. What should a solution architect do to process the events from Amazon S3 in a scalable way?

A. Create an SNS subscription that processes the event in Amazon Elastic Container Service (Amazon ECS) before the event runs in Lambda.

B. Create an SNS subscription that processes the event in Amazon Elastic Kubernetes Service (Amazon EKS) before the event runs in Lambda.

- C. Create an SNS subscription that sends the event to AWS Server Migration Service (AWS SQS). Configure the SQS queue to trigger a Lambda function.
- D. Create an SNS subscription that sends the event to AWS Server Migration Service (AWS SMS). Configure the Lambda function to poll from the SMS event

正确答案 C

Q598. A company requires operating system permission on a relational database server. What should a solutions architect suggest as a configuration for a highly available database architecture?

- A. Multiple Amazon EC2 instances in a database replication configuration that uses two Availability Zones
- B. A standalone Amazon EC2 instance with a selected database installed
- C. Amazon RDS in a Multi-AZ configuration with Provisioned IOPS
- D. Multiple Amazon EC2 instances in a replication configuration that uses a placement group

正确答案 A

Q599. An application running on AWS Lambda requires an API key to access a third-party service. The key must be stored securely with audited access to the Lambda function only. What is the MOST secure way to store the key?

- A. As an object in Amazon S3.
- B. As a secure string in AWS Systems Manager Parameter Store.
- C. Inside a file on an Amazon EBS volume attached to the Lambda function
- D. Inside a secrets file stored on Amazon EFS

正确答案 B

Q600. A company runs a photo processing application that needs to frequently upload and download pictures from Amazon S3 buckets that are located in the same AWS Region. A solutions architect has noticed an increased cost in data transfer fees and needs to implement a solution to reduce these costs. How can the solutions architect meet this requirement?

- A. Deploy Amazon API Gateway into a public subnet and adjust the route table to route S3 calls through It.
- B. Deploy a NAT gateway into a public subnet and attach an endpoint policy that allows access to the S3 buckets.
- C. Deploy the application into a public subnet and allow it to route through an internet gateway to access the S3 Buckets
- D. Deploy an S3 VPC gateway endpoint into the VPC and attach an endpoint policy that allows access to the S3 buckets.

正确答案 D

Q601. A company wants to run workload-Intensive queries from its 10 TB Amazon Aurora MySQL DB cluster. Temporary schema changes need to be made to the database to generate monthly reports. However, these changes are not desired for the ongoing production cluster. The company must choose the most operationally efficient solution to meet these requirements. Which solution should the company choose?

- A. Create a database clone and use the clone for reporting.
- B. Create Aurora Read Replicas and use them for reporting
- C. Export the needed tables to Amazon S3Query the data by using Amazon

D. Take a snapshot of the production DB clusterRestore the snapshot to a new database for reporting.

正确答案 B

Q602. A company Is creating a new application that will store a large amount of data. The data will be analyzed hourly and will be modified by several Amazon EC2 Linux instances that are deployed across multiple Availability Zones. The needed amount of storage space will continue to grow for the next 6 months Which storage solution should a solutions architect recommend to meet these requirements?

A. Store the data in Amazon S3 GlacierUpdate the S3 Glacier vault policy to allow access to the application instances.

B. Store the data in an Amazon Elastic Block Store (Amazon EBS) volume Mount the EBS volume on the application instances.

C. Store the data in an amazon Elastic File System (Amazon EFS) file system. Mount the file system on the application instances

D. Store the data in an Amazon Elastic Block Store (Amazon ESS) Provisioned IOPS volume shared between the application instances

正确答案 C

Q603. A company is deploying a production portal application on AWS. The database tier has structured data. The company requires a solution that is easily manageable and highly available. How can these requirements be met?

A. Deploy the database on multiple Amazon EC2 instances backed by Amazon Elastic Block Store (Amazon EBS) across multiple Availability Zones.

B. Use Amazon RDS with a multiple Availability Zone option

C. Use Amazon RDS with a single Availability Zone option and schedule periodic database snapshots.

D. Use Amazon DynamoDB

正确答案 B

Q604. A company wants to reduce its Amazon S3 storage costs in its production environment without impacting durability or performance of the stored objects. What is the FIRST step the company should take to meet these objectives?

A. Enable Amazon Macie on the business-critical S3 buckets to classify the sensitivity of the objects

B. Enable S3 analytics to identify S3 buckets that are candidates for transitioning to S3 Standard- Infrequent Access (S3 Standard-IA)

C. Enable versioning on all business-critical S3 buckets.

D. Migrate the objects in all S3 buckets to S3 Intelligent-Tiering

正确答案 D

Q605. A company wants to improve the availability of an existing firewall. To meet the compliance requirements of the applications hosted in the VPC. The company's security team is using a proprietary firewall running on Amazon EC2 instances. All internet traffic flows through the primary firewall. When the primary firewall goes down, the team manually changes the VPC route table so that it uses a secondary firewall running in a different Availability Zone. Which strategies should a solutions architect use to improve the availability of the firewall? (Select TWO.)

A. Create an EC2 gateway endpoint In the VPC where the firewall is hosted.

- B. Create an EC2 interface endpoint in the VPC where the firewall is hosted.
- C. Enable enhanced networking on the EC2 instance running the proprietary firewall
- D. Deploy a scheduled AWS Lambda function in the VPC to monitor the primary firewall and change the route table to use the secondary firewall in case of failure.
- E. Monitor the firewall instance health in Amazon EventBridge (Amazon CloudWatch Events). Trigger an event rule to restart the primary firewall upon a detected failure.

正确答案 D, E

Q606. A company needs guaranteed Amazon EC2 capacity in three specific Availability Zones in a specific AWS Region for an upcoming event that will last 1 week. What should the company do to guarantee the EC2 capacity?

- A. Purchase Reserved Instances that specify the Region needed.
- B. Create an On-Demand Capacity Reservation that specifies the Region needed.
- C. Purchase Reserved Instances that specify the Region and three Availability Zones needed.
- D. Create an On-Demand Capacity Reservation that specifies the Region and three Availability Zones needed.

正确答案 D

Q607. A company sells ringtones created from clips of popular songs. The files containing the ringtones are stored in Amazon S3 Standard and are at least 123 KB in size. The company has millions of files but downloads are infrequent for ringtones older than 90 days. The company needs to

save money on storage while keeping the most accessed files readily available for its users. Which action should the company take to meet these requirements MOST cost-effectively?

- A. Configure S3 Standard-infrequent Access (S3 Standard-IA) storage for the initial storage tier of the objects
- B. Move the files to S3 Intelligent-Tiering and configure it to move objects to a less expensive storage tier after 90 days
- C. Configure S3 inventory to manage objects and move them to S3 Standard-infrequent Access (S3 Standard-IA) after 90 days
- D. Implement an S3 Lifecycle policy that moves the objects from S3 Standard to S3 Standard- Infrequent Access (S3 Standard-IA) after 90 days

正确答案 D

Q608. A company's security policy requires that all AWS API activity in its AWS accounts be recorded for periodic auditing. The company needs to ensure that AWS CloudTrail is enabled on all of its current and future AWS accounts using AWS Organizations. Which solution is MOST secure?

- A. At the organization's root define and attach a service control policy (SCP) that permits enabling CloudTrail only
- B. Create IAM groups in the organization's master account as needed Define and attach an IAM policy to the groups that prevents users from disabling CloudTrail
- C. Organize accounts into organizational units (OUs) At the organization's root, define and attach a service control policy (SCP) that prevents users from disabling CloudTrail
- D. Add all existing accounts under the organization's root Define and attach a service control policy (SCP) to every account that prevents users from disabling CloudTrail

正确答案 D

Q609. An application running on AWS generates audit logs of operational activities. Compliance requirements mandate that the application retain the logs for 5 years. How can these requirements be met?

- A. Save the logs in an Amazon S3 bucket and enable MFA Delete on the bucket
- B. Save the logs in an Amazon Elastic File System (Amazon EFS) volume and use Network File System version 4 (NFSv4) locking with the volume
- C. Save the logs in an Amazon S3 Glacier vault and define a vault lock policy
- D. Save the logs in an Amazon Elastic Block Store (Amazon EBS) volume and take monthly snapshots

正确答案 C

解析：

Amazon Glacier, which enables long-term storage of mission-critical data, has added Vault Lock. This new feature allows you to lock your vault with a variety of compliance controls that are designed to support such long-term records retention.

Q610. A company needs to use its on-premises LDAP directory service to authenticate its users to the AWS Management Console. The directory service is not compatible with Security Assertion Markup Language (SAML). Which solution meets these requirements?

- A. Enable AWS Single Sign-On between AWS and the on-premises LDAP
- B. Create an IAM policy that uses AWS credentials and integrate the policy into LDAP

- C. Set up a process that rotates the IAM credentials whenever LDAP credentials are updated.
- D. Develop an on-premises custom identity broker application or process that uses AWS Security Token Service (AWS STS) to get short-lived credentials

正确答案 A

Q611. A company receives data from different sources and implements multiple applications to consume this data. There are many short-running jobs that run only on the weekend. The data arrives in batches rather than throughout the entire weekend. The company needs an environment on AWS to ingest and process this data while maintaining the order of the transactions. Which combination of AWS services meets these requirements in the MOST cost-effective manner?

- A. Amazon Kinesis Data Streams with AWS Lambda
- B. Amazon Kinesis Data Streams with Amazon EC2 Auto Scaling
- C. Amazon Simple Queue Service (Amazon SQS) with AWS Lambda
- D. Amazon Simple Queue Service (Amazon SQS) with Amazon EC2 Auto Scaling

正确答案 A

Q612. A company is designing a cloud communications platform trial is driven by APIs. The application is hosted on Amazon EC2 instances behind a Network Load Balancer (NLB). The company uses Amazon API Gateway to provide external users with access to the application through APIs. The company wants to protect the platform against web exploits like SQL Injection and also wants to detect and mitigate large, sophisticated DDoS attacks. Which combination of solutions provides the MOST protection? (Select TWO.)

- A. Use AWS WAF to protect the NLB

- B. Use AWS Shield Advanced with the NLB
- C. Use AWS WAF to protect Amazon API Gateway
- D. Use Amazon GuardDuty with AWS Shield Standard
- E. Use AWS Shield Standard with Amazon API Gateway

正确答案 B, C

Q613. A company has multiple AWS accounts with applications deployed in the us-west-2 Region. Application logs are stored within Amazon S3 buckets in each account. The company wants to build a centralized log analysts solution that uses a single S3 bucket. Logs must not leave us-west-2 and the company wants to incur minimal operational overhead. Which solution meets these requirements and is MOST cost-effective?

- A. Create an S3 Lifecycle policy that copies the objects from one of the application S3 buckets to the centralized S3 bucket
- B. Use S3 Same-Region Replication to replicate logs from the S3 buckets to another S3 bucket in us-west-2. Use this S3 bucket for log analysis
- C. Write a script that uses the PutObject API operation every day to copy the entire contents of the buckets to another S3 bucket in us-west-2. Use this S3 bucket for log analysis
- D. Write AWS Lambda functions in these accounts that are triggered every time logs are delivered to the S3 buckets (s3 ObjectCreated. * event) Copy the logs to another S3 bucket in us-west-2. Use this S3 bucket for log analysis

正确答案 A

Q614. A company sleeps a cluster of Amazon EC2 instances over a weekend. The costs decrease, but they do not drop to zero. Which resources could still be generating costs? (Select TWO.)

- A. Elastic IP addresses
- B. Data transfer out
- C. Regional data transfers
- D. Amazon Elastic Block Store (Amazon EBS) volumes
- E. AWS Auto Scaling

正确答案 A, D

Q615. A customer has a service based out of Oregon, US and Paris, France. The application stores data in an Amazon S3 bucket located in Oregon. That data is updated frequently. The Paris office is experiencing slow response times when retrieving objects. What should a solutions architect do to resolve the slow response times for the Paris office?

- A. Set up an S3 bucket based in Paris, and enable Cross-Region Replication from the Oregon bucket to the Paris bucket.
- B. Create an Application Load Balancer that load balances data retrieval between the Oregon S3 bucket and a new Paris S3 bucket.
- C. Create an Amazon CloudFront distribution with the bucket located in Oregon as the origin and set the maximum TTL setting for the cache behavior to 0.
- D. Set up an S3 bucket based in Paris, and enable a lifecycle management rule to transition data from the Oregon bucket to the Paris bucket.

正确答案 A

Q616. A prediction process requires access to a trained model that is stored in an Amazon S3 bucket. The process takes a few seconds to process an image and make a prediction. The process is not overly resource-intensive does not require any specialized hardware, and takes

less than 512 MB of memory to run. What is the MOST effective compute solution for this use case?

- A. Amazon Elastic Container Service (Amazon ECS)
- B. Amazon EC2 Spot instances
- C. AWS Lambda functions
- D. AWS Elastic Beanstalk

正确答案 C

Q617. A solutions architect is designing a solution for a dynamic website, "example.com," that is deployed in two AWS Regions: Tokyo, Japan and Sydney, Australia. The architect wants to ensure that users located in Australia are directed to the website deployed in the Sydney AWS Region and users located in Japan are directed to the website in the Tokyo AWS Region when they browse to "example.com." Which service should the architect use to achieve this goal with the LEAST administrative effort?

- A. Amazon CloudFront with geolocation routing
- B. Amazon Route 53
- C. Application Load Balancer
- D. Network Load Balancer deployed across multiple regions

正确答案 B

Q618. A development team is deploying a new product on AWS and is using AWS Lambda as part of the deployment. The team allocates 512 MB of memory for one of the Lambda functions. With this memory allocation, the function is completed in 2 minutes. The function runs millions of times monthly, and the development team is concerned about cost. The team

conducts tests to see how different Lambda memory allocations affect the cost of the function. Which steps will reduce the Lambda costs for the product? (Select TWO.)

- A. Increase the memory allocation for this Lambda function to 1,024 MB if this change causes the execution time of each function to be less than 1 minute
- B. Increase the memory allocation for this Lambda function to 1.024 MB If this change causes the execution time of each function to be less than 90 seconds.
- C. Reduce the memory allocation for this ambda function to 256 MB if this change causes the execution time of each function to be less than 4 minutes.
- D. Increase the memory allocation for this Lambda function to 2,048 MB If this change causes the execution time of each function to be less than 1 minute.
- E. Reduce the memory allocation for this Lambda function to 256 MB if this change causes the execution time of each function to be less than 5 minutes.

正确答案 A, C

Q619. An IAM user made several configuration changes to AWS resources in their company's account during a production deployment last week. A solutions architect learned that a couple of security group rules are not configured as desired. The solutions architect wants to confirm which IAM user was responsible for making changes. Which service should the solutions architect use to find the desired information?

- A. Amazon GuardDuty
- B. Amazon Inspector
- C. AWS CloudTrail

D. AWS Config

正确答案 D

Q620. A company manages its own Amazon EC2 instances that run MySQL databases. The company is manually managing replication and scaling as demand increases or decreases. The company needs a new solution that simplifies the process of adding or removing compute capacity to or from its database tier as needed . The solution also must offer improved performance, scaling and durability with minimal effort from operations. Which solution meets these requirements?

- A. Migrate the databases to Amazon Aurora Serverless for Aurora MySQL
- B. Migrate the databases to Amazon Aurora Serverless for Aurora PostgreSQL
- C. Combine the databases into one larger MySQL databaseRun the larger database on larger EC2 instances
- D. Create an EC2 Auto Scaling group for the database tier Migrate the existing databases to the new environment.

正确答案 A

Q621. A company is developing a new mobile app. The company must implement proper traffic filtering to protect its Application Load Balancer (ALB) against common application-level attacks, such as cross-site scripting or SQL injection. The company has minimal infrastructure and operational staff. The company needs to reduce its share of the responsibility in managing, updating and securing servers for its AWS environment. What should a solutions architect recommend to meet these requirements?

- A. Configure AWS WAF rules and associate them with the ALB

- B. Deploy the application using Amazon S3 with public hosting enabled.
- C. Deploy AWS shield Advanced and add the ALB as protected resources
- D. Create a new ALB that directs traffic to an Amazon EC2 instance running a third-party firewall, which then passes the traffic to the current ALB

正确答案 A

Q622. A company has an AWS account used for software engineering. The AWS account has access to the company's on-premises data center through a pair of AWS Direct Connect connections. All non-VPC traffic routes to the virtual private gateway. A development team recently created an AWS Lambda function through the console. The development team needs to allow the function to access a database that runs in a private subnet in the company's data center. Which solution will meet these requirements?

- A. Configure the Lambda function to run in the VPC with the appropriate security group.
- B. Set up a VPN connection from AWS to the data center. Route the traffic from the Lambda function through the VPN
- C. Update the route tables in the VPC to allow the Lambda function to access the on-premises data center through direct connect.
- D. Create an Elastic IP address. Configure the Lambda function to send traffic through the Elastic IP address without an elastic network interface.

正确答案 C

Q623. A solution architect is designing an application that will allow business users to upload objects to Amazon S3. The solution needs to maximize object durability. Objects also must be readily available at

any time and for any length of time. Users will access objects frequently within the first 30 days after the objects are uploaded, but users are much less likely to access objects that are older than 30 days. Which solution meets these requirements Most cost-effectively?

- A. Store all the objects in S3 Standard with an S3 Lifecycle rule to transition the object to S3 Glacier after 30 days.
- B. Store all the objects in S3 Standard with an S3 Lifecycle rule to transition the object to S3 Standard- infrequent Access (S3 Standard-IA) after 30 days.
- C. Store all the objects in S3 Standard with an S3 Lifecycle rule to transition the object to S3 Zone- infrequent Access (S3 Zone-IA) after 30 days.
- D. Store all the objects in S3 intelligent-Tiering with an S3 Lifecycle rule to transition the object to S3 Standard-infrequent Access (S3 Standard-IA) after 30 days.

正确答案 D

Q624. A developer has an application that uses an AWS Lambda function to upload files to Amazon S3 and needs the required permissions to perform the task. The developer already has an IAM user with valid IAM credentials required for Amazon S3. What should a solutions architect do to grant the permissions?

- A. Add required IAM permissions in the resource policy of the Lambda function.
- B. Create a signed request using the existing IAM credential in the Lambda function.
- C. Create a new IAM user and use the existing IAM credentials in the Lambda function

D. Create an IAM execution role with the required permissions and attach the IAM role to the Lambda function

正确答案 D

Q625. A solutions architect needs to design a centralized logging solution for a group of web applications running on Amazon EC2 instances. The solution requires minimal development effort due to budget constraints. What should the architect recommend?

A. Create a crontab job script in each instance to push the logs regularly to Amazon S3.

B. Install and configure Amazon CloudWatch Logs agent in the Amazon EC2 instances

C. Enable Amazon EventBridge (Amazon CloudWatch Events) in the AWS Management Console.

D. Enable AWS Cloud Trail to map all API Calls invoked by the applications

正确答案 B

Q626. A developer has a script to generate daily reports that users previous. The script consistently complete in under 10 minutes. The developer needs to automate the process in a cost effective manner. Which combination of services should the developer use? (Select two)

A. AWS Lambda

B. AWS CloudTrail

C. Cron on an Amazon EC2 instance

D. Amazon EC2 On-Demand instance with user data

E. Amazon EventBridge (Amazon CloudWatch Event)

正确答案 A, B

Q627. A development team runs monthly resource-intensive tests on its general purpose Amazon RDS (or MySQL DB instance with Performance insights enabled. The testing lasts for 48 hours once a month and is the only process that uses the database. The team wants to reduce the cost of running the tests without reducing the compute and memory attributes of the DB instance. Which solution meets these requirements MOST cost-effectively?

- A. Stop the DB instance when tests are completed Restart the DB instance when required
- B. Use an Auto Scaling policy with one DB instance to automatically scale when tests are completed
- C. Create a snapshot when tests are completed Terminate the DB instance and restore the snapshot when required
- D. Modify the DB instance to a low-capacity instance when tests are completed Modify the DB instance again when required

正确答案 C

Q628. A company hosts its web applications in the AWS Cloud. The company configures Elastic Load Balancers to use certificates that are imported into AWS Certificate Manager (ACM). The company's security team must be notified 30 days before the expiration of each certificate. What should a solutions architect recommend to meet this requirement?

- A. Add a rule in ACM to publish a custom message to an Amazon Simple Notification Service (Amazon SNS) topic every day beginning 30 days before any certificate will expire
- B. Create an AWS Config rule that checks for certificates that will expire within 30 days. Configure Amazon EventBridge (Amazon CloudWatch

Events) to invoke a custom alert by way of Amazon Simple Notification Service (Amazon SNS) when AWS Config reports a noncompliant resource.

C. Use AWS Trusted Advisor to check for certificates that will expire within 30 days. Create an Amazon CloudWatch alarm that is based on Trusted Advisor metrics for check status changes. Configure the alarm to send a custom alert by way of Amazon Simple Notification Service (Amazon SNS).

D. Create an Amazon EventBridge (Amazon CloudWatch Events) rule to detect any certificates that will expire within 30 days. Configure the rule to invoke an AWS Lambda function. Configure the Lambda function to send a custom alert by way of Amazon Simple Notification Service (Amazon SNS).

正确答案 B

Q629. A company is running a legacy system on an Amazon EC2 instance. The application code cannot be modified, and the system cannot run on more than one instance. A solutions architect must design a resilient solution that can improve the recovery time for the system. What should the solutions architect recommend to meet these requirements?

A. Enable termination protection for the EC2 instance.

B. Configure the EC2 instance for Multi-AZ deployment.

C. Create an Amazon CloudWatch alarm to recover the EC2 instance in case of failure.

D. Launch the EC2 instance with two Amazon Elastic Block Store (Amazon EBS) volumes that use RAID configurations for storage redundancy.

正确答案 C

Q630. A company is deploying an application that processes large quantities of data in parallel. The company plans to use Amazon EC2

instances for the workload. The network architecture must be configurable to prevent groups of nodes from sharing the same underlying hardware. Which networking solution meets these requirements?

- A. Run the EC2 instances in a spread placement group
- B. Group the EC2 instances in separate accounts
- C. Configure the EC2 instances with dedicated tenancy
- D. Configure the EC2 instances with shared tenancy

正确答案 A

Q631. A company needs to store 160 TB of data for an indefinite amount of time. The company must be able to use standard SQL and business intelligence tools to query all of the data. The data will be queried no more than twice each month. What is the MOST cost-effective solution that meets these requirements?

- A. Store the data in Amazon Aurora Serverless with MySQL. Use an SQL client to query the data.
- B. Store the data in Amazon S3. Use AWS Glue, Amazon Athena, and Athena JDBC and ODBC drivers to query the data.
- C. Store the data in an Amazon EMR cluster with EMR File System (EMRFS) as the storage layer. Use Apache Presto to query the data.
- D. Store a subset of the data in Amazon Redshift and store the remaining data in Amazon S3. Use Amazon Redshift Spectrum to query the S3 data.

正确答案 B

Q632. A company stores project information in a shared spreadsheet. The company wants to create a web application to replace the spreadsheet. The company has chosen Amazon DynamoDB to store the spreadsheet's data

and is designing the web application to display the project information that is obtained from DynamoDB. A solutions architect must design the web application's backend by using managed services that require minimal operational maintenance. Which architectures meet these requirements? (Select TWO.)

- A. An Amazon API Gateway REST API accesses the project information that is in DynamoDB.
- B. An Elastic Load Balancer forwards requests to a target group with DynamoDB set up as the target.
- C. An Amazon API Gateway REST API invokes an AWS Lambda function. The Lambda function accesses DynamoDB.
- D. An Amazon Route 53 hosted zone routes requests to an AWS Lambda endpoint to invoke a Lambda function that accesses DynamoDB.
- E. An Elastic Load Balancer forwards requests to a target group of Amazon EC2 instances. The EC2 instances run an application that accesses DynamoDB.

正确答案 A, E

Q633. A company has deployed a multiplayer game for mobile devices. The game requires live location tracking of players based on latitude and longitude. The data store for the game must support rapid updates and retrieval of locations. The game uses an Amazon RDS for PostgreSQL DB instance with read replicas to store the location data. During peak usage periods the database is unable to maintain the performance that is needed for reading and writing updates. The game's user base is increasing rapidly. What should a solutions architect do to improve the performance of the data tier?

- A. Take a snapshot of the existing DB instance. Restore the snapshot with Multi-AZ enabled

- B. Migrate from Amazon RDS to Amazon Elasticsearch Service (Amazon ES) with Kibana
- C. Deploy Amazon DynamoDB Accelerator (DAX) in front of the existing DB instance. Modify the game to use DAX
- D. Deploy an Amazon ElastiCache for Redis cluster in front of the existing DB instance. Modify the game to use Redis.

正确答案 D

Q634. A company hosts its multi-tier, public web application in the AWS Cloud. The web application runs on Amazon EC2 instances, and its database runs on Amazon RDS. The company is anticipating a large increase in sales during an upcoming holiday weekend. A solutions architect needs to build a solution to analyze the performance of the web application with a granularity of no more than 2 minutes. What should the solutions architect do to meet this requirement?

- A. Send Amazon CloudWatch logs to Amazon Redshift Use Amazon QuickSight to perform further analysis.
- B. Enable detailed monitoring on all EC2 instances. Use Amazon CloudWatch metrics to perform further analysis.
- C. Create an AWS Lambda function to fetch EC2 logs from Amazon CloudWatch Logs Use Amazon CloudWatch metrics to perform further analysis.
- D. Send EC2logs to Amazon S3. Use Amazon Redshift to fetch logs from the S3 bucket to process raw data for further analysis with Amazon QuickSight.

正确答案 B

Q635. A solutions architect is creating an application. The application will run on Amazon EC2 instances in private subnets across multiple Availability Zones in a VPC. The EC2 instances will frequently access large files that contain confidential information. These files are

stored in Amazon S3 buckets for processing. The solutions architect must optimize the network architecture to minimize data transfer costs. What should the solutions architect do to meet these requirements?

- A. Create a gateway endpoint for Amazon S3 in the VPC. In the route tables for the private subnets, add an entry for the gateway endpoint.
- B. Create a single NAT gateway in a public subnet. In the route tables for the private subnets, add a default route that points to the NAT gateway.
- C. Create an AWS PrivateLink interface endpoint for Amazon S3 in the VPC. In the route tables for the private subnets, add an entry for the interface endpoint.
- D. Create one NAT gateway for each Availability Zone in public subnets. In each of the route tables for the private subnets, add a default route that points to the NAT gateway in the same Availability Zone.

正确答案 A

Q636. A company's infrastructure consists of hundreds of Amazon EC2 instances that use Amazon Elastic Block Store (Amazon EBS) storage. A solutions architect must ensure that every EC2 instance can be recovered after a disaster. What should the solutions architect do to meet this requirement with the LEAST amount of effort?

- A. Take a snapshot of the EBS storage that is attached to each EC2 instance. Create an AWS CloudFormation template to launch new EC2 instances from the EBS storage.
- B. Take a snapshot of the EBS storage that is attached to each EC2 instance. Use AWS Elastic Beanstalk to set the environment based on the EC2 template and attach the EBS storage.
- C. Use AWS Backup to set up a backup plan for the entire group of EC2 instances. Use the AWS Backup API or the AWS CLI to speed up the restore process for multiple EC2 instances.

D. Create an AWS Lambda function to take a snapshot of the EBS storage that is attached to each EC2 instance and copy the Amazon Machine Images (AMIs). Create another Lambda function to perform the restores with the copied AMIs and attach the EBS storage.

正确答案 A

Q637. A development team uses multiple AWS accounts for its development, staging, and production environments. Team members have been launching large Amazon EC2 instances that are underutilized. A solutions architect must prevent large instances from being launched in all accounts. How can the solutions architect meet this requirement with the LEAST operational overhead?

- A. Update the IAM policies to deny the launch of large EC2 instances. Apply the policies to all users.
- B. Define a resource in AWS Resource Access Manager that prevents the launch of large EC2 instances.
- C. Create an IAM role in each account that denies the launch of large EC2 instances. Grant the developers IAM group access to the role.
- D. Create an organization in AWS Organizations in the master account with the default policy. Create a service control policy (SCP) that denies the launch of large EC2 instances, and apply it to the AWS accounts.

正确答案 D

Q638. A solutions architect is designing the architecture for a software demonstration environment. The environment will run on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB). The system will experience significant increases in traffic during working hours but is not required to operate on weekends. Which combination of actions should the solutions architect take to ensure that the system can scale to meet demand? (Select TWO)

- A. Use AWS Auto Scaling to adjust the ALB capacity based on request rate.
- B. Use AWS Auto Scaling to scale the capacity of the VPC internet gateway.
- C. Launch the EC2 instances in multiple AWS Regions to distribute the load across Regions.
- D. Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU utilization.
- E. Use scheduled scaling to change the Auto Scaling group minimum, maximum, and desired capacity to zero for weekends Revert to the default values at the start of the week.

正确答案 C, E

Q639. A company is running an ASP.NET MVC application on a single Amazon EC2 instance. A recent increase in application traffic is causing slow response times for users during lunch hours. The company needs to resolve this concern with the least amount of configuration. What should a solutions architect recommend to meet these requirements?

- A. Move the application to AWS Elastic Beanstalk. Configure load-based auto scaling and time-based scaling to handle scaling during lunch hours.
- B. Move the application to Amazon Elastic Container Service (Amazon ECS). Create an AWS Lambda function to handle scaling during lunch hours.
- C. Move the application to Amazon Elastic Container Service (Amazon ECS). Configure scheduled scaling for AWS Application Auto Scaling during lunch hours.
- D. Move the application to AWS Elastic Beanstalk. Configure load-based auto scaling, and create an AWS Lambda function to handle scaling during lunch hours.

正确答案 A

Q640. A company has an application that uses Amazon Elastic File System (Amazon EFS) to store data. The files are 1 GB in size or larger and are accessed often only for the first few days after creation. The application data is shared across a cluster of Linux servers. The company wants to reduce storage costs for the application. What should a solutions architect do to meet these requirements?

- A. Implement Amazon FSx and mount the network drive on each server.
- B. Move the files from Amazon EFS and store them locally on each Amazon EC2 instance
- C. Configure a lifecycle policy to move the files to the EFS Infrequent Access (IA) storage class after 7 days.
- D. Move the files to Amazon S3 with S3 Lifecycle policies enabled Rewrite the application to support mounting the S3 bucket.

正确答案 C

Q641. A company runs a web application that is backed by Amazon RDS. A new database administrator caused data loss by accidentally editing information in a database table. To help recover from this type of incident, the company wants the ability to restore the database to its state from 5 minutes before any change within the last 30 days. Which feature should the solutions architect include in the design to meet this requirement?

- A. Read replicas
- B. Manual snapshots
- C. Automated backups
- D. Multi-AZ deployments

正确答案 C

Q642. A solutions architect must provide an automated solution for a company's compliance policy that states security groups cannot include a rule that allows SSH from 0.0.0.0/0. The company needs to be notified if there is any breach in the policy. A solution is needed as soon as possible.

What should the solutions architect do to meet these requirements with the LEAST operational overhead?

- A. Write an AWS Lambda script that monitors security groups for SSH being open to 00.0.0.0 addresses and creates a notification every time it finds one.
- B. Enable the restricted-ssh AS Config managed rule and generate an Amazon Simple Notification Service (Amazon SNS) notification when a noncompliant rule is created
- C. Create an IAM role with permissions to globally open security groups and network ACLs Create an Amazon Simple Notification Service (Amazon SNS) topic to generate a notification every time the role is assumed by a user.
- D. Configure a service control policy (SCP) that prevents non-administrative users from creating or editing security groups Create a notification in the ticketing system when a user requests a rule that needs administrator permissions.

正确答案 B

Q643. A company hosts a two-tier application on Amazon EC2 instances and Amazon RDS. The application's demand varies based on the time of day. The load is minimal after work hours and on weekends. The EC2 instances run

in an EC2 Auto Scaling Group that is configured with a minimum of two instances and a maximum of five instances. The application must be available at all times, but the company is concerned about overall cost. Which solution meets the availability requirement MOST cost-effectively?

- A. Use all EC2 Spot Instances. Stop the RDS database when it is not in use.
- B. Purchase EC2 Instance Savings Plans to cover five EC2 instances. Purchase an RDS Reserved DB Instance.
- C. Purchase two EC2 Reserved Instances. Use up to three additional EC2 Spot Instances as needed. Stop the RDS database when it is not in use.
- D. Purchase EC2 Instance Savings Plans to cover two EC2 instances. Use up to three additional EC2 On-Demand Instances as needed. Purchase an RDS Reserved DB Instance.

正确答案 D

Q644. A company operates a two-tier application for image processing. The application uses two Availability Zones, each with one public subnet and one private subnet. An Application Load Balancer (ALB) for the web tier uses the public subnets. Amazon EC2 instances for the application tier use the private subnets. Users report that the application is running more slowly than expected. A security audit of the web server log files shows that the application is receiving millions of illegitimate requests from a small number of IP addresses. A solutions architect needs to resolve the immediate performance problem while the company investigates a more permanent solution. What should the solutions architect recommend to meet this requirement?

- A. Modify the inbound security group for the web tier. Add a deny rule for the IP addresses that are consuming resources
- B. Modify the network ACL for the web tier subnets. Add an inbound deny rule for the IP addresses that are consuming resources.

C. Modify the inbound security group for the application tier. Add a deny rule for the IP addresses that are consuming resources.

D. Modify the network ACL for the application tier subnets. Add an inbound deny rule for the IP addresses that are consuming resources.

正确答案 B

Q645. A medical records company is hosting an application on Amazon EC2 instances. The application processes customer data files that are stored on Amazon S3. The EC2 instances are hosted in public subnets. The EC2 instances access Amazon S3 over the internet, but they do not require any other network access. A new requirement mandates that the network traffic for file transfers take a private route and not be sent over the internet. Which change to the network architecture should a solutions architect recommend to meet this requirement?

A. Create a NAT gateway. Configure the route table for the public subnets to send traffic to Amazon S3 through the NAT gateway.

B. Configure the security group for the EC2 instances to restrict outbound traffic so that only traffic to the S3 prefix list is permitted.

C. Move the EC2 instances to private subnets. Create a VPC endpoint for Amazon S3, and link the endpoint to the route table for the private subnets.

D. Remove the internet gateway from the VPC. Set up an AWS Direct Connect connection, and route traffic to Amazon S3 over the Direct Connect connection.

正确答案 C

Q646. A company runs a critical, customer-facing application on Amazon Elastic Kubernetes Service (Amazon EKS). The application has a microservices architecture. The company needs to implement a solution

that collects, aggregates, and summarizes metrics and logs from the application in a centralized location. Which solution meets these requirements?

- A. Run the Amazon CloudWatch agent in the existing EKS cluster. View the metrics and logs in the CloudWatch console.
- B. Run AWS App Mesh in the existing EKS cluster. View the metrics and logs in the App Mesh console.
- C. Configure AWS CloudTrail to capture data events. Query CloudTrail by using Amazon Elasticsearch Service (Amazon ES).
- D. Configure Amazon CloudWatch Container Insights in the existing EKS cluster. View the metrics and logs in the CloudWatch console.

正确答案 D

Q647. A company's database is hosted on an Amazon Aurora MySQL DB cluster in the us-east-1 Region. The database is 4 TB in size. The company needs to expand its disaster recovery strategy to the us-west-2 Region. The company must have the ability to fail over to us-west-2 with a recovery time objective (RTO) of 15 minutes. What should a solutions architect recommend to meet these requirements?

- A. Create a Multi-Region Aurora MySQL DB cluster in us-east-1 and us-west-2. Use an Amazon Route 53 health check to monitor us-east-1 and fail over to us-west-2 upon failure.
- B. Take a snapshot of the DB cluster in us-east-1. Configure an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function upon receipt of resource events. Configure the Lambda function to copy the snapshot to us-west-2 and restore the snapshot in us-west-2 when failure is detected.
- C. Create an AWS CloudFormation script to create another Aurora MySQL DB cluster in us-west-2 in case of failure. Configure an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function upon

receipt of resource events. Configure the Lambda function to deploy the AWS CloudFormation stack in us-west-2 when failure is detected.

D. Recreate the database as an Aurora global database with the primary DB cluster in us-east-1 and a secondary DB cluster in us-west-2. Configure an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function upon receipt of resource events. Configure the Lambda function to promote the DB cluster in us-west-2 when failure is detected.

正确答案 D

Q648. A social media company allows users to upload images to its website. The website runs on Amazon EC2 instances. During upload requests, the website resizes the images to a standard size and stores the resized images in Amazon S3. Users are experiencing slow upload requests to the website. The company needs to reduce coupling within the application and improve website performance. A solutions architect must design the most operationally efficient process for image uploads. Which combination of actions should the solutions architect take to meet these requirements? (Select TWO.)

- A. Configure the application to upload images to S3 Glacier
- B. Configure the web server to upload the original images to Amazon S3
- C. Configure the application to upload images directly from each user's browser to Amazon S3 through the use of a presigned URL.
- D. Configure S3 Event Notifications to invoke an AWS Lambda function when an image is uploaded. Use the function to resize the image.
- E. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function on a schedule to resize uploaded images.

正确答案 C, D

Q649. A company is hosting a high-traffic static website on Amazon S3 with an Amazon CloudFront distribution that has a default TTL of 0 seconds. The company wants to implement caching to improve performance for the website. However, the company also wants to ensure that stale content is not served for more than a few minutes after a deployment. Which combination of caching methods should a solutions architect implement to meet these requirements? (Select TWO.)

- A. Set the CloudFront default TTL to 2 minutes.
- B. Set a default TTL of 2 minutes on the S3 bucket.
- C. Add a Cache-Control private directive to the objects in Amazon S3.
- D. Create an AWS Lambda@Edge function to add an Expires header to HTTP responses. Configure the function to run on viewer response.
- E. Add a Cache-Control max-age directive of 24 hours to the objects in Amazon S3. On deployment, create a CloudFront invalidation to purge any changed files from edge caches.

正确答案 A, E

Q650. A company's web application resizes uploaded images when requested by users. The application stores both the original images and the resized images in Amazon S3. Resized images are viewed infrequently after they are created, but they must be available immediately. The company wants to minimize the storage costs for the large quantity of images that must be stored. Which combination of actions should a solutions architect take to meet these requirements MOST cost-effectively? (Select TWO)

- A. Store the original images in S3 Standard.
- B. Store the resized images in S3 Standard.
- C. Store the original images in S3 Glacier.
- D. Store the resized images in S3 Glacier.

E. Store the resized images in S3 One Zone-Infrequent Access (S3One Zone-IA).

正确答案 A, E

Q651. A company is deploying a two-tier web application in a VPC. The web tier is using an Amazon EC2 Auto Scaling group with public subnets that span multiple Availability Zones. The database tier consists of an Amazon RDS for MySQL DB instance in separate private subnets. The web tier requires access to the database to retrieve product information. The web application is not working as intended. The web application reports that it cannot connect to the database. The database is confirmed to be up and running. All configurations for the network ACLs, security groups, and route tables are still in their default states. What should a solutions architect recommend to fix the application?

A. Add an explicit rule to the private subnet's network ACL to allow traffic from the web tier's EC2 instances.

B. Add a route in the VPC route table to allow traffic between the web tier's EC2 instances and the database tier.

C. Deploy the web tier's EC2 instances and the database tier's RDS instance into two separate VPCs, and configure VPC peering.

D. Add an inbound rule to the security group of the database tier's RDS instance to allow traffic from the web tier's security group.

正确答案 D

Q652. A company is creating a new web application for its subscribers. The application will consist of a static single page and a persistent database layer. The application will have millions of users for 4 hours in the morning, but the application will have only a few thousand users during the rest of the day. The company's data architects have requested

the ability to rapidly evolve their schema. Which solutions will meet these requirements and provide the MOST scalability? (Select TWO.)

- A. Deploy Amazon DynamoDB as the database solution Provision on-demand capacity
- B. Deploy Amazon Aurora as the database solution Choose the serverless DB engine mode
- C. Deploy Amazon DynamoDB as the database solution Ensure that DynamoDB auto scaling is enabled.
- D. Deploy the static content into an Amazon S3 bucket. Provision an Amazon CloudFront distribution with the S3 bucket as the origin.
- E. Deploy the web servers for static content across a fleet of Amazon EC2 instances in Auto Scaling groups. Configure the instances to periodically refresh the content from an Amazon Elastic File System (Amazon EFS) volume.

正确答案 C, D

Q653. A company is developing an API that mobile apps will use to retrieve weather information. During beta testing, the company ran the API on Amazon EC2 instances and used an Application Load Balancer (ALB) to route requests to a single Auto Scaling group. The company used an Amazon DynamoDB table for persistent data storage. The company wants to move to an architecture that can scale easily with the least possible operational overhead. What should a solutions architect do to meet these requirements?

- A. Use separate Auto Scaling groups for each API request type. Change the ALB to route requests to the appropriate Auto Scaling group.
- B. Implement an Amazon API Gateway API to replace the ALB. Configure each API request method with an AWS Lambda function to process the request.

C. Migrate the API to containers. Use an Amazon Elastic Container Service (Amazon ECS) cluster that has services for each API request. Configure each service with its own Auto Scaling group

D. Configure the API to publish to an Amazon Simple Notification Service (Amazon SNS) topic for each API request method. Subscribe an Amazon Simple Queue Service (Amazon SQS) queue to the SNS topic. Subscribe an AWS Lambda function to the SQS queue to process the request.

正确答案 C

Q654. A company wants to run its critical applications in containers to meet requirements for scalability and availability. The company prefers to focus on maintenance of the critical applications. The company does not want to be responsible for provisioning and managing the underlying infrastructure that runs the containerized workload. What should a solutions architect do to meet these requirements?

- A. Use Amazon EC2 instances and install Docker on the instances.
- B. Use Amazon Elastic Container Service (Amazon ECS) on Amazon EC2 worker nodes.
- C. Use Amazon Elastic Container Service (Amazon ECS) on AWS Fargate.
- D. Use Amazon EC2 instances from an Amazon Elastic Container Service (Amazon ECS)-optimized Amazon Machine Image (AMI).

正确答案 C

Q655. A solutions architect must design a highly available infrastructure for a website. The website is powered by Windows web servers that run on Amazon EC2 instances. The solutions architect must implement a solution that can mitigate a large-scale DDoS attack that originates from thousands of IP addresses. Downtime is not acceptable for

the website. Which actions should the solutions architect take to protect the website from such an attack? (Select TWO)

- A. Use AWS Shield Advanced to stop the DDoS attack.
- B. Configure Amazon GuardDuty to automatically block the attackers.
- C. Configure the website to use Amazon CloudFront for both static and dynamic content.
- D. Use an AWS Lambda function to automatically add attacker IP addresses to VPC network ACLs.
- E. Use EC2Spot Instances in an Auto Scaling group with a target tracking scaling policy that is set to 80% CPU utilization.

正确答案 A, C

Q656. A solutions architect is designing the architecture for a new web application. The application will run on AWS Fargate containers with an Application Load Balancer (ALB) and an Amazon Aurora PostgreSQL database. The web application will perform primarily read queries against the database. What should the solutions architect do to ensure that the website can scale with increasing traffic? (Select TWO.)

- A. Enable auto scaling on the ALB to scale the load balancer horizontally.
- B. Configure Aurora Auto Scaling to adjust the number of Aurora Replicas in the Aurora cluster dynamically.
- C. Enable cross-zone load balancing on the ALB to distribute the load evenly across containers in all Availability Zones.
- D. Configure an Amazon Elastic Container Service (Amazon ECS) cluster in each Availability Zone to distribute the load across multiple Availability Zones.

E. Configure Amazon Elastic Container Service (Amazon ECS) Service Auto Scaling with a target tracking scaling policy that is based on CPU utilization.

正确答案 B, E

Q657. A company recently signed a contract with an AWS Managed Service Provider (MSP) Partner for help with an application migration initiative. A solutions architect needs to share an Amazon Machine Image (AMI) from an existing AWS account with the MSP Partner's AWS account. The AMI is backed by Amazon Elastic Block Store (Amazon EBS) and uses a customer managed customer master key (CMK) to encrypt EBS volume snapshots. What is the MOST secure way for the solutions architect to share the AMI with the MSP Partner's AWS account?

- A. Make the encrypted AMI and snapshots publicly available. Modify the CMKs key policy to allow the MSP Partner's AWS account to use the key.
- B. Modify the launch Permission property of the AMI. Share the AMI with the MSP Partner's AWS account only. Modify the CMKs key policy to allow the MSP Partner's AWS account to use the key.
- C. Modify the launch Permission property of the AMI. Share the AMI with the MSP Partner's AWS account only. Modify the CMKs key policy to trust a new CMK that is owned by the MSP Partner for encryption.
- D. Export the AMI from the source account to an Amazon S3 bucket in the MSP Partner's AWS account. Encrypt the S3 bucket with a CMK that is owned by the MSP Partner. Copy and launch the AMI in the MSP Partner's AWS account.

正确答案 D

Q658. A company hosts an application on AWS. The application interacts with an Amazon DynamoDB table that has 10 read capacity units (RCUs).

Data from Amazon CloudWatch alarms shows that throttling is occurring on read requests to the DynamoDB table. The company needs to prevent this issue from happening in the future as the application continues to grow. What should a solutions architect recommend to meet these requirements?

- A. Add an Elastic Load Balancer in front of the DynamoDB table.
- B. Change the RCUs for the DynamoDB table to 20.
- C. Provision 20 write capacity units (WCUs) for the DynamoDB table to offset the throttling on read requests.
- D. Enable auto scaling for the DynamoDB table.

正确答案 D

Q659. A company is automating an order management application. The company's development team has decided to use SFTP to transfer and store the business-critical information files. The files must be encrypted and must be highly available. The files also must be automatically deleted a month after they are created. Which solution meets these requirements with the LEAST operational overhead?

- A. Configure an Amazon S3 bucket with encryption enabled. Use AWS Transfer for SFTP to securely transfer the files to the S3 bucket. Apply an AWS Transfer for SFTP file retention policy to delete the files after a month.
- B. Install an SFTP service on an Amazon EC2 instance Mount an Amazon Elastic File System (Amazon EFS) file share on the EC2 instance. Enable cron to delete the files after a month.
- C. Configure an Amazon Elastic File System (Amazon EFS) file system with encryption enabled. Use AWS Transfer for SFTP to securely transfer the files to the EFS file system. Apply an EFS lifecycle policy to automatically delete the files after a month.

D. Configure an Amazon S3 bucket with encryption enabled. Use AWS Transfer for SFTP to securely transfer the files to the S3 bucket. Apply S3 Lifecycle rules to automatically delete the files after a month.

正确答案 D

Q660. A company needs to connect its on-premises data center network to a new VPC. The data center network has a 100 Mbps symmetrical internet connection. An application that is running on premises will transfer multiple gigabytes of data each day. The application will use an Amazon Kinesis Data Firehose delivery stream for processing. What should a solutions architect recommend for maximum performance?

A. Create a VPC peering connection between the on-premises network and the VPC. Configure routing for the on-premises network to use the VPC peering connection.

B. Procure an AWS Snowball Edge Storage Optimized device. After several days' worth of data has accumulated, copy the data to the device and ship the device to AWS for expedited transfer to Kinesis Data Firehose. Repeat as needed.

C. Create an AWS Site-to-Site VPN connection between the on-premises network and the VPC. Configure BGP routing between the customer gateway and the virtual private gateway. Use the VPN connection to send the data from on premises to Kinesis Data Firehose.

D. Use AWS PrivateLink to create an interface VPC endpoint for Kinesis Data Firehose in the VPC. Set up a 1 Gbps AWS Direct Connect connection between the on-premises network and AWS. Use the PrivateLink endpoint to send the data from on premises to Kinesis Data Firehose.

正确答案 C

Q661. A company is building an online multiplayer game. The game communicates by using UDP, and low latency between the client and the

backend is important. The backend is hosted on Amazon EC2 instances that can be deployed to multiple AWS Regions to meet demand. The company needs the game to be highly available so that users around the world can access the game at all times. What should a solutions architect do to meet these requirements?

- A. Deploy Amazon CloudFront to support the global traffic. Configure CloudFront with an origin group to allow access to EC2 instances in multiple Regions
- B. Deploy an Application Load Balancer in one Region to distribute traffic to EC2 instances in each Region that hosts the game's backend instances
- C. Deploy Amazon CloudFront to support an origin access identity (OAI). Associate the OAI with EC2 instances in each Region to support global traffic
- D. Deploy a Network Load Balancer in each Region to distribute the traffic. Use AWS Global Accelerator to route traffic to the correct Regional endpoint.

正确答案 D

Q662. A medical research lab produces data that is related to a new study. The lab wants to make the data available with minimum latency to clinics across the country for their on-premises., file-based applications. The data files are stored in an Amazon S3 bucket that has read-only permissions for each clinic. What should a solutions architect recommend to meet these requirements?

- A. Deploy an AWS Storage Gateway file gateway as a virtual machine (VM) on premises at each clinic.
- B. Migrate the files to each clinic's on-premises applications by using AWS DataSync for processing.

- C. Deploy an AWS Storage Gateway volume gateway as a virtual machine (VM) on premises at each clinic.
- D. Attach an Amazon Elastic File System (Amazon EFS) file system to each clinic's on-premises servers.

正确答案 A

解析：

Q663. A company wants to run an in-memory database for a latency-sensitive application that runs on Amazon EC2 instances. The application processes more than 100,000 transactions each minute and requires high network throughput. A solutions architect needs to provide a cost-effective network design that minimizes data transfer charges. Which solution meets these requirements?

- A. Launch all EC2 instances in the same Availability Zone within the same AWS Region. Specify a placement group with cluster strategy when launching EC2 instances.
- B. Launch all EC2 instances in different Availability Zones within the same AWS Region. Specify a placement group with partition strategy when launching EC2 instances.
- C. Deploy an Auto Scaling group to launch EC2 instances in different Availability Zones based on a network utilization target.
- D. Deploy an Auto Scaling group with a step scaling policy to launch EC2 instances in different Availability Zones.

正确答案 A

Q664. A company is building an ecommerce application and needs to store sensitive customer information. The company needs to give customers the ability to complete purchase transactions on the website. The company

also needs to ensure that sensitive customer data is protected even from database administrators. Which solution meets these requirements?

- A. Store sensitive data in an Amazon Elastic Block Store (Amazon EBS) volume. Use EBS encryption to encrypt the data. Use an IAM instance role to restrict access.
- B. Store sensitive data in Amazon RDS for MySQL. Use AWS Key Management Service (AWS KMS) client-side encryption to encrypt the data.
- C. Store sensitive data in Amazon S3. Use AWS Key Management Service (AWS KMS) server-side encryption to encrypt the data. Use S3 bucket policies to restrict access.
- D. Store sensitive data in Amazon FSx for Windows Server. Mount the file share on application servers. Use Windows file permissions to restrict access.

正确答案 C

Q665. A company runs an on-premises application that is powered by a MySQL database. The company is migrating the application to AWS to increase the application's elasticity and availability. The current architecture shows heavy read activity on the database during times of normal operation. Every 4 hours, the company's development team pulls a full export of the production database to populate a database in the staging environment. During this period, users experience unacceptable application latency. The development team is unable to use the staging environment until the procedure completes. A solutions architect must recommend replacement architecture that alleviates the application latency issue. The replacement architecture also must give the development team the ability to continue using the staging environment without delay. Which solution meets these requirements?

- A. Use Amazon Aurora MySQL with Multi-AZ Aurora Replicas for production. Populate the staging database by implementing a backup and restore process that uses the mysqldump utility.

B. Use Amazon Aurora MySQL with Multi-AZ Aurora Replicas for production
Use database cloning to create the staging database on-demand.

C. Use Amazon RDS for MySQL with a Multi-AZ deployment and read replicas
for production. Use the standby instance for the staging database.

D. Use Amazon RDS for MySQL with a Multi-AZ deployment and read replicas
for production. Populate the staging database by implementing a backup
and restore process that uses the mysqldump utility.

正确答案 B

Q666. A company needs to transfer 600 TB of data from its on-premises network-attached storage (NAS) system to the AWS Cloud. The data transfer must be complete within 2 weeks. The data is sensitive and must be encrypted in transit. The company's internet connection can support an upload speed of 100 Mbps. Which solution meets these requirements MOST cost-effectively?

A. Use Amazon S3 multi-part upload functionality to transfer the files over HTTPS.

B. Create a VPN connection between the on-premises NAS system and the nearest AWS Region. Transfer the data over the VPN connection

C. Use the AWS Snow Family console to order several AWS Snowball Edge Storage Optimized devices. Use the devices to transfer the data to Amazon S3.

D. Set up a 10 Gbps AWS Direct Connect connection between the company location and the nearest AWS Region. Transfer the data over a VPN connection into the Region to store the data in Amazon S3.

正确答案 D

Q667. A company has multiple AWS accounts that are configured in an AWS Organizations organizational unit (OU). The company wants users to be able to create Amazon S3 buckets in the us-east-2 Region only. The FullAWSAccess service control policy (SCP) is attached to the OU. Which SCP should a solutions architect use to meet these requirements?

A. A

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Effect": "Allow",  
            "Action": "s3:CreateBucket",  
            "Resource": "arn:aws:s3:::*",  
            "Condition": {  
                "StringLike": {  
                    "s3:LocationConstraint": "us-east-2"  
                }  
            }  
        }  
    ]  
}
```

B. B

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Effect": "Deny",  
            "Action": "s3:CreateBucket",  
            "Resource": "arn:aws:s3:::*",  
            "Condition": {  
                "StringNotLike": {  
                    "s3:LocationConstraint": "us-east-2"  
                }  
            }  
        }  
    ]  
}
```

C. C

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Effect": "Deny",  
            "Action": "s3:CreateBucket",  
            "Resource": "arn:aws:s3:::*",  
            "Condition": {  
                "StringLike": {  
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                }  
            }  
        }  
    ]  
}
```

D. D

```
{  
    "Version": "2012-10-17",  
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            "Condition": {  
                "StringNotLike": {  
                    "aws:RequestedRegion": "us-east-2"  
                }  
            }  
        }  
    ]  
}
```

正确答案 D

Q668. A company has a stateless web application that runs on AWS Lambda functions that are invoked by Amazon API Gateway. The company wants to deploy the application across multiple AWS Regions to provide Regional

failover capabilities. What should a solutions architect do to route traffic to multiple Regions?

- A. Configure Amazon Route 53 health checks for each Region. Use an active-active failover configuration.
- B. Create an Amazon CloudFront distribution with an origin for each Region. Use CloudFront health checks to route traffic.
- C. Create an AWS Transit Gateway. Attach the transit gateway to the API Gateway endpoint in each Region. Configure the transit gateway to route requests.
- D. Use AWS Global Accelerator to create an accelerator with endpoints in each Region. Allow Global Accelerator to automatically monitor the health of endpoints and route requests.

正确答案 D

Q669. A company is expanding a secure, on-premises network that has no direct internet access to AWS. The company will set up an AWS Direct Connect connection between the on-premises network and AWS. An application that runs in the on-premises network needs to use the AWS software development kit (SDK) to make calls to the Amazon EC2 API endpoint. A solutions architect must design a solution that supports this connectivity but that does not incur additional cost beyond the Direct Connect connection. Which solution meets these requirements?

- A. Create a public virtual interface. Route the AWS traffic over the public virtual interface.
- B. Create a VPC and a NAT gateway. Route the AWS traffic from on premises to the NAT gateway.
- C. Create a VPC and an interface VPC endpoint for Amazon EC2. Route the AWS traffic from on premises to the interface VPC endpoint.

D. Create a VPC peering connection between the on-premises network and Direct Connect. Route the AWS traffic over the peering connection.

正确答案 A

Q670. A company is implementing new data retention policies for all databases that run on Amazon RDS DB instances. The company must retain daily backups for a minimum period of 2 years. The backups must be consistent and restorable. Which solution should a solutions architect recommend to meet these requirements?

A. Create a backup vault in AWS Backup to retain RDS backups. Create a new backup plan with a daily schedule and an expiration period of 2 years after creation. Assign the RDS DB instances to the backup plan.

B. Configure a backup window for the RDS DB instances for daily snapshots. Assign a snapshot retention policy of 2 years to each RDS DB instance. Use Amazon Data Lifecycle Manager (Amazon DLM) to schedule snapshot deletions.

C. Configure database transaction logs to be automatically backed up to Amazon CloudWatch Logs with an expiration period of 2 years.

D. Configure an AWS Database Migration Service (AWS DMS) replication task. Deploy a replication instance, and configure a change data capture (CDC) task to stream database changes to Amazon S3 as the target. Configure S3 Lifecycle policies to delete the snapshots after 2 years.

正确答案 A

Q671. A company is using AWS Key Management Service (AWS KMS) customer master keys (CMKs) to encrypt AWS Lambda environment variables. A solutions architect needs to ensure that the required permissions are in place to decrypt and use the environment variables. Which steps must the

solutions architect take to implement the correct permissions? (Select TWO.)

- A. Add AWS KMS permissions in the Lambda resource policy
- B. Add AWS KMS permissions in the Lambda execution role.
- C. Add AWS KMS permissions in the Lambda function policy
- D. Allow the Lambda execution role in the AWS KMS key policy
- E. Allow the Lambda resource policy in the AWS KMS key policy.

正确答案 B, E

Q672. A company is architecting a shared storage solution for a gaming application that is hosted in the AWS Cloud. The company needs the ability to use Lustre clients to access data. The solution must be fully managed. Which solution meets these requirements?

- A. Create an AWS DataSync task that shares the data as a mountable file system. Mount the file system to the application server.
- B. Create an AWS Storage Gateway file gateway. Create a file share that uses the required client protocol. Connect the application server to the file share.
- C. Create an Amazon Elastic File System (Amazon EFS) file system, and configure it to support Lustre. Attach the file system to the origin server. Connect the application server to the file system.
- D. Create an Amazon FSx for Lustre file system. Attach the file system to the origin server. Connect the application server to the file system.

正确答案 D

Q673. An ecommerce company hosts its analytics application in the AWS Cloud. The application generates about 300 MB of data each month. The data

is stored in JSON format. The company is evaluating a disaster recovery solution to back up the data. The data must be accessible in milliseconds if it is needed and the data must be kept for 30 days. Which solution meets these requirements MOST cost-effectively?

- A. Amazon Elasticsearch Service (Amazon ES)
- B. Amazon S3 Glacier
- C. Amazon S3 Standard
- D. Amazon RDS for PostgreSQL

正确答案 A

Q674. A manufacturing company has machine sensors that upload .csv files to an Amazon S3 bucket. These .csv files must be converted into images and must be made available as soon as possible for the automatic generation of graphical reports. The images become irrelevant after 1 month, but the .csv files must be kept to train machine learning (ML) models twice a year. The ML trainings and audits are planned weeks in advance. Which combination of steps will meet these requirements MOST cost-effectively? (Select TWO)

- A. Launch an Amazon EC2 Spot Instance that downloads the .csv files every hour, generates the image files and uploads the images to the S3 bucket.
- B. Design an AWS Lambda function that converts the csv files into images and stores the images in the S3 bucket. Invoke the Lambda function when a .csv file is uploaded.
- C. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the .csv files from S3 Standard to S3 Glacier 1 day after they are uploaded. Expire the image files after 30 days.
- D. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the .csv files from S3 Standard to S3 One Zone-

Infrequent Access (S3 One Zone-IA) 1 day after they are uploaded. Expire the image files after 30 days.

E. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the .csv files from S3 Standard to S3 Standard-Infrequent Access (S3 Standard-IA) 1 day after they are uploaded. Keep the image files in Reduced Redundancy Storage(RRS).

正确答案 B, D

Q675. A weather forecasting company needs to process hundreds of gigabytes of data with sub-millisecond latency. The company has a high performance computing (HPC) environment in its data center and wants to expand its forecasting capabilities. A solutions architect must identify a highly available cloud storage solution that can handle large amounts of sustained throughput. Files that are stored in the solution should be accessible to thousands of compute instances that will simultaneously access and process the entire dataset. What should the solutions architect do to meet these requirements?

- A. Use Amazon FSx for Lustre scratch file systems.
- B. Use Amazon FSx for Lustre persistent file systems.
- C. Use Amazon Elastic File System (Amazon EFS) with Bursting Throughput mode.
- D. Use Amazon Elastic File System (Amazon EFS) with Provisioned Throughput mode

正确答案 B

解析：

Modify on 2021-05-26-C->B BY jiazhengsang

Q676. A company is implementing a shared storage solution for a media application that is hosted in the AWS Cloud. The company needs the ability to use SMB clients to access data. The solution must be fully managed. Which AWS solution meets these requirements?

- A. Create an AWS Storage Gateway volume gateway. Create a file share that uses the required client protocol. Connect the application server to the file share.
- B. Create an AWS Storage Gateway tape gateway. Configure tapes to use Amazon S3. Connect the application server to the tape gateway.
- C. Create an Amazon EC2 Windows instance. Install and configure a Windows file share role on the instance. Connect the application server to the file share.
- D. Create an Amazon FSx for Windows File Server file system. Attach the file system to the origin server. Connect the application server to the file system.

正确答案 D

解析：

Modify on 2021-4-28--A->D

Q677. A company is running a critical business application on an Amazon EC2 instance. The EC2 instance is hosting an Apache web server and a MySQL database server. The application serves static content and dynamic content to end users. The application is experiencing severe availability issues because of heavy user demand. The company needs a solution that resolves the availability issues with the least operational effort and the least change to the application. What should a solutions architect do to meet these requirements?

- A. Deploy the application and the web server on AWS Fargate. Use a Network Load Balancer to route traffic. Migrate the database to Amazon DynamoDB.

- B. Create an Amazon Machine Image (AMI) from the current EC2 instance. Create an Auto Scaling group to provide more capacity as needed. Use a Network Load Balancer to route traffic.
- C. Host static content on Amazon S3. Deploy the application and the web server on AWS Fargate. Use an Application Load Balancer to route traffic. Migrate the database to Amazon Aurora Serverless.
- D. Host static content on Amazon S3. Deploy the application on EC2 instances that are configured in an Auto Scaling group. Use an Application Load Balancer to route traffic. Migrate the database to Amazon DynamoDB.

正确答案 D

Q678. A company is running a web-based game in two Availability Zones in the us-west-2 Region. The web servers use an Application Load Balancer (ALB) in public subnets. The ALB has an SSL certificate from AWS Certificate Manager (ACM) with a custom domain name. The game is written in JavaScript and runs entirely in a user's web browser. The game is increasing in popularity in many countries around the world. The company wants to update the application architecture and optimize costs without compromising performance. What should a solutions architect do to meet these requirements?

- A. Use Amazon CloudFront and create a global distribution that points to the ALB. Reuse the existing certificate from ACM for the CloudFront distribution. Use Amazon Route 53 to update the application alias to point to the distribution.
- B. Use AWS CloudFormation to deploy the application stack to AWS Regions near countries where the game is popular. Use ACM to create a new certificate for each application instance. Use Amazon Route 53 with a geolocation routing policy to direct traffic to the local application instance.

C. Use Amazon S3 and create an S3 bucket in AWS Regions near countries where the game is popular. Deploy the HTML and JavaScript files to each S3 bucket. Use ACM to create a new certificate for each S3 bucket. Use Amazon Route 53 with a geolocation routing policy to direct traffic to the local S3 bucket.

D. Use Amazon S3 and create an S3 bucket in us-west-2. Deploy the HTML and JavaScript files to the S3 bucket. Use Amazon CloudFront and create a global distribution with the S3 bucket as the origin. Use ACM to create a new certificate for the distribution. Use Amazon Route 53 to update the application alias to point to the distribution.

正确答案 A

Q679. A solutions architect needs to design a system to store client case files. The files are core company assets and are important. The number of files will grow over time. The files must be simultaneously accessible from multiple application servers that run on Amazon EC2 instances. The solution must have built-in redundancy. Which solution meets these requirements?

A. Amazon Elastic File System (Amazon EFS)

B. Amazon Elastic Block Store (Amazon EBS)

C. Amazon S3 Glacier Deep Archive

D. AWS Backup

正确答案 A

Q680. A company is running an application on Amazon EC2 instances. Traffic to the workload increases substantially during business hours and decreases afterward. The CPU utilization of an EC2 instance is a strong indicator of end-user demand on the application. The company has configured an Auto Scaling group to have a minimum group size of 2 EC2

instances and a maximum group size of 10 EC2 instances. The company is concerned that the current scaling policy that is associated with the Auto Scaling group might not be correct. The company must avoid over-provisioning EC2 instances and incurring unnecessary costs. What should a solutions architect recommend to meet these requirements?

- A. Configure Amazon EC2 Auto Scaling to use a scheduled scaling plan and launch an additional 8 EC2 instances during business hours.
- B. Configure AWS Auto Scaling to use a scaling plan that enables predictive scaling. Configure predictive scaling with a scaling mode of forecast and scale, and to enforce the maximum capacity setting during scaling.
- C. Configure a step scaling policy to add 4 EC2 instances at 50% CPU utilization and add another 4 EC2 instances at 90% CPU utilization. Configure scale-in policies to perform the reverse and remove EC2 instances based on the two values.
- D. Configure AWS Auto Scaling to have a desired capacity of 5 EC2 instances, and disable any existing scaling policies. Monitor the CPU utilization metric for 1 week. Then create dynamic scaling policies that are based on the observed values.

正确答案 A

Q681. A company recently launched a new service that involves medical images. The company scans the images and sends them from its on-premises data center through an AWS Direct Connect connection to Amazon EC2 instances. After processing is complete, the images are stored in an Amazon S3 bucket. A company requirement states that the EC2 instances cannot be accessible through the internet. The EC2 instances run in a private subnet, which has a default route back to the on-premises data center for outbound internet access. Usage of the new service is increasing rapidly. A solutions architect must recommend a solution that

meets the company's requirements and reduces the Direct Connect charges. Which solution accomplishes these goals MOST cost-effectively?

- A. Configure a VPC endpoint for Amazon S3. Add an entry to the private subnet's route table for the S3 endpoint.
- B. Configure a NAT gateway in a public subnet. Configure the private subnet's route table to use the NAT gateway.
- C. Configure Amazon S3 as a file system mount point on the EC2 instances. Access Amazon S3 through the mount.
- D. Move the EC2 instances into a public subnet. Configure the public subnet route table to point to an internet gateway.

正确答案 A

Q682. An Amazon EC2 instance is located in a private subnet in a new VPC. This subnet does not have outbound internet access, but the EC2 instance needs the ability to download monthly security updates from an outside vendor. What should a solutions architect do to meet these requirements?

- A. Create an internet gateway, and attach it to the VPC. Configure the private subnet route table to use the internet gateway as the default route.
- B. Create a NAT gateway, and place it in a public subnet. Configure the private subnet route table to use the NAT gateway as the default route.
- C. Create a NAT instance, and place it in the same subnet where the EC2 instance is located. Configure the private subnet route table to use the NAT instance as the default route.
- D. Create an internet gateway, and attach it to the VPC. Create a NAT instance, and place it in the same subnet where the EC2 instance is located. Configure the private subnet route table to use the internet gateway as the default route.

正确答案 B

Q683. A company is deploying an application that processes streaming data in near-real time. The company plans to use Amazon EC2 instances for the workload. The network architecture must be configurable to provide the lowest possible latency between nodes. Which combination of network solutions will meet these requirements? (Select TWO.)

- A. Enable and configure enhanced networking on each EC2 instance.
- B. Group the EC2 instances in separate accounts.
- C. Run the EC2 instances in a cluster placement group.
- D. Attach multiple elastic network interfaces to each EC2 instance.
- E. Use Amazon Elastic Block Store (Amazon EBS) optimized instance types.

正确答案 A, C

Q684. A company is running a web application on Amazon EC2 instances in an Auto Scaling group. The application uses a database that runs on an Amazon RDS for PostgreSQL DB instance. The application performs slowly as traffic increases, and the database experiences a heavy read load during periods of high traffic. Which actions should a solutions architect take to resolve these performance issues? (Select TWO.)

- A. Enable auto scaling for the DB instance.
- B. Create a read replica for the DB instance. Configure the application to send read traffic to the read replica.
- C. Enable Multi-AZ for the DB instance. Configure the application to send read traffic to the standby DB instance.
- D. Create an Amazon ElastiCache cluster. Configure the application to cache query results in the ElastiCache cluster.

E. Configure the Auto Scaling group subnets to ensure that the EC2 instances are provisioned in the same Availability Zone as the DB instance.

正确答案 B, D

Q685. A company needs to provide its employees with secure access to confidential and sensitive files. The company wants to ensure that the files can be accessed only by authorized users. The files must be downloaded securely to the employees' devices. The files are stored in an on-premises Windows file server. However, due to an increase in remote usage, the file server is running out of capacity. Which solution will meet these requirements?

A. Migrate the file server to an Amazon EC2 instance in a public subnet. Configure the security group to limit inbound traffic to the employees' IP addresses

B. Migrate the files to an Amazon FSx for Windows File Server file system. Integrate the Amazon FSx file system with the on-premises Active Directory. Configure AWS Client VPN.

C. Migrate the files to Amazon S3, and create a private VPC endpoint. Create a signed URL to allow download.

D. Migrate the files to Amazon S3, and create a public VPC endpoint. Allow employees to sign on with AWS Single Sign-on.

正确答案 B

Q686. A company is testing an application that runs on an Amazon EC2 Linux instance. The instance contains a data volume of 500 GB that consists of a single Amazon Elastic Block Store (Amazon EBS) General Purpose SSD (gp2) volume. The application is now ready for production use and will be installed on multiple EC2 instances that run in an Auto

Scaling group. All instances need access to the data that was stored on the 500 GB volume. The company needs a highly available and fault-tolerant solution that does not introduce any significant changes to the application's code. Which solution meets these requirements?

- A. Provision an EC2 instance with NFS server software that is configured with a single 500 GB gp2 volume.
- B. Use an Amazon FSx for Windows File Server file system that is configured as an SMB file store within a single Availability Zone.
- C. Migrate the data into an Amazon S3 bucket. Use an EC2 instance profile to access the contents of the bucket.
- D. Use an Amazon Elastic File System (Amazon EFS) file system that is configured with the General Purpose performance mode.

正确答案 D

Q687. A company is building a mobile app on AWS. The company wants to expand its reach to millions of users. The company needs to build a platform so that authorized users can watch the company's content on their mobile devices. What should a solutions architect recommend to meet these requirements?

- A. Publish content to a public Amazon S3 bucket. Use AWS Key Management Service (AWS KMS) keys to stream content.
- B. Set up IPsec VPN between the mobile app and the AWS environment to stream content.
- C. Use Amazon CloudFront. Provide signed URLs to stream content.
- D. Set up AWS Client VPN between the mobile app and the AWS environment to stream content.

正确答案 C

Q688. A company receives data from millions of users totaling about 1 TB each day. The company provides its users with usage reports going back 12 months. All usage data must be stored for at least 5 years to comply with regulatory and auditing requirements. Which storage solution is MOST cost-effective?

- A. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 Glacier Deep Archive after 1 year. Set a lifecycle rule to delete the data after 5 years
- B. Store the data in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA). Set a lifecycle rule to transition the data to S3 Glacier after 1 year. Set the lifecycle rule to delete the data after 5 years.
- C. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 Standard- Infrequent Access (S3 Standard-IA) after 1 year. Set a lifecycle rule to delete the data after 5 years.
- D. Store the data in Amazon S3 Standard. Set a lifecycle rule to transition the data to S3 One Zone- Infrequent Access (S3 One Zone-IA) after 1 year. Set a lifecycle rule to delete the data after 5 years.

正确答案 B

Q689. A company has an application that calls AWS Lambda functions. A code review shows that database credentials are stored in a Lambda function's source code, which violates the company's security policy. The credentials must be securely stored and must be automatically rotated on an ongoing basis to meet security policy requirements. What should a solutions architect recommend to meet these requirements in the MOST secure manner?

- A. Store the password in AWS CloudHSM Associate the Lambda function with a role that can use the key ID to retrieve the password from CloudHSM. Use CloudHSM to automatically rotate the password.

B. Store the password in AWS Secrets Manager. Associate the Lambda function with a role that can use the secret ID to retrieve the password from Secrets Manager. Use Secrets Manager to automatically rotate the password.

C. Store the password in AWS Key Management Service (AWS KMS) Associate the Lambda function with a role that can use the key ID to retrieve the password from AWS KMS. Use AWS KMS to automatically rotate the uploaded password.

D. Move the database password to an environment variable that is associated with the Lambda function. Retrieve the password from the environment variable by invoking the function. Create a deployment script to automatically rotate the password.

正确答案 B

Q690. A social media company is building a feature for its website. The feature will give users the ability to upload photos. The company expects significant increases in demand during large events and must ensure that the website can handle the upload traffic from users. Which solution meets these requirements with the MOST scalability?

A. Upload files from the user's browser to the application servers Transfer the files to an Amazon S3 bucket.

B. Provision an AWS Storage Gateway file gateway Upload files directly from the users browser to the file gateway.

C. Generate Amazon S3 presigned URLs in the application Upload files directly from the user's browser into an S3 bucket.

D. Provision an Amazon Elastic File System (Amazon EFS) file system. Upload files directly from the user's browser to the file system.

正确答案 C

Q691. A company needs the ability to analyze the log files of its proprietary application. The logs are stored in JSON format in an Amazon S3 bucket. Queries will be simple and will run on-demand. A solutions architect needs to perform the analysis with minimal changes to the existing architecture. What should the solutions architect do to meet these requirements with the LEAST amount of operational overhead?

- A. Use Amazon Redshift to load all the content into one place and run the SQL queries as needed
- B. Use Amazon CloudWatch Logs to store the logs. Run SQL queries as needed from the Amazon CloudWatch console.
- C. Use Amazon Athena directly with Amazon S3 to run the queries as needed
- D. Use AWS Glue to catalog the logs. Use a transient Apache Spark cluster on Amazon EMR to run the SQL queries as needed.

正确答案 C

Q692. A company uses a payment processing system that requires messages for a particular payment ID to be received in the same order that they were sent. Otherwise, the payments might be processed incorrectly. Which actions should a solutions architect take to meet this requirement?
(Select TWO)

- A. Write the messages to an Amazon DynamoDB table with the payment ID as the partition key
- B. Write the messages to an Amazon Kinesis data stream with the payment ID as the partition key
- C. Write the messages to an Amazon ElastiCache for Memcached cluster with the payment ID as the key
- D. Write the messages to an Amazon Simple Queue Service (Amazon SQS) queue. Set the message attribute to use the payment ID.

E. Write the messages to an Amazon Simple Queue Service (Amazon SQS) FIFO queue. Set the message group to use the payment ID.

正确答案 C, E

Q693. A company runs a three-tier web application in a VPC across multiple Availability Zones. Amazon EC2 instances run in an Auto Scaling group for the application tier. The company needs to make an automated scaling plan that will analyze each resource's daily and weekly historical workload trends. The configuration must scale resources appropriately according to both the forecast and live changes in utilization. Which scaling strategy should a solutions architect recommend to meet these requirements?

- A. Implement dynamic scaling with step scaling based on average CPU utilization from the EC2 instances.
- B. Enable predictive scaling to forecast and scale. Configure dynamic scaling with target tracking.
- C. Create an automated scheduled scaling action based on the traffic patterns of the web application.
- D. Set up a simple scaling policy. Increase the cooldown period based on the EC2 instance startup time.

正确答案 B

Q694. A media company is using two video conversion tools that run on Amazon EC2 instances. One tool runs on Windows instances, and the other tool runs on Linux instances. Each video file is large in size and must be processed by both tools. The company needs a storage solution that can provide a centralized file system that can be mounted on all the EC2 instances that are used in this process. Which solution meets these requirements?

- A. Use Amazon FSx for Windows File Server for the Windows instances Use Amazon Elastic File System (Amazon EFS) with Max VO performance mode for the Linux instances.
- B. Use Amazon FSx for Windows File Server for the Windows instances Use Amazon FSx for Lustre for the Linux instances. Link both Amazon FSx file systems to the same Amazon S3 bucket
- C. Use Amazon Elastic File System (Amazon EFS) with General Purpose performance mode for the Windows instances and the Linux instances.
- D. Use Amazon FSx for Windows File Server for the Windows instances and the Linux instances

正确答案 B

Q695. A company is developing a new online gaming application. The application will run on Amazon EC2 instances in multiple AWS Regions and will have a high number of globally distributed users. A solutions architect must design the application to optimize network latency for the users. Which actions should the solutions architect take to meet these requirements? (Select TWO.)

- A. Configure AWS Global Accelerator. Create Regional endpoint groups in each Region where an EC2 fleet is hosted
- B. Create a content delivery network (CDN) by using Amazon CloudFront. Enable caching for static and dynamic content, and specify a high expiration period.
- C. Integrate AWS Client VPN into the application. Instruct users to select which Region is closest to them after they launch the application. Establish a VPN connection to that Region.
- D. Create an Amazon Route 53 weighted routing policy. Configure the routing policy to give the highest weight to the EC2 instances in the Region that has the largest number of users.

E. Configure an Amazon API Gateway endpoint in each Region where an EC2 fleet is hosted. Instruct users to select which Region is closest to them after they launch the application. Use the API Gateway endpoint that is closest to them.

正确答案 B, E

Q696. A company is running a global application. The application's users submit multiple videos that are then merged into a single video file. The application uses a single Amazon S3 bucket in the us-east-1 Region to receive uploads from users. The same S3 bucket provides the download location of the single video file that is produced. The final video file output has an average size of 250 GB. The company needs to develop a solution that delivers faster uploads and downloads of the video files that are stored in Amazon S3. The company will offer the solution as a subscription to users who want to pay for the increased speed. What should a solutions architect do to meet these requirements?

A. Enable AWS Global Accelerator for the S3 endpoint. Adjust the application's upload and download links to use the Global Accelerator S3 endpoint for users who have a subscription

B. Enable S3Cross-Region Replication to S3 buckets in all other AWS Regions. Use an Amazon Route 53 geolocation routing policy to route S3 requests based on the location of users who have a subscription.

C. Create an Amazon CloudFront distribution, and use the S3 bucket in us-east-1 as an origin. Adjust the application to use the CloudFront URL as the upload and download links for users who have a subscription.

D. Enable S3 Transfer Acceleration for the S3 bucket in us-east-1. Configure the application to use the bucket's S3-accelerate endpoint domain name for the upload and download links for users who have a subscription.

正确答案 D

Q697. A company's facility has badge readers at every entrance throughout the building. When badges are scanned, the readers send a message over HTTPS to indicate who attempted to access that particular entrance. A solutions architect must design a system to process these messages from the sensors. The solution must be highly available, and the results must be made available for the company's security team to analyze. Which system architecture should the solutions architect recommend?

- A. Launch an Amazon EC2 instance to serve as the HTTPS endpoint and to process the messages. Configure the EC2 instance to save the results to an Amazon S3 bucket.
- B. Create an HTTPS endpoint in Amazon API Gateway. Configure the API Gateway endpoint to invoke an AWS Lambda function to process the messages and save the results to an Amazon DynamoDB table.
- C. Use Amazon Route 53 to direct incoming sensor messages to an AWS Lambda function. Configure the Lambda function to process the messages and save the results to an Amazon DynamoDB table.
- D. Create a gateway VPC endpoint for Amazon S3. Configure a Site-to-Site VPN connection from the facility network to the VPC so that sensor data can be written directly to an S3 bucket by way of the VPC endpoint.

正确答案 B

Q698. A company is planning to run a group of Amazon EC2 instances that connect to an Amazon Aurora database. The company has built an AWS CloudFormation template to deploy the EC2 instances and the Aurora DB cluster. The company wants to allow the instances to authenticate to the database in a secure way. The company does not want to maintain static

database credentials. Which solution meets these requirements with the LEAST operational effort?

- A. Create a database user with a user name and password. Add parameters for the database user name and password to the CloudFormation template. Pass the parameters to the EC2 instances when the instances are launched.
- B. Create a database user with a user name and password. Store the user name and password in AWS Systems Manager Parameter Store. Configure the EC2 instances to retrieve the database credentials from Parameter Store.
- C. Configure the DB cluster to use IAM database authentication. Create a database user to use with IAM authentication. Associate a role with the EC2 instances to allow applications on the instances to access the database.
- D. Configure the DB cluster to use IAM database authentication with an IAM user. Create a database user that has a name that matches the IAM user. Associate the IAM user with the EC2 instances to allow applications on the instances to access the database.

正确答案 B

Q699. A company hosts a two-tier website that runs on Amazon EC2 instances. The website has a database that runs on Amazon RDS for MySQL. All users are required to log in to the website to see their own customized pages. The website typically experiences low traffic. Occasionally, the website experiences sudden increases in traffic and becomes unresponsive. During these increases in traffic, the database experiences a heavy write load. A solutions architect must improve the website's availability without changing the application code. What should the solutions architect do to meet these requirements?

- A. Create an Amazon ElastiCache for Redis cluster. Configure the application to cache common database queries in the ElastiCache cluster.

- B. Create an Auto Scaling group. Configure Amazon CloudWatch alarms to scale the number of EC2 instances based on the percentage of CPU in use during the traffic increases
- C. Create an Amazon CloudFront distribution that points to the EC2 instances as the origin. Enable caching of dynamic content, and configure a write throttle from the EC2 instances to the RDS database.
- D. Migrate the database to an Amazon Aurora Serverless cluster. Set the maximum Aurora capacity units (ACUs) to a value high enough to respond to the traffic increases. Configure the EC2 instances to connect to the Aurora database.

正确答案 A

Q700. A company uses Amazon RDS for PostgreSQL databases for its data tier. The company must implement password rotation for the databases. Which solution meets this requirement with the LEAST operational overhead?

- A. Store the password in AWS Secrets Manager. Enable automatic rotation on the secret
- B. Store the password in AWS Systems Manager Parameter Store. Enable automatic rotation on the parameter.
- C. Store the password in AWS Systems Manager Parameter Store. Write an AWS Lambda function that rotates the password.
- D. Store the password in AWS Key Management Service (AWS KMS). Enable automatic rotation on the customer master key (CMK).

正确答案 A

Q701. A solutions architect is designing the cloud architecture for a new application that is being deployed on AWS. The application's users

will interactively download and upload files. Files that are more than 90 days old will be accessed less frequently than newer files, but all files need to be instantly available. The solutions architect must ensure that the application can scale to store petabytes of data with maximum durability. Which solution meets these requirements?

- A. Store the files in Amazon S3 Standard. Create an S3 Lifecycle policy that moves objects that are more than 90 days old to S3 Glacier.
- B. Store the files in Amazon S3 Standard. Create an S3 Lifecycle policy that moves objects that are more than 90 days old to S3 Standard-Infrequent Access (S3 Standard-IA).
- C. Store the files in Amazon Elastic Block Store (Amazon EBS) volumes. Schedule snapshots of the volumes. Use the snapshots to archive data that is more than 90 days old.
- D. Store the files in RAID-striped Amazon Elastic Block Store (Amazon EBS) volumes. Schedule snapshots of the volumes. Use the snapshots to archive data that is more than 90 days old.

正确答案 B

Q702. A company is building an application that consists of several microservices. The company has decided to use container technologies to deploy its software on AWS. The company needs a solution that minimizes the amount of ongoing effort for maintenance and scaling. The company cannot manage additional infrastructure. Which combination of actions should a solutions architect take to meet these requirements? (Select TWO)

- A. Deploy an Amazon Elastic Container Service (Amazon ECS) cluster
- B. Deploy the Kubernetes control plane on Amazon EC2 instances that span multiple Availability Zones.

C. Deploy an Amazon Elastic Container Service (Amazon ECS) service with an Amazon EC2 launch type. Specify a desired task number level of greater than or equal to 2.

D. Deploy an Amazon Elastic Container Service (Amazon ECS) service with a Fargate launch type. Specify a desired task number level of greater than or equal to 2.

E. Deploy Kubernetes worker nodes on Amazon EC2 instances that span multiple Availability Zones. Create a deployment that specifies two or more replicas for each microservice.

正确答案 A, D

Q703. A company with a single AWS account runs its internet-facing containerized web application on an Amazon Elastic Kubernetes Service (Amazon EKS) cluster. The EKS cluster is placed in a private subnet of a VPC. System administrators access the EKS cluster through a bastion host on a public subnet. A new corporate security policy requires the company to avoid the use of bastion hosts. The company also must not allow internet connectivity to the EKS cluster. Which solution meets these requirements MOST cost-effectively?

A. Set up an AWS Direct Connect connection.

B. Create a transit gateway

C. Establish a vPN connection

D. Use AWS Storage Gateway

正确答案 C

Q704. A company is using a centralized AWS account to store log data in various Amazon S3 buckets. A solutions architect needs to ensure that the data is encrypted at rest before the data is uploaded to the S3

buckets. The data also must be encrypted in transit. Which solution meets these requirements?

- A. Use client-side encryption to encrypt the data that is being uploaded to the S3 buckets.
- B. Use server-side encryption to encrypt the data that is being uploaded to the S3 buckets.
- C. Create bucket policies that require the use of server-side encryption with S3 managed encryption keys (SSE-S3) for S3 uploads.
- D. Enable the security option to encrypt the S3 buckets through the use of a default AWS Key Management Service (AWS KMS) key.

正确答案 A

Q705. An ecommerce company is creating an application that requires a connection to a third-party payment service to process payments. The payment service needs to explicitly allow the public IP address of the server that is making the payment request. However, the company's security policies do not allow any server to be exposed directly to the public internet. Which solution will meet these requirements?

- A. Provision an Elastic IP address. Host the application servers on Amazon EC2 instances in a private subnet. Assign the public IP address to the application servers
- B. Create a NAT gateway in a public subnet. Host the application servers on Amazon EC2 instances in a private subnet. Route payment requests through the NAT gateway.
- C. Deploy an Application Load Balancer (ALB). Host the application servers on Amazon EC2 instances in a private subnet. Route the payment requests through the ALB.

D. Set up an AWS Client VPN connection to the payment service. Host the application servers on Amazon EC2 instances in a private subnet. Route the payment requests through the VPN.

正确答案 B

Q706. A company is concerned about the security of its public web application due to recent web attacks. The application uses an Application Load Balancer (ALB). A solutions architect must reduce the risk of DDoS attacks against the application. What should the solutions architect do to meet this requirement?

- A. Add an Amazon Inspector agent to the ALB.
- B. Configure Amazon Macie to prevent attacks.
- C. Enable AWS Shield Advanced to prevent attacks.
- D. Configure Amazon GuardDuty to monitor the ALB.

正确答案 C

Q707. A company wants to deploy a new public web application on AWS. The application includes a web server tier that uses Amazon EC2 instances. The application also includes a database tier that uses an Amazon RDS for MySQL DB instance. The application must be secure and accessible for global customers that have dynamic IP addresses. How should a solutions architect configure the security groups to meet these requirements?

- A. Configure the security group for the web servers to allow inbound traffic on port 443 from 0.0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers.
- B. Configure the security group for the web servers to allow inbound traffic on port 443 from the IP addresses of the customers. Configure

the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers.

C. Configure the security group for the web servers to allow inbound traffic on port 443 from the IP addresses of the customers. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the IP addresses of the customers.

D. Configure the security group for the web servers to allow inbound traffic on port 443 from 00.0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from 0.0.0.0/0.

正确答案 A

Q708. A company hosts a website on Amazon EC2 instances behind an Application Load Balancer (ALB). The website serves static content. Website traffic is increasing, and the company is concerned about a potential increase in cost. What should a solutions architect do to reduce the cost of the website?

A. Create an Amazon CloudFront distribution to cache static files at edge locations.

B. Create an Amazon ElastiCache cluster. Connect the ALB to the ElastiCache cluster to serve cached files.

C. Create an AWS WAF web ACL, and associate it with the ALB. Add a rule to the web ACL to cache static files.

D. Create a second ALB in an alternative AWS Region. Route user traffic to the closest Region to minimize data transfer costs.

正确答案 A

Q709. A company has two VPCs that are located in the us-west-2 Region within the same AWS account. The company needs to allow network traffic

between these VPCs. Approximately 500 GB of data transfer will occur between the VPCs each month. What is the most cost-effective solution to connect these VPCs?

- A. Implement AWS Transit Gateway to connect the VPCs. Update the route tables of each VPC to use the transit gateway for inter-VPC communication.
- B. Implement an AWS Site-to-Site VPN tunnel between the VPCs. Update the route tables of each VPC to use the VPN tunnel for inter-VPC communication.
- C. Set up a VPC peering connection between the VPCs. Update the route tables of each VPC to use the VPC peering connection for inter-VPC communication.
- D. Set up a 1 GB AWS Direct Connect connection between the VPCs. Update the route tables of each VPC to use the Direct Connect connection for inter-VPC communication.

正确答案 C

Q710. A company is using AWS Organizations with two AWS accounts: Logistics and Sales. The Logistics account operates an Amazon Redshift cluster. The Sales account includes Amazon EC2 instances. The Sales account needs to access the Logistics account's Amazon Redshift cluster. What should a solutions architect recommend to meet this requirement MOST cost-effectively?

- A. Set up VPC sharing with the Logistics account as the owner and the Sales account as the participant to transfer the data.
- B. Create an AWS Lambda function in the Logistics account to transfer data to the Amazon EC2 instances in the Sales account.
- C. Create a snapshot of the Amazon Redshift cluster, and share the snapshot with the Sales account. In the Sales account, restore the

cluster by using the snapshot ID that is shared by the Logistics account.

D. Run COPY commands to load data from Amazon Redshift into Amazon S3 buckets in the Logistics account. Grant permissions to the Sales account to access the S3 buckets of the Logistics account.

正确答案 D

Q711. A solutions architect is designing the architecture for a company website that is composed of static content. The company's target customers are located in the United States and Europe. Which architecture should the solutions architect recommend to MINIMIZE cost?

A. Store the website files on Amazon S3 in the us-east-2 Region. Use an Amazon CloudFront distribution with the price class configured to limit the edge locations in use.

B. Store the website files on Amazon S3 in the us-east-2 Region. Use an Amazon CloudFront distribution with the price class configured to maximize the use of edge locations.

C. Store the website files on Amazon S3 in the us-east-2 Region and the eu-west-1 Region. Use an Amazon CloudFront geolocation routing policy to route requests to the closest Region to the user.

D. Store the website files on Amazon S3 in the us-east-2 Region and the eu-west-1 Region. Use an Amazon CloudFront distribution with an Amazon Route 53 latency routing policy to route requests to the closest Region to the user.

正确答案 B

Q712. A company is using Amazon Redshift for analytics and to generate customer reports. The company recently acquired 50 TB of additional customer demographic data. The data is stored in csv files in Amazon S3.

The company needs a solution that joins the data and visualizes the results with the least possible cost and effort. What should a solutions architect recommend to meet these requirements?

- A. Use Amazon Redshift Spectrum to query the data in Amazon S3 directly and join that data with the existing data in Amazon Redshift. Use Amazon QuickSight to build the visualizations.
- B. Use Amazon Athena to query the data in Amazon S3. Use Amazon QuickSight to join the data from Athena with the existing data in Amazon Redshift and to build the visualizations
- C. Increase the size of the Amazon Redshift cluster, and load the data from Amazon S3. Use Amazon EMR Notebooks to query the data and build the visualizations in Amazon Redshift
- D. Export the data from the Amazon Redshift cluster into Apache Parquet files in Amazon S3. Use Amazon Elasticsearch Service (Amazon ES) to query the data. Use Kibana to visualize the results.

正确答案 B

Q713. A solutions architect is designing a multi-tier application for a company. The application's users upload images from a mobile device. The application generates a thumbnail of each image and returns a message to the user to confirm that the image was uploaded successfully. The thumbnail generation can take up to 60 seconds, but the company wants to provide a faster response time to its users to notify them that the original image was received. The solutions architect must design the application to asynchronously dispatch requests to the different application tiers. What should the solutions architect do to meet these requirements?

- A. Write a custom AWS Lambda function to generate the thumbnail and alert the user. Use the image upload process as an event source to invoke the Lambda function.

- B. Create an AWS Step Functions workflow Configure Step Functions to handle the orchestration between the application tiers and alert the user when thumbnail generation is complete.
- C. Create an Amazon Simple Queue Service (Amazon SQS) message queue. As images are uploaded, place a message on the SQS queue for thumbnail generation. Alert the user through an application message that the image was received.
- D. Create Amazon Simple Notification Service (Amazon SNS) notification topics and subscriptions. Use one subscription with the application to generate the thumbnail after the image upload is complete. Use a second subscription to message the user's mobile app by way of a push notification after thumbnail generation is complete .

正确答案 D

Q714. A company is migrating its applications to AWS. Currently, applications that run on premises generate hundreds of terabytes of data that is stored on a shared file system. The company is running an analytics application in the cloud that runs hourly to generate insights from this data. The company needs a solution to handle the ongoing data transfer between the on-premises shared file system and Amazon S3. The solution also must be able to handle occasional interruptions in internet connectivity. Which solution should the company use for the data transfer to meet these requirements?

- A. AWS DataSync
- B. AWS Migration Hub
- C. AWS Snowball Edge Storage Optimized
- D. AWS Transfer for SFTP

正确答案 D

Q715. A company uses GPS trackers to document the migration patterns of thousands of sea turtles. The trackers check every 5 minutes to see if a turtle has moved more than 100 yards (91.4 meters). If a turtle has moved, its tracker sends the new coordinates to a web application running on three Amazon EC2 instances that are in multiple Availability Zones in one AWS RegionRecently, the web application was overwhelmed while processing an unexpected volume of tracker data. Data was lost with no way to replay the events. A solutions architect must prevent this problem from happening again and needs a solution with the least operational overhead. What should the solutions architect do to meet these requirements?

- A. Create an Amazon S3 bucket to store the data Configure the application to scan for new data in the bucket for processing.
- B. Create an Amazon API Gateway endpoint to handle transmitted location coordinates. Use an AWS Lambda function to process each item concurrently.
- C. Create an Amazon Simple Queue Service (Amazon SQS) queue to store the incoming data Configure the application to poll for new messages for processing.
- D. Create an Amazon DynamoDB table to store transmitted location coordinates. Configure the application to query the table for new data for processing. Use TTL to remove data that has been processed.

正确答案 C

Q716. A company is using a content management system that runs on a single Amazon EC2 instance. The EC2 instance contains both the web server and the database software. The company must make its website platform highly available and must enable the website to scale to meet user demand. What should a solutions architect recommend to meet these requirements?

- A. Move the database to Amazon RDS, and enable automatic backups. Manually launch another EC2 instance in the same Availability Zone. Configure an Application Load Balancer in the Availability Zone, and set the two instances as targets.
- B. Migrate the database to an Amazon Aurora instance with a read replica in the same Availability Zone as the existing EC2 instance. Manually launch another EC2 instance in the same Availability Zone. Configure an Application Load Balancer, and set the two EC2 instances as targets.
- C. Move the database to Amazon Aurora with a read replica in another Availability Zone. Create an Amazon Machine Image (AMI) from the EC2 instance. Configure an Application Load Balancer in two Availability Zones. Attach an Auto Scaling group that uses the AMI across two Availability Zones.
- D. Move the database to a separate EC2 instance, and schedule backups to Amazon S3. Create an Amazon Machine Image (AMI) from the original EC2 instance. Configure an Application Load Balancer in two Availability Zones. Attach an Auto Scaling group that uses the AMI across two Availability Zones.

正确答案 C

Q717. A solutions architect at a company is designing the architecture for a two-tiered web application. The web application is composed of an internet-facing Application Load Balancer (ALB) that forwards traffic to an Auto Scaling group of Amazon EC2 instances. The EC2 instances must be able to access a database that runs on Amazon RDS. The company has requested a defense-in-depth approach to the network layout. The company does not want to rely solely on security groups or network ACLs. Only the minimum resources that are necessary should be routable from the internet. Which network design should the solutions architect recommend to meet these requirements?

- A. Place the ALB, EC2 instances, and RDS database in private subnets

- B. Place the ALB in public subnets. Place the EC2 instances and RDS database in private subnets
- C. Place the ALB and EC2 instances in public subnets. Place the RDS database in private subnets
- D. Place the ALB outside the VPC. Place the EC2 instances and RDS database in private subnets

正确答案 B

Q718. A company has a multi-tier payment processing application that is based on virtual machines (VMs). The communication between the tiers occurs asynchronously through a third-party middleware solution that guarantees exactly-once delivery. The company needs a solution that requires the least amount of infrastructure management. The solution must guarantee exactly-once delivery for application messaging. Which combination of actions will meet these requirements? (Select TWO)

- A. Use AWS Lambda for the compute layers in the architecture
- B. Use Amazon EC2 instances for the compute layers in the architecture
- C. Use Amazon Simple Notification Service (Amazon SNS) as the messaging component between the compute layers
- D. Use Amazon Simple Queue Service (Amazon SQS) FIFO queues as the messaging component between the compute layers
- E. Use containers that are based on Amazon Elastic Kubernetes Service (Amazon EKS) for the compute layers in the architecture

正确答案 A, D

Q719. A company has saved 5 years of data in an Amazon S3 bucket. The data is stored in structured objects for multiple tables. The company needs a solution that will run complex queries on multiple joined tables.

as quickly as possible. The solution also must minimize operational overhead. Which solution meets these requirements?

- A. Use Amazon Athena on Amazon S3 to perform the queries.
- B. Use AWS Glue to transform the data into Amazon Redshift tables. Then perform the queries.
- C. Use Amazon QuickSight to create an interactive dashboard that queries the data.
- D. Use a transient Apache Spark cluster on Amazon EMR to perform the queries.

正确答案 A

Q720. A company recently migrated its entire IT environment to the AWS Cloud. The company discovers that users are provisioning oversized Amazon EC2 instances and modifying security group rules without using the appropriate change control process. A solutions architect must devise a strategy to track and audit these inventory and configuration changes. Which actions should the solutions architect take to meet these requirements? (Select TWO)

- A. Enable AWS CloudTrail and use it for auditing.
- B. Use data lifecycle policies for the Amazon EC2 instances.
- C. Enable AWS Trusted Advisor and reference the security dashboard.
- D. Enable AWS Config and create rules for auditing and compliance purposes.
- E. Restore previous resource configurations with an AWS CloudFormation template.

正确答案 A, D

Q721. A company is designing a new application that runs in a VPC on Amazon EC2 instances. The application stores data in Amazon S3 and uses Amazon DynamoDB as its database. For compliance reasons, the company prohibits all traffic between the EC2 instances and other AWS services from passing over the public internet. What can a solutions architect do to meet this requirement?

- A. Configure gateway VPC endpoints to Amazon S3 and DynamoDB.
- B. Configure interface VPC endpoints to Amazon S3 and DynamoDB.
- C. Configure a gateway VPC endpoint to Amazon S3. Configure an interface VPC endpoint to DynamoDB.
- D. Configure a gateway VPC endpoint to DynamoDB. Configure an interface VPC endpoint to Amazon S3.

正确答案 A

Q722. A company's security team requests that network traffic be captured in VPC Flow Logs. The logs will be frequently accessed for 90 days and then accessed intermittently. What should a solutions architect do to meet these requirements when configuring the logs?

- A. Use Amazon CloudWatch as the target. Set the CloudWatch log group with an expiration of 90 days.
- B. Use Amazon Kinesis as the target. Configure the Kinesis stream to always retain the logs for 90 days.
- C. Use AWS CloudTrail as the target. Configure CloudTrail to save to an Amazon S3 bucket, and enable S3 Intelligent-Tiering.
- D. Use Amazon S3 as the target. Enable an S3 Lifecycle policy to transition the logs to S3 Standard- Infrequent Access (S3 Standard-IA) after 90 days.

正确答案 D

Q723. An events company has deployed a web application on Amazon Elastic Kubernetes Service (Amazon EKS). The application uses an Amazon DynamoDB table. The company has provisioned 1,000 read capacity units (RCUs) and 500 write capacity units (WCUs) for the DynamoDB table. The application performs eventually consistent reads against the table. The application's traffic is often low, but it occasionally grows significantly. During these sudden increases in traffic, DynamoDB returns throttling errors. The result is that error pages are displayed to end users. What should a solutions architect do to reduce these errors?

- A. Change the DynamoDB table to use on-demand capacity mode.
- B. Create a DynamoDB read replica to scale the read traffic horizontally
- C. Purchase DynamoDB reserved capacity of 1,000 RCUs and 500 WCUs.
- D. Configure the application to use strongly consistent reads for DynamoDB queries.

正确答案 A

Q724. A company is hosting an application in its own data center. The application uses Amazon S3 for data storage. The application transfers several hundred terabytes of data every month to and from Amazon S3. The company needs to minimize the cost of this data transfer. Which solution meets this requirement?

- A. Establish an AWS Direct Connect connection between the AWS Region in use and the company's data center. Route traffic to Amazon S3 over the Direct Connect connection.
- B. Establish an AWS Site-to-Site VPN connection between the company's data center and a VPC in the AWS Region in use. Create a VPC endpoint for

Amazon S3 in the VPC Route traffic to Amazon S3 over the VPN connection to the S3 endpoint.

- C. Create an AWS Storage Gateway file gateway. Deploy the software appliance in the company's data center. Configure the application to use the file gateway to store and retrieve files.
- D. Create an FTPS server by using AWS Transfer Family. Configure the application to use the FTPS server to store and retrieve files.

正确答案 C

Q725. A solutions architect is designing an infrastructure to run a web application on Amazon EC2 instances. The company wants to ensure high availability and adjust the number of running instances based on demand to optimize costs. What should the solutions architect do to meet these requirements?

- A. Configure an Application Load Balancer in front of an Auto Scaling group to deploy instances to multiple AWS Regions.
- B. Configure an Amazon CloudFront distribution in front of an Auto Scaling group to deploy instances to multiple AWS Regions.
- C. Configure an Application Load Balancer in front of an Auto Scaling group to deploy instances to multiple Availability Zones.
- D. Configure an Amazon API Gateway API in front of an Auto Scaling group to deploy instances to multiple Availability Zones.

正确答案 C

Q726. A company has an application running on Amazon EC2 instances in a private subnet. The application needs to store and retrieve data in Amazon S3. To reduce costs, the company wants to configure its AWS

resources in a cost-effective manner. How should the company accomplish this?

- A. Deploy a NAT gateway to access the S3 buckets
- B. Deploy AWS Storage Gateway to access the S3 buckets.
- C. Deploy an S3gateway endpoint to access the S3 buckets.
- D. Deploy an S3interface endpoint to access the S3 buckets.

正确答案 C

Q727. A global company currently gathers 100 GB of information daily from deployed sensors on smart devices with an average record size of 10 KB. A solutions architect must design a solution that allows real-time access to the data. What should the solutions architect do to meet these requirements?

- A. Configure each sensor to upload data directly to an Amazon EC2 instance in each AWS Region.
- B. Configure the sensors to use Amazon Kinesis Data Streams for batching and data collection.
- C. Provision an Amazon Snowball appliance and install the Snowball client to optimize the transfer speed.
- D. Deploy the website on Amazon CloudFront and configure each device to upload data to the closest edge location.

正确答案 B

Q728. A company's ecommerce website is experiencing traffic spikes. During sales and promotional events, the traffic is high and the website is slow with occasional outages. When the web traffic is normal, the website performs as expected. The problem has been attributed to the

compute capacity of the web servers. The current architecture consists of two Amazon EC2 instances running behind an Application Load Balancer. A solutionsarchitect needs to design and quickly implement a cost-effective and scalable solution to improve the user experience.Which actions will achieve this?

- A. Add additional CPUs to the current EC2 instances to allow for more requests
- B. Configure multiple Elastic Load Balancers to handle the additional website traffic.
- C. Configure an AWS CloudFormation template to deploy additional EC2 instances, as needed.
- D. Configure an Auto Scaling group with an automatic scaling policy that adjusts the number of instances based upon the average CPU utilization metric.

正确答案 D

Q729. A company needs to meet a strict service level agreement (SLA) with its users for application availability. The primary application stack is hosted in the us-east-1 Region and a replica of the stack is in us-west-2 for disaster recovery. The company requires that no user traffic be served by the application stack in us-west-2 unless there is an issue with the application stack in us-east-1. What should a solutions architect do to meet the company's needs without manual intervention?

- A. Configure a weighted routing policy in Amazon Route 53. Set the weight of us-east-1 to 100 and us-west-2 to 0.
- B. Configure a weighted routing policy in Amazon Route 53. Set the weight of us-west-2 to 50 and us-east-1 to 50.
- C. Configure a failover routing policy in Amazon Route 53. Set us-east-1as the primary and us-west-2 as the secondary.

D. Configure a failover routing policy in Amazon Route 53. Set us-west-2 as the primary and us-east-1 as the secondary.

正确答案 C

Q730. A company wants to expand its web services from us-east-1 into ap-southeast-1. The company stores a large amount of static content on its website, and recently received complaints about slow loading speeds and the website timing out. What should be done to meet the expansion goal while also addressing the latency and timeout issues?

A. Store the static content in Amazon S3 and enable S3 Transfer Acceleration.

B. Store the static content in an Amazon EBS volume in the ap-southeast-1 region and provision larger Amazon EC2 instances for the website.

C. Use an Amazon Route 53 simple routing policy to distribute cached content across three regions.

D. Use Amazon S3 to store the static content and configure an Amazon CloudFront distribution.

正确答案 A

Q731. A company has an application that generates invoices and makes the invoices available online. Invoices are stored as PDFs in an Amazon S3 bucket. Customers typically only view each invoice during the month it is issued. However, past invoices need to be immediately available. There are concerns over rising storage costs as the company gains more customers. What is the MOST cost-effective method to store the data?

A. Use Amazon S3 for current invoices. Set up lifecycle rules to migrate invoices to the GLACIER storage class after 30 days.

- B. Store the invoices as text files. Use Amazon CloudFront to convert the invoices from text to PDF when customers download invoices.
- C. Store the invoices as binaries in an Amazon RDS database instance. Retrieve them from the database when customers request invoices.
- D. Use Amazon S3 for current invoices. Set up lifecycle rules to migrate invoices to Amazon S3 Standard- Infrequent Access (S3 Standard-IA) after 30 days.

正确答案 D

Q732. A company has an application running on a single server in one Availability Zone. A solutions architect needs to improve the availability of this application as it grows in importance. Which set of actions would accomplish this?

- A. Deploy a second application instance in the same Availability Zone. Add the instances to Amazon Route 53 in a round-robin configuration.
- B. Deploy a second application instance in a public subnet in the same Availability Zone. Attach an Elastic IP address to both instances for high availability.
- C. Redeploy the application instance in an Amazon EC2 Auto Scaling group with a minimum of 1 and a maximum of 1. Use AWS CloudFormation to automate the deployment.
- D. Deploy an Elastic Load Balancer and a second application instance in a second Availability Zone. Attach both instances to the Elastic Load Balancer and route all traffic through the load balancer.

正确答案 D

Q733. A security team reviewed their company's VPC Flow Logs and found that traffic is being directed to the internet. The application in the

VPC uses Amazon EC2 instances for compute and Amazon S3 for storage. The company's goal is to eliminate internet access and allow the application to continue to function. What change should be made in the VPC before updating the route table?

- A. Create a NAT gateway for Amazon S3 access.
- B. Create a VPC endpoint for Amazon S3 access.
- C. Create a VPC endpoint for Amazon EC2 access.
- D. Create a NAT gateway for Amazon EC2 access.

正确答案 B

Q734. A company runs an infrastructure monitoring service. The company is building a new feature that will enable the service to monitor data in customer AWS accounts. The new feature will call AWS APIs in customer accounts to describe Amazon EC2 instances and read Amazon CloudWatch metrics. What should the company do to obtain access to customer accounts in the MOST secure way?

- A. Ensure that the customers create an IAM role in their account with read-only EC2 and CloudWatch permissions and a trust policy to the company's account.
- B. Create a serverless API that implements a token vending machine to provide temporary AWS credentials for a role with read-only EC2 and CloudWatch permissions.
- C. Ensure that the customers create an IAM user in their account with read-only EC2 and CloudWatch permissions. Encrypt and store customer access and secret keys in a secrets management system.
- D. Ensure that the customers create an Amazon Cognito user in their account to use an IAM role with read-only EC2 and CloudWatch permissions. Encrypt and store the Amazon Cognito user and password in a secrets management system.

正确答案 A

Q735. An online gaming company is designing a game that is expected to be popular all over the world. A solutions architect needs to define an AWS Cloud architecture that supports near-real-time recording and displaying of current game statistics for each player, along with the names of the top 25 players in the world, at any given time. Which AWS database solution and configuration should the solutions architect use to meet these requirements?

- A. Use Amazon RDS for MySQL as the data store for player activity. Configure the RDS DB instance for Multi-AZ support.
- B. Use Amazon DynamoDB as the data store for player activity. Configure DynamoDB Accelerator (DAX) for the player data
- C. Use Amazon DynamoDB as the data store for player activity. Configure global tables in each required AWS Region for the player data
- D. Use Amazon RDS for MySQL as the data store for player activity. Configure cross-Region read replicas in each required AWS Region based on player proximity.

正确答案 C

Q736. A company hosts a multi-tier web application that uses an Amazon Aurora MySQL DB cluster for storage. The application tier is hosted on Amazon EC2 instances. The company's IT security guidelines mandate that the database credentials be encrypted and rotated every 14 days. What should a solutions architect do to meet this requirement with the LEAST operational effort?

- A. Create a new AWS Key Management Service (AWS KMS) encryption key. Use AWS Secrets Manager to create a new secret that uses the KMS key with

the appropriate credentials. Associate the secret with the Aurora DB cluster. Configure a custom rotation period of 14 days.

B. Create two parameters in AWS Systems Manager Parameter Store. one for the user name as a string parameter and one that uses the Secure String type for the password. Select AWS Key Management Service (AWS KMS) encryption for the password parameter, and load these parameters in the application tier. Implement an AWS Lambda function that rotates the password every 14 days

C. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system in all EC2 instances of the application tier. Restrict the access to the file on the file system so that the application can read the file and that only super users can modify the file. Implement an AWS Lambda function that rotates the key in Aurora every 14 days and writes new credentials into the file.

D. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon S3 bucket that the application uses to load the credentials. Download the file to the application regularly to ensure that the correct credentials are used. Implement an AWS Lambda function that rotates the Aurora credentials every 14 days and uploads these credentials to the file in the S3 bucket.

正确答案 A

Q737. A company wants to provide users with access to AWS resources. The company has 1,500 users and manages their access to on-premises resources through Active Directory user groups on the corporate network. However, the company does not want users to have to maintain another identity to access the resources. A solutions architect must manage user access to the AWS resources while preserving access to the on-premises resources. What should the solutions architect do to meet these requirements?

- A. Create an IAM user for each user in the company. Attach the appropriate policies to each user.
- B. Use Amazon Cognito with an Active Directory user pool Create roles with the appropriate policies attached.
- C. Define cross-account roles with the appropriate policies attached. Map the roles to the Active Directory groups.
- D. Configure Security Assertion Markup Language (SAML) 2.0-based federation. Create roles with the appropriate policies attached. Map the roles to the Active Directory groups.

正确答案 D

Q738. A company has an application in which users create a large number of files. The company plans to migrate the application from its on-premises data center to AWS. Currently, the application uploads the files to a shared storage system. A separate fleet of servers then processes the files. Access to the files is controlled through Linux file system permissions. The company needs to migrate the fleet of servers to Amazon EC2 instances. The company must maximize storage scalability and durability without changing the code of the existing application. Which solution will meet these requirements?

- A. Migrate the files to an Amazon S3 bucket. Mount the S3 bucket on the EC2 instances.
- B. Migrate the files to a set of Amazon EC2 instance store volumes. Mount the instance store volumes on the EC2 instances.
- C. Migrate the files to a set of Amazon Elastic Block Store (Amazon EBS) volumes. Mount the EBS volumes on the EC2 instances.
- D. Migrate the files to an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system on the EC2 instances.

正确答案 D

Q739. A company has a customer relationship management (CRM) application that stores data in an Amazon RDS DB instance that runs Microsoft SQL Server. The company's IT staff has administrative access to the database. The database contains sensitive data. The company wants to ensure that the data is not accessible to the IT staff and that only authorized personnel can view the data. What should a solutions architect do to secure the data?

- A. Use client-side encryption with an Amazon RDS managed key
- B. Use client-side encryption with an AWS Key Management Service (AWS KMS) customer managed key
- C. Use Amazon RDS encryption with an AWS Key Management Service (AWS KMS) default encryption key
- D. Use Amazon RDS encryption with an AWS Key Management Service (AWS KMS) customer managed key

正确答案 C

Q740. A company has an application that collects data from IoT sensors on automobiles. The data is streamed and stored in Amazon S3 through Amazon Kinesis Data Firehose. The data produces trillions of S3 objects each year. Each morning, the company uses the data from the previous 30 days to retrain a suite of machine learning (ML) models. Four times each year, the company uses the data from the previous 12 months to perform analysis and train other ML models. The data must be available with minimal delay for up to 1 year. After 1 year, the data must be retained for archival purposes. Which storage solution meets these requirements MOST cost-effectively?

- A. Use the S3 Intelligent-Tiering storage class. Create an S3 Lifecycle policy to transition objects to S3 Glacier Deep Archive after 1 year
- B. Use the S3 Intelligent-Tiering storage class. Configure S3 Intelligent-Tiering to automatically move objects to S3 Glacier Deep Archive after 1 year
- C. Use the S3 Standard-Infrequent Access (S3 Standard-IA) storage class. Create an S3 Lifecycle policy to transition objects to S3 Glacier Deep Archive after 1 year
- D. Use the S3 Standard storage class. Create an S3 Lifecycle policy to transition objects to S3 Standard- Infrequent Access (S3 Standard-IA) after 30 days, and then to S3 Glacier Deep Archive after 1 year

正确答案 A

Q741. A company's HTTP application is behind a Network Load Balancer (NLB). The NLB's target group is configured to use an Amazon EC2 Auto Scaling group with multiple EC2 instances that run the web service. The company notices that the NLB is not detecting HTTP errors for the application. These errors require a manual restart of the EC2 instances that run the web service. The company needs to improve the application's availability without writing custom scripts or code. What should a solutions architect do to meet these requirements?

- A. Enable HTTP health checks on the NLB supplying the URL of the company's application
- B. Add a cron job to the EC2 instances to check the local application's logs once each minute. If HTTP errors are detected, the application will restart
- C. Replace the NLB with an Application Load Balancer. Enable HTTP health checks by supplying the URL of the company's application. Configure an Auto Scaling action to replace unhealthy instances

D. Create an Amazon CloudWatch alarm that monitors the UnhealthyHostCount metric for the NLB. Configure an Auto Scaling action to replace unhealthy instances when the alarm is in the ALARM state

正确答案 C

Q742. A company needs a storage solution for an application that runs on a high performance computing (HPC) cluster. The cluster is hosted on AWS Fargate for Amazon Elastic Container Service (Amazon ECS). The company needs a mountable file system that provides concurrent access to files while delivering hundreds of GBps of throughput at sub-millisecond latencies. Which solution meets these requirements?

A. Create an Amazon FSx for Lustre file share for the application data
Create an IAM role that allows Fargate to access the FSx for Lustre file share

B. Create an Amazon Elastic File System (Amazon EFS) file share for the application data. Create an IAM role that allows Fargate to access the EFS file share

C. Create an Amazon S3 bucket for the application data. Create an S3 bucket policy that allows Fargate to access the S3 bucket

D. Create an Amazon Elastic Block Store (Amazon EBS) Provisioned IOPS SSD (io2) volume for the application data
Create an IAM role that allows Fargate to access the volume.

正确答案 A

Q743. A company is launching a new application that will be hosted on Amazon EC2 instances. A solutions architect needs to design a solution that does not allow public IPv4 access that originates from the internet. However, the solution must allow the EC2 instances to make outbound IPv4 internet requests. The initial design proposal shows that the EC2

instances would be located in two private subnets across two Availability Zones. The entire architecture must be highly available. How should the solutions architect change the architecture to meet these requirements?

- A. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet
- B. Deploy an internet gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets
- C. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets
- D. Deploy an egress-only internet gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet

正确答案 A

Q744. A company runs a fleet of web servers using an Amazon RDS for PostgreSQL DB instance. After a routine compliance check, the company sets a standard that requires a recovery point objective (RPO) of less than 1 second for all its production databases. Which solution meets these requirements?

- A. Enable a Multi-AZ deployment for the DB instance.
- B. Enable auto scaling for the DB instance in one Availability Zone
- C. Configure the DB instance in one Availability Zone, and create multiple read replicas in a separate Availability Zone
- D. Configure the DB instance in one Availability Zone, and configure AWS Database Migration Service (AWS DMS) change data capture (CDC) tasks.

正确答案 A

Q745. A company runs a public three-tier web application in a VPC. The application runs on AmazonEc2 instances across multiple Availability Zones. The EC2 instances that run in private subnets need to communicate with a license server over the internet. The company needs a managed solution that minimizes operational maintenance. Which solution meets these requirements?

- A. Provision a NAT instance in a public subnet. Modify each private subnet's route table with a default route that points to the NAT instance
- B. Provision a NAT instance in a private subnet. Modify each private subnet's route table with a default route that points to the NAT instance
- C. Provision a NAT gateway in a public subnet. Modify each private subnet's route table with a default route that points to the NAT gateway.
- D. Provision a NAT gateway in a private subnet. Modify each private subnet's route table with a default route that points to the NAT gateway.

正确答案 C

Q746. A company is implementing a shared storage solution for a gaming application that is hosted in an on-premises data center. The company needs the ability to use Lustre clients to access data. The solution must be fully managed. Which solution meets these requirements?

- A. Create an AWS Storage Gateway file gateway. Create a file share that uses the required client protocol. Connect the application server to the file share.
- B. Create an Amazon EC2 Windows instance. Install and configure a Windows file share role on the instance. Connect the application server to the file share.

- C. Create an Amazon Elastic File System (Amazon EFS) file system, and configure it to support Lustre. Attach the file system to the origin server. Connect the application server to the file system
- D. Create an Amazon FSx for Lustre file system. Attach the file system to the origin server. Connect the application server to the file system.

正确答案 D

Q747. A company runs an online voting system for a weekly television program. During broadcasts, users submit hundreds of thousands of votes within minutes to a front-end fleet of Amazon EC2 instances that run in an Auto Scaling group. The EC2 instances write the vote to an Amazon RDS database. However, the database is unable to keep up with the requests that come from the EC2 instances.

- A. solutions architect must design a solution that processes the votes in the most efficient manner and without downtime. Which solution meets these requirements?
- B. Migrate the front-end application to AS Lambda. Use Amazon API Gateway to route user requests to the Lambda functions.
- C. Scale the database horizontally by converting it to a Multi-AZ deployment. Configure the front-end application to write to both the primary and secondary DB instances.
- D. Configure the front-end application to send votes to an Amazon Simple Queue Service (Amazon SQS) queue. Provision worker instances to read the SQS queue and write the vote information to the database.
- E. Use Amazon EventBridge (Amazon CloudWatch Events) to create a scheduled event to re-provision the database with larger, memory optimized instances during voting periods. When voting ends, re-provision the database to use smaller instances.

正确答案 C

Q748. A company is building its web application by using containers on AWS. The company requires three instances of the web application run at all times. The application must be highly available and must be able to scale to meet increases in demand. Which solution meets these requirements?

- A. Use the AWS Fargate launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster. Create a taskdefinition for the web application. Create an ECS service that has a desired count of three tasks
- B. Use the Amazon EC2launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster that has threecontainer instances in one Availability Zone Create a task definition for the web application. Place one task for eachcontainer instance.
- C. Use the AWS Fargate launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster that has threecontainer instances in three different Availability Zones Create a task definition for the web application. Create an ECSservice that has a desired count of three tasks
- D. Use the Amazon EC2launch type to create an Amazon Elastic Container Service (Amazon ECS) cluster that has onecontainer instance in two different Availability Zones. Create a task definition for the web application. Place two tasks on on container instance. Place one task on the remaining container instance

正确答案 C

Q749. A company provides machine learning solutions. The company's users need to download large datasets from the company's Amazon S3 bucket. These downloads often take a long time, especially when the users are running many simulations on a subset of those datasets. Users download

the datasets to Amazon EC2 instances in the same AWS Region as the S3 bucket. Multiple users typically use the same datasets at the same time. Which solution will reduce the time that is required to access the datasets?

- A. Configure the S3bucket to use the s3 Standard storage class with S3 Transfer Acceleration activated
- B. Configure the S3bucket to use the S3Intelligent-Tiering storage class with S3 Transfer Acceleration activated
- C. Create an Amazon Elastic File System (Amazon EFS) network file system. Migrate the datasets by using AWS DataSync
- D. Move the datasets onto a General Purpose SSD (gp3) Amazon Elastic Block Store Amazon EBS volume. Attach the volume to all the EC2 instances

正确答案 A

Q750. A solutions architect creates a VPC that includes two public subnets and two private subnets. A corporate security mandate requires the solutions architect to launch all Amazon EC2 instances in a private subnet. However, when the solutions architect launches an EC2 instance that runs a web server on ports 80 and 443 in a private subnet, no external internet traffic can connect to the server. What should the solutions architect do to resolve this issue?

- A. Attach the EC2instance to an Auto Scaling group in a private subnet. Ensure that the DNS record for the website resolves to the Auto Scaling group identifier.
- B. Provision an internet-facing Application Load Balancer (ALB) in a public subnet. Add the EC2instance to the target group that is associated with the ALB. Ensure that the DNS record for the website resolves to the ALB

- C. Launch a NAT gateway in a private subnet. Update the route table for the private subnets to add a default route to the NAT gateway. Attach a public Elastic IP address to the NAT gateway.
- D. Ensure that the security group that is attached to the EC2 instance allows HTTP traffic on port 80 and HTTPS traffic on port 443. Ensure that the DNS record for the website resolves to the public IP address of the EC2 instance.

正确答案 B

Q751. A company is running a media application in an on-premises data center and has accumulated 500 TB of data. The company needs to migrate the data from the application's existing network-attached file system to AWS. Users rarely access data that is older than 1 year. Which solution meets these requirements MOST cost-effectively?

- A. Use AWS Snowmobile to move the data to Amazon S3. Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Glacier.
- B. Use multiple AWS Snowball Edge Storage Optimized devices to move the data to Amazon S3. Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Standard-Infrequent Access (S3 Standard-IA).
- C. Set up an AWS Direct Connect connection between the on-premises data center and AWS. Transfer the data directly to Amazon S3 by using the Direct Connect connection. Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Glacier.
- D. Set up an AWS Site-to-Site VPN connection between the on-premises data center and AWS. Transfer the data directly to Amazon S3 by using the Site-to-Site VPN connection. Create an S3 Lifecycle policy to transition data that is older than 1 year to S3 Standard-Infrequent Access (S3 Standard-IA).

正确答案 B

Q752. A company needs to create an Amazon Elastic Kubernetes Service (Amazon EKS) cluster to host a digital media streaming application. The EKS cluster will use a managed node group that is backed by Amazon Elastic Block Store (Amazon EBS) volumes for storage. The company must encrypt all data at rest by using a customer master key (CMK that is stored in AWS Key Management Service (AWS KMS). Which combination of actions will meet this requirement with the LEAST amount of operational overhead? (Select TWO)

- A. Use a Kubernetes plugin to perform data encryption by using the CMK
- B. Create the EKS cluster. Associate an IAM role that has a policy that grants permission to the CMK
- C. After creation of the EKS cluster, locate the EBS volumes and turn on encryption by using the CMK
- D. Turn on EBS encryption by default in the AWS Region where the EKS cluster will be created. Select the CMK as the default key.
- E. Use envelope encryption with the CMK to create the EKS cluster. Store the CMK as a secret for access by using the AWS encryption provider.

正确答案 B, E

Q753. A meteorological startup company has a custom web application to sell weather data to its users online. The company uses Amazon DynamoDB to store its data and wants to build a new service that sends an alert to the managers of four internal teams every time a new weather event is recorded. The company does not want this new service to affect the performance of the current application. What should a solutions architect do to meet these requirements with the LEAST amount of operational overhead?

- A. Use DynamoDB transactions to write new event data to the table
Configure the transactions to notify internal teams
- B. Have the current application publish a message to four Amazon Simple Notification Service (Amazon SNS) topics Have each team subscribe to one topic
- C. Enable Amazon DynamoDB Streams on the table Use triggers to write to a single Amazon Simple Notification Service (Amazon SNS) topic to which the teams can subscribe.
- D. Add a custom attribute to each record to flag new items. Write a cron job that scans the table every minute for items that are new and notifies an Amazon Simple Queue Service (Amazon SQS) queue to which the teams can subscribe

正确答案 C

Q754. A solutions architect is designing a customer-facing application for a company. The application's database will have a clearly defined access pattern throughout the year and will have a variable number of reads and writes that depend on the time of year. The company must retain audit records for the database for 7 days. The recovery point objective (RPO) must be less than 5 hours. Which solution meets these requirements?

- A. Use Amazon DynamoDB with auto scaling Use on-demand backups and Amazon DynamoDB Streams
- B. Use Amazon Redshift Configure concurrency scaling. Activate audit logging. Perform database snapshots every 4 hours.
- C. Use Amazon RDS with Provisioned IOPS Activate the database auditing parameter. Perform database snapshots every 5 hours.
- D. Use Amazon Aurora MySQL with auto scaling. Activate the database auditing parameter.

正确答案 D

Q755. A company has designed an application where users provide small sets of textual data by calling a public API. The application runs on AWS and includes a public Amazon API Gateway API that forwards requests to an AWS Lambda function for processing. The Lambda function then writes the data to an Amazon Aurora Serverless database for consumption. The company is concerned that it could lose some user data if a Lambda function fails to process the request properly or reaches a concurrency limit. What should a solutions architect recommend to resolve this concern?

- A. Split the existing Lambda function into two Lambda functions. Configure one function to receive API Gateway requests and put relevant items into Amazon Simple Queue Service (Amazon SQS). Configure the other function to read items from Amazon SQS and save the data into Aurora.
- B. Configure the Lambda function to receive API Gateway requests and write relevant items to Amazon Elasticache. Configure ElastiCache to save the data into Aurora.
- C. Increase the memory for the Lambda function. Configure Aurora to use the Multi-AZ feature.
- D. Split the existing Lambda function into two Lambda functions. Configure one function to receive API Gateway requests and put relevant items into Amazon Simple Notification Service (Amazon SNS). Configure the other function to read items from Amazon SNS and save the data into Aurora.

正确答案 A

Q756. A company is running a high performance computing (HPC) workload on AWS across many Linux-based Amazon EC2 instances. The company needs a shared storage system that is capable of sub-millisecond latencies,

hundreds of Gbps of throughput, and millions of IOPS. Users will store millions of small files. Which solution meets these requirements?

- A. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the file system on each of the EC2 instances.
- B. Create an Amazon S3 bucket. Mount the s3 bucket on each of the EC2 instances.
- C. Ensure that the EC2 instances are Amazon Elastic Block Store (Amazon EBS) optimized. Mount Provisioned IOPSSSD(io2) EBS volumes with Multi-Attach on each instance.
- D. Create an Amazon FSx for Lustre file system. Mount the file system on each of the EC2 instances.

正确答案 A

Q757. A company has hired an external vendor to perform work in the company's AWS account. The vendor uses an automated tool that is hosted in an AWS account that the vendor owns. The vendor does not have IAM access to the company's AWS account. How should a solutions architect grant this access to the vendor?

- A. Create an IAM role in the company's account to delegate access to the vendor's IAM role. Attach the appropriate IAM policies to the role for the permissions that the vendor requires.
- B. Create an IAM user in the company's account with a password that meets the password complexity requirements. Attach the appropriate IAM policies to the user for the permissions that the vendor requires.
- C. Create an IAM group in the company's account. Add the tool's IAM user from the vendor account to the group. Attach the appropriate IAM policies to the group for the permissions that the vendor requires.
- D. Create a new identity provider by choosing "AWS account" as the provider type in the IAM console. Supply the vendor's AWS account ID and

user name. Attach the appropriate IAM policies to the new provider for the permissions that the vendor requires.

正确答案 D

Q758. A company is using a VPC that is provisioned with a 10.10.1.0/24 CIDR block. Because of continued growth, IP address space in this block might be depleted soon. A solutions architect must add more IP address capacity to the VPC. Which solution will meet these requirements with the LEAST operational overhead?

- A. Create a new VPC and associate it with a larger CIDR block.
- B. Add a secondary CIDR block of 10.10.2.0/24 to the VPC.
- C. Resize the existing VPC CIDR block from 10.10.1.0/24 to 10.10.1.0/16.
- D. Establish VPC peering with a new VPC that has a CIDR block of 10.10.1.0/16.

正确答案 B

Q759. A company hosts more than 300 global websites and applications. The company requires a platform to analyze more than 30 TB of clickstream data each day. What should a solutions architect do to transmit and process the clickstream data?

- A. Design an AWS Data Pipeline to archive the data to an Amazon S3 bucket and run an Amazon EMR cluster with the data to generate analytics.
- B. Create an Auto Scaling group of Amazon EC2 instances to process the data and send it to an Amazon S3 data lake for Amazon Redshift to use for analysis.
- C. Cache the data to Amazon CloudFront. Store the data in an Amazon S3 bucket. When an object is added to the S3 bucket, run an AWS Lambda function to process the data for analysis.

D. Collect the data from Amazon Kinesis Data Streams Use Amazon Kinesis Data Firehose to transmit the data to an Amazon S3 data lake. Load the data in Amazon Redshift for analysis

正确答案 D

Q760. A company has a production web application in which users upload documents through a web interface or a mobile app According to a new regulatory requirement, new documents cannot be modified or deleted after they are stored. What should a solutions architect do to meet this requirement?

A. Store the uploaded documents in an Amazon S3 bucket with S3 Versioning and S3 Object Lock enabled

B. Store the uploaded documents in an Amazon S3 bucket Configure an s3 Lifecycle policy to archive the documents periodically.

C. Store the uploaded documents in an Amazon S3 bucket with S3 Versioning enabled. Configure an ACL to restrict all access to read-only.

D. Store the uploaded documents on an Amazon Elastic File System Amazon EFS volume Access the data by mounting the volume in read-only mode.

正确答案 C

Q761. A news company that has reporters all over the world is hosting its broadcast system on AWS. The reporters send live broadcasts to the broadcast system. The reporters use software on their phones to send live streams through the Real Time Messaging Protocol (RTMP). A solutions architect must design a solution that gives the reporters the ability to send the highest quality streams. The solution must provide accelerated TCP connections back to the broadcast system. What should the solutions architect use to meet these requirements?

A. Amazon CloudFront

- B. AWS Global Accelerator
- C. AWS Client VPN
- D. Amazon EC2 instances and AWS Elastic IP addresses

正确答案 B

Q762. An application development team is designing a microservice that will convert large images to smaller, compressed images. When a user uploads an image through the web interface, the microservice should store the image in an Amazon S3 bucket, process and compress the image with an AWS Lambda function, and store the image in its compressed form in a different S3 bucket. A solutions architect needs to design a solution that uses durable, stateless components to process the images automatically. Which combination of actions will meet these requirements? (Select TWO)

- A. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure the S3 bucket to send a notification to the SQS queue when an image is uploaded to the S3 bucket.
- B. Configure the Lambda function to use the Amazon Simple Queue Service (Amazon SQS) queue as the invocation source. When the SQS message is successfully processed, delete the message in the queue.
- C. Configure the Lambda function to monitor the S3 bucket for new uploads. When an uploaded image is detected, write the file name to a text file in memory and use the text file to keep track of the images that were processed.
- D. Launch an Amazon EC2 instance to monitor an Amazon Simple Queue Service (Amazon SQS) queue. When items are added to the queue, log the file name in a text file on the EC2 instance and invoke the Lambda function.
- E. Configure an Amazon Event Bridge (Amazon CloudWatch Events) event to monitor the S3 bucket. When an image is uploaded, send an alert to an

Amazon Simple Notification Service (Amazon SNS) topic with the application owners email address for further processing.

正确答案 A, B

Q763. A company offers a food delivery service that is growing rapidly. Because of the growth, the company's order processing system is experiencing scaling problems during peak traffic hours. The current architecture includes the following:- A group of Amazon EC2instances that run in an Amazon EC2 Auto Scaling group to collect orders from the application- Another group of EC2instances that run in an Amazon EC2 Auto Scaling group to fulfill orders The order collection process occurs quickly, but the order fulfillment process can take longer Data must not be lost because of a scaling event.A solutions architect must ensure that the order collection process and the order fulfillment process can both scale properly during peak traffic hours. The solution must optimize utilization of the company's AWS resources.Which solution meets these requirements?

- A. Use Amazon CloudWatch metrics to monitor the CPU of each instance in the Auto Scaling groups. Configure each Auto Scaling group's minimum capacity according to peak workload values.
- B. Use Amazon CloudWatch metrics to monitor the CPU of each instance in the Auto Scaling groups. Configure aCloudWatch alarm to invoke an Amazon Simple Notification Service (Amazon SNS) topic that creates additional AutoScaling groups on demand.
- C. Provision two Amazon Simple Queue Service (Amazon SQS) queues: one for order collection and another for orderfulfillment Configure the EC2instances to poll their respective queue. Scale the Auto Scaling groups based on notifications that the queues send.
- D. Provision two Amazon Simple Queue Service (Amazon SQS)queues: one for order collection and another for orderfulfillment Configure the EC2instances to poll their respective queue. Create a metric based on a

backlog per instancecalculation. Scale the Auto Scaling groups based on this metric.

正确答案 C

Q764. A company uses AWS Organizations to manage multiple AWS accounts for different departments. The management account has an Amazon S3 bucket that contains project reports. The company wants to limit access to this S3 bucket to only users of accounts within the organization in AWS Organizations. Which solution meets these requirements with the LEAST amount of operational overhead?

- A. Add the aws:PrincipalOrgID global condition key with a reference to the organization ID to the s3 bucket policy
- B. Create an organizational unit (Ou) for each department Add the aws:PrincipalOrgPaths global condition key to the S3 bucket policy.
- C. Use AWS CloudTrail to monitor the Create Account, InviteAccountToOrganization, LeaveOrganization, andRemoveAccountFromOrganization events. Update the S3 bucket policy accordingly
- D. Tag each user that needs access to the S3 bucket. Add the awsPrincipalTag global condition key to the S3 bucket policy.

正确答案 B

Q765. A company has primary and secondary data centers that are 500 miles (8047km) apart and interconnected with high-speed fiber-optic cable. The company needs a highly available and secure network connection between its data centers and a VPC on AWS for a mission-critical workload. A solutions architect must choose a connection solution that provides maximum resiliency. Which solution meets these requirements?

- A. Two AWS Direct Connect connections from the primary data center terminating at two Direct Connect locations on two separate devices
- B. A single AWS Direct Connect connection from each of the primary and secondary data centers terminating at one Direct Connect location on the same device
- C. Two AWS Direct Connect connections from each of the primary and secondary data centers terminating at two Direct Connect locations on two separate devices
- D. A single AWS Direct Connect connection from each of the primary and secondary data centers terminating at one Direct Connect location on two separate devices

正确答案 C

Q766. A ride-sharing company stores historical service usage data as structured csv data files in Amazon S3. A data analyst needs to perform SQL queries on this data. A solutions architect must recommend a solution that optimizes cost-effectiveness for the queries. Which solution meets these requirements?

- A. Create an Amazon EMR cluster. Load the data. Perform the queries
- B. Create an Amazon Redshift cluster. Import the data. Perform the queries
- C. Create an Amazon Aurora PostgreSQL DB cluster. Import the data. Perform the queries
- D. Create an Amazon Athena database. Associate the data in Amazon S3. Perform the queries

正确答案 D

Q767. A company's web application consists of multiple Amazon EC2 instances that run behind an Application Load Balancer in a VPC. An Amazon RDS for MySQL DB instance contains the data. The company needs the ability to automatically detect and respond to suspicious or unexpected behavior in its AWS environment. The company already has added AWS WAF to its architecture. What should a solutions architect do next to protect against threats?

- A. Use Amazon GuardDuty to perform threat detection. Configure Amazon EventBridge (Amazon CloudWatch Events) to filter for GuardDuty findings and to invoke an AWS Lambda function to adjust the AWS WAF rules
- B. Use AWS Firewall Manager to perform threat detection. Configure Amazon EventBridge (Amazon CloudWatch Events) to filter for Firewall Manager findings and to invoke an AWS Lambda function to adjust the AWS WAF web ACL
- C. Use Amazon Inspector to perform threat detection and to update the AWS WAF rules. Create a VPC network ACL to limit access to the web application.
- D. Use Amazon Macie to perform threat detection and to update the AWS WAF rules. Create a vPc network ACL to limit access to the web application.

正确答案 A

Q768. A company recently migrated a legacy application from an on-premises data center to AWS. The application is running on an Amazon EC2 instance. The EC2 instance is deployed in a private subnet in a VPC without inbound internet access. The application support team requires SSH access to the operating system to perform periodic maintenance. Which solution provides secure access with the LEAST operational effort?

- A. Configure AWS Client VPN to access the VPC. Update the EC2 instance security group inbound rules to allow access from Client VPN

- B. Configure AWS Site-to-Site VPN to access the VPC Update the EC2 instance security group inbound rules to allow access from Site-to-Site VPN
- C. Attach the AmazonSSMManagedinstanceCore IAM policy to the EC2 instance role. Use AWS Systems Manager SessionManager to enable SSH connection
- D. Deploy a bastion host in a public subnet. Allow SSH access to the bastion host from the internet Update the EC2 instance security group inbound rules to allow access from the bastion host

正确答案 C

Q769. A company hosts an application on AWS Lambda functions that are invoked by an Amazon API Gateway API. The Lambda functions save customer data to an Amazon Aurora MySQL database. Whenever the company upgrades the database, the Lambda functions fail to establish database connections until the upgrade is complete. The result is that customer data is not recorded for some of the event. A solutions architect needs to design a solution that stores customer data that is created during database upgrades. Which solution will meet these requirements?

- A. Provision an Amazon RDS proxy to sit between the Lambda functions and the database. Configure the Lambda functions to connect to the RDS proxy.
- B. Increase the run time of the Lambda functions to the maximum. Create a try mechanism in the code that stores the customer data in the database.
- C. Persist the customer data to Lambda local storage. Configure new Lambda functions to scan the local storage to save the customer data to the database.
- D. Store the customer data in an Amazon Simple Queue Service (Amazon SQS) FIFO queue. Create a new Lambda function that polls the queue and stores the customer data in the database.

正确答案 D

Q770. A company has an Amazon S3 bucket that contains confidential information in its production AWS account. The company has turned on AWS CloudTrail for the account. The account sends a copy of its logs to Amazon CloudWatch Logs. The company has configured the S3 bucket to log read and write data events. A company auditor discovers that some objects in the S3 bucket have been deleted. A solutions architect must provide the auditor with information about who deleted the objects. What should the solutions architect do to provide this information?

- A. Create a CloudWatch Logs filter to extract the S3 write API calls against the S3 bucket
- B. Query the CloudTrail logs with Amazon Athena to identify the S3 write API calls against the s3 bucket
- C. Use AWS Trusted Advisor to perform security checks for S3 write API calls that deleted the content.
- D. Use AWS Config to track configuration changes on the S3 bucket. Use these details to track the S3 write API calls that deleted the content

正确答案 B

Q771. A company collects data for temperature, humidity, and atmospheric pressure in cities across multiple continents. The average volume of data that the company collects from each site daily is 500 GB. Each site has a high-speed internet connection. The company wants to aggregate the data from all these global sites as quickly as possible in a single Amazon S3 bucket. The solution must minimize operational complexity. Which solution meets these requirements?

- A. Turn on S3Transfer Acceleration on the destination S3 bucket. Use multipart uploads to directly upload site data to the destination S3 bucket.
- B. Upload the data from each site to an S3 bucket in the closest Region. Use S3 Cross-Region Replication to copy objects to the destination S3 bucket. Then remove the data from the origin S3 bucket.
- C. Schedule AWS Snowball Edge Storage Optimized device jobs daily to transfer data from each site to the closest Region. Use S3 Cross-Region Replication to copy objects to the destination S3 bucket.
- D. Upload the data from each site to an Amazon EC2 instance in the closest Region. Store the data in an Amazon Elastic Block Store (Amazon EBS) volume. At regular intervals, take an EBS snapshot and copy it to the Region that contains the destination S3 bucket. Restore the EBS volume in that Region.

正确答案 B

Q772. A company has a Windows-based application that must be migrated to AWS. The application requires the use of a shared Windows file system attached to multiple Amazon EC2 Windows instances that are deployed across multiple Availability Zones. What should a solutions architect do to meet this requirement?

- A. Configure AWS Storage Gateway in volume gateway mode. Mount the volume to each Windows instance.
- B. Configure Amazon FSx for Windows File Server. Mount the Amazon FSx file system to each Windows instance.
- C. Configure a file system by using Amazon Elastic File System (Amazon EFS). Mount the EFS file system to each Windows instance.
- D. Configure an Amazon Elastic Block Store (Amazon EBS) volume with the required size. Attach each EC2 instance to the volume. Mount the file system within the volume to each Windows instance.

正确答案 B

Q773. A solutions architect is creating a new Amazon CloudFront distribution for an application. Some of the information submitted by users is sensitive. The application uses HTTPS but needs another layer of security. The sensitive information should be protected throughout the entire application stack, and access to the information should be restricted to certain applications. Which action should the solutions architect take?

- A. Configure a CloudFront signed URL
- B. Configure a CloudFront signed cookie.
- C. Configure a CloudFront field-level encryption profile.
- D. Configure CloudFront and set the Origin Protocol Policy setting to HTTPS Only for the viewer Protocol Policy

正确答案 C

Q774. A solutions architect needs to design a highly available application consisting of web, application, and database tiers. HTTPS content delivery should be as close to the edge as possible, with the least delivery time. Which solution meets these requirements and is MOST secure?

- A. Configure a public Application Load Balancer (ALB) with multiple redundant Amazon EC2 instances in public subnets. Configure Amazon CloudFront to deliver HTTPS content using the public ALB as the origin
- B. Configure a public Application Load Balancer with multiple redundant Amazon EC2 instances in private subnets. Configure Amazon CloudFront to deliver HTTPS content using the EC2 instances as the origin

C. Configure a public Application Load Balancer (ALB) with multiple redundant Amazon EC2 instances in private subnets. Configure Amazon CloudFront to deliver HTTPS content using the public ALB as the origin.

D. Configure a public Application Load Balancer with multiple redundant Amazon EC2 instances in public subnets. Configure Amazon CloudFront to deliver HTTPS content using the EC2 instances as the origin.

正确答案 C

Q775. A company needs to retain its AWS CloudTrail logs for 3 years. The company is enforcing CloudTrail across a set of AWS accounts by using AWS Organizations from the parent account. The CloudTrail target S3 bucket is configured with S3 Versioning enabled. An S3 Lifecycle policy is in place to delete current objects after 3 years. After the fourth year of use of the S3 bucket, the S3 bucket metrics show that the number of objects has continued to rise. However, the number of new CloudTrail logs that are delivered to the S3 bucket has remained consistent. Which solution will delete objects that are older than 3 years in the MOST cost-effective manner?

A. Configure the organization's centralized CloudTrail trail to expire objects after 3 years

B. Configure the S3 Lifecycle policy to delete previous versions as well as current versions.

C. Create an AS Lambda function to enumerate and delete objects from Amazon S3 that are older than 3 years

D. Configure the parent account as the owner of all objects that are delivered to the S3 bucket

正确答案 B

Q776. A company is migrating its intrusion detection system to AWS. The company has deployed a fleet of virtual appliances to its VPC across two Availability Zones. The company wants to route all traffic to the set of virtual appliances before the traffic reaches its destination. What is the MOST operationally efficient solution that meets these requirements?

- A. Create a Gateway Load Balancer Configure the Gateway Load Balancer to route traffic to the VPC where the virtual appliances are hosted
- B. Create an Amazon Route 53 private hosted zone. Create A records to route traffic to the virtual appliances
- C. Modify each existing route table to include the CIDR block of the VPC where the virtual appliances are hosted.
- D. Create an AWS Lambda function that will collect the list of traffic and route the traffic to the VPC where the virtual appliances are hosted

正确答案 A

Q777. A company has thousands of edge devices that collectively generate 1 TB of status alerts each day. Each alert is approximately 2 KB in size. A solutions architect needs to implement a solution to ingest and store the alerts for future analysis. The company wants a highly available solution. However, the company needs to minimize costs and does not want to manage additional infrastructure. Additionally, the company wants to keep 14 days of data available for immediate analysis and archive any data older than 14 days. What is the MOST operationally efficient solution that meets these requirements?

- A. Create an Amazon Kinesis Data Firehose delivery stream to ingest the alerts. Configure the Kinesis Data Firehose stream to deliver the alerts to an Amazon S3 bucket. Set up an s3 Lifecycle configuration to transition data to Amazon S3 Glacier after 14 days
- B. Launch Amazon EC2 instances across two Availability Zones and place them behind an Elastic Load Balancer to ingest the alerts. Create a

script on the EC2instances that will store the alerts in an Amazon S3 bucket. Set up an S3 Lifecycle configuration to transition data to Amazon S3 Glacier after 14 days

C. Create an Amazon Kinesis Data Firehose delivery stream to ingest the alerts. Configure the Kinesis Data Firehose stream to deliver the alerts to an Amazon Elasticsearch Service (Amazon ES) cluster. Set up the Amazon ES cluster to take manual snapshots every day and delete data from the cluster that is older than 14 days.

D. Create an Amazon Simple Queue Service (Amazon SQS) standard queue to ingest the alerts, and set the message retention period to 14 days. Configure consumers to poll the SQS queue, check the age of the message, and analyze the message data as needed. If the message is 14 days old, the consumer should copy the message to an Amazon S3 bucket and delete the message from the SQS queue

正确答案 A

Q778. A company is designing a new web application that the company will deploy into a single AWS Region. The application requires a two tier architecture that will include Amazon EC2instances and an Amazon RDS DB instance. A solutions architect needs to design the application so that all components are highly available. Which solution will meet these requirements MOST cost-effectively?

A. Deploy EC2 instances in an additional Region. Create a DB instance with the Multi-AZ option activated.

B. Deploy all EC2 instances in the same Region and the same Availability Zone. Create a DB instance with the Multi-AZ option activated.

C. Deploy the EC2 instances across at least two Availability Zones within the same Region. Create a DB instance in a single Availability Zone.

D. Deploy the EC2 instances across at least two Availability Zones within the same Region. Create a DB instance with the Multi-AZ option activated.

正确答案 D

Q779. A company is running an online transaction processing (OITP) workload on AWS. This workload uses an unencrypted Amazon RDS DB instance in a Multi-AZ deployment. Daily database snapshots are taken from this instance. What should a solutions architect do to ensure the database and snapshots are always encrypted moving forward?

- A. Encrypt a copy of the latest DB snapshot. Replace existing DB instance by restoring the encrypted snapshot
- B. Create a new encrypted Amazon Elastic Block Store (Amazon EBS) volume and copy the snapshots to it. Enable encryption on the DB instance
- C. Copy the snapshots and enable encryption using AWS Key Management Service (AWS KMS). Restore encrypted snapshot to an existing DB instance
- D. Copy the snapshots to an Amazon S3 bucket that is encrypted using server-side encryption with AWS Key Management Service (AWS KMS) managed keys (SSE-KMS)

正确答案 A

Q780. A company has an ecommerce application that runs in a single VPC. The application stack includes a single Amazon EC2 instance and an Amazon RDS Multi-AZ DB instance. The company launches new products twice a month. These launches increase website traffic by approximately 400% for a minimum of 72 hours. During this period, users experience slow response times and frequent timeout errors. A solutions architect needs to design a solution to resolve these timeout errors. Which solution meets these requirements MOST cost-effectively?

- A. Increase the instance size of the EC2 instance.
- B. Create an additional EC2 instance and an Application Load Balancer to distribute traffic
- C. Create an Auto Scaling group from the existing EC2 instance. Use an Application Load Balancer to distribute traffic.
- D. Configure the application to use an Amazon ElastiCache cluster to store and retrieve frequently accessed data

正确答案 C

Q781. A company has an application that processes customer orders. The company hosts the application on an Amazon EC2 instance that saves the orders to an Amazon Aurora database. Occasionally when traffic is high, the workload does not process orders fast enough. What should a solutions architect do to write the orders reliably to the database as quickly as possible?

- A. Increase the instance size of the EC2 instance when traffic is high. Write orders to Amazon Simple Notification Service (Amazon SNS). Subscribe the database endpoint to the SNS topic.
- B. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue. Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database.
- C. Write orders to Amazon Simple Notification Service (Amazon SNS). Subscribe the database endpoint to the SNS topic. Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SNS topic.
- D. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue when the EC2 instance reaches CPU threshold limits. Use scheduled scaling of EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database.

正确答案 B

Q782. A company is running a system that consists of several applications. Each application runs on a separate virtual machine (QVM) in the company's on-premises data center. All the application data is stored externally, and some batch processes can take several hours to complete. A solutions architect needs to migrate these applications to the AWS Cloud while preserving logical separation between the running processes. Which solution meets these requirements with the LEAST operational overhead?

- A. Migrate the applications to AWS Lambda with Amazon API Gateway
- B. Migrate the applications to Amazon EC2 instances in two Availability Zones.
- C. Migrate the applications to Amazon EC2 instances. install the Amazon CloudWatch agent
- D. Migrate the applications to containers. Run the applications on an Amazon Elastic Kubernetes Service (Amazon EKS) cluster with AWS Fargate

正确答案 B

Q783. A company is running a critical business application on Amazon EC2 instances behind an Application Load Balancer. The EC2 instances run in an Auto Scaling group and access an Amazon RDS DB instance. The design did not pass an operational review because the EC2 instances and the DB instance are all located in a single Availability Zone. A solutions architect must update the design to use a second Availability Zone. Which solution will make the application highly available?

- A. Provision a subnet in each Availability Zone. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance with connections to each network

- B. Provision two subnets that extend across both Availability Zones. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance with connections to each network.
- C. Provision a subnet in each Availability Zone. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance for Multi-AZ deployment.
- D. Provision a subnet that extends across both Availability Zones. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance for Multi-AZ deployment

正确答案 C

Q784. A company hosts a popular website in the AWS Cloud. A solutions architect needs to provide reports about user click behavior in near-real time as users navigate the website. Which solution will meet this requirement?

- A. Store the clickstream data in Amazon DynamoDB Deploy an application that runs on AWS Elastic Beanstalk to process and analyze the data
- B. Push the clickstream data from each session to an Amazon Kinesis data stream. Analyze the data by using Amazon Kinesis Data Analytics
- C. Store the clickstream data in an Amazon S3 bucket Order the data by timestamp. Process the data with an AWS Lambda function that is subscribed to object creation events on the S3 bucket.
- D. Forward the clickstream data to Amazon Simple Queue Service (Amazon SQS) Store the data in an Amazon RDS for MySQL DB instance. Deploy Amazon EC2 instances to process and analyze the data

正确答案 B

Q785. A company needs to ingest and handle large amounts of streaming data that its application generates. The application runs on Amazon EC2 instances and sends data to Amazon Kinesis Data Streams, which is configured with default settings. Every other day, the application consumes the data and writes the data to an Amazon S3 bucket for business intelligence (BI) processing. The company observes that Amazon S3 is not receiving all the data that the application sends to Kinesis Data Streams. What should a solutions architect do to resolve this issue?

- A. Update the Kinesis Data Streams default settings by modifying the data retention period
- B. Update the application to use the Kinesis Producer Library (KPL) to send the data to Kinesis Data Streams
- C. Update the number of Kinesis shards to handle the throughput of the data that is sent to Kinesis Data Streams
- D. Turn on S3 Versioning within the S3 bucket to preserve every version of every object that is ingested in the S3 bucket.

正确答案 B

Q786. A law firm needs to share information with the public. The information includes hundreds of files that must be publicly readable. Modifications or deletions of the files by anyone before a designated future date are prohibited. Which solution will meet these requirements in the MOST secure way?

- A. Upload all files to an Amazon S3 bucket that is configured for static website hosting Grant read-only IAM permissions to any AWS principals that access the S3 bucket until the designated date
- B. Create a new Amazon S3 bucket with S3 Versioning enabled. Use S3 Object Lock with a retention period in accordance with the designated

date. Configure the S3 bucket for static website hosting. Set an S3 bucket policy to allow read-only access to the objects.

C. Create a new Amazon S3 bucket with S3 Versioning enabled. Configure an event trigger to run an AWS Lambda function in case of object modification or deletion. Configure the Lambda function to replace the objects with the original versions from a private S3 bucket

D. Upload all files to an Amazon S3 bucket that is configured for static website hosting. Select the folder that contains the files

E. Use S3 Object Lock with a retention period in accordance with the designated date. Grant read-only IAM permissions to any AWS principals that access the S3 bucket

正确答案 C

Q787. A company built an application with Docker containers and needs to run the application in the AWS Cloud. The company wants to use a managed service to host the application. The solution must scale in and out appropriately according to demand on the individual container services. The solution also must not result in additional operational overhead or infrastructure to manage. Which solutions will meet these requirements? (Select TWO)

A. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate

B. Use Amazon Elastic Kubernetes Service (Amazon EKS) with AWS Fargate

C. Provision an Amazon API Gateway API. Connect the API to AWS Lambda to run the containers

D. Use Amazon Elastic Container Service (Amazon ECS) with Amazon EC2 worker nodes

E. Use Amazon Elastic Kubernetes Service (Amazon EKS) with Amazon EC2 worker nodes.

正确答案 A, C

Q788. A company runs multiple applications in containers on Amazon Elastic Container Service (Amazon ECS instances). The applications run in an ECS cluster. Users access the applications through an Application Load Balancer (ALB). The users report that the applications are slow every morning from 9:00 until 9:30. After that time period, no issues occur. What should a solutions architect recommend to resolve this issue?

- A. Configure an Auto Scaling group with a step scaling policy. Attach the ECS instances to the Auto Scaling group
- B. Configure an Auto Scaling group with a scheduled scaling policy. Attach the ECS instances to the Auto Scaling group
- C. Create a second ECS cluster with two ECS instances. Deploy some of the applications to the second ECS cluster
- D. Add a second ALB in front of ECS instances. Configure the second ALB to route traffic to some of the applications on the ECS instances.

正确答案 B

Q789. A company is designing an application to run in a VPC on AWS. The application consists of Amazon EC2 instances that run in private subnets as part of an Auto Scaling group. The application also includes a Network Load Balancer that extends across public subnets. The application stores data in an Amazon RDS DB instance. The company has attached a security group that is named "web-servers" to the EC2 instances. The company has attached a security group that is named "database" to the DB instance. How should a solutions architect configure the communication between the EC2 instances and the DB instance?

- A. Configure the "web-servers" security group to allow access to the DB instance's current IP addresses. Configure the "database" security group to allow access from the current set of IP addresses in use by the EC2 instances.
- B. Configure the "web-servers" security group to allow access to the "database" security group. Configure the "database" security group to allow access from the "web-servers" security group.
- C. Configure the "web-servers" security group to allow access to the DB instance's current IP addresses. Configure the "database" security group to allow access from the Auto Scaling group.
- D. Configure the "web-servers" security group to allow access to the "database" security group. Configure the "database" security group to allow access from the Auto Scaling group.

正确答案 B

Q790. A company is deploying a new application to Amazon Elastic Kubernetes Service (Amazon EKS) with an AWS Fargate cluster. The application needs a storage solution for data persistence. The solution must be highly available and fault tolerant. The solution also must be shared between multiple application containers. Which solution will meet these requirements with the LEAST operational overhead?

- A. Create Amazon Elastic Block Store (Amazon EBS) volumes in the same Availability Zones where EKS worker nodes are placed. Register the volumes in a StorageClass object on an EKS cluster. Use EBS Multi-Attach to share the data between containers.
- B. Create an Amazon Elastic File System (Amazon EFS) file system. Register the file system in a StorageClass object on an EKS cluster. Use the same file system for all containers.

C. Create an Amazon Elastic Block Store (Amazon EBS) volume. Register the volume in a StorageClass object on an EKS cluster. Use the same volume for all containers.

D. Create Amazon Elastic File System (Amazon EFS) file systems in the same Availability Zones where EKS worker nodes are placed. Register the file systems in a StorageClass object on an EKS cluster. Create an AWS Lambda function to synchronize the data between file systems.

正确答案 B

Q791. A company has hired a solutions architect to design a reliable architecture for its application. The application consists of one Amazon RDS DB instance and two manually provisioned Amazon EC2 instances that run web servers. The EC2 instances are located in a single Availability Zone. An employee recently deleted the DB instance, and the application was unavailable for 24 hours as a result. The company is concerned with the overall reliability of its environment. What should the solutions architect do to maximize reliability of the application's infrastructure?

A. Delete one EC2 instance and enable termination protection on the other EC2 instance. Update the DB instance to be Multi-AZ, and enable deletion protection.

B. Update the DB instance to be Multi-AZ, and enable deletion protection. Place the EC2 instances behind an Application Load Balancer, and run them in an EC2 Auto Scaling group across multiple Availability Zones.

C. Create an additional DB instance along with an Amazon API Gateway and an AWS Lambda function. Configure the application to invoke the Lambda function through API Gateway. Have the Lambda function write the data to the two DB instances.

D. Place the EC2 instances in an EC2 Auto Scaling group that has multiple subnets located in multiple Availability Zones. Use Spot instances instead of On-Demand instances. Set up Amazon CloudWatch alarms to

monitor the health of the instances. Update the DB instance to be Multi-AZ, and enable deletion protection.

正确答案 B

Q792. A solutions architect needs to design a solution that retrieves data every 2 minutes from a third-party web service that is accessible through the internet. A Python script runs the data retrieval in less than 100 milliseconds for each retrieval. The response is a JSON object that contains sensor data that is less than 1 KB in size. The solutions architect needs to store the JSON object along with the timestamp. Which solution meets these requirements MOST cost-effectively?

- A. Deploy an Amazon EC2 instance with a Linux operating system. Configure a cron job to run the script every 2 minutes. Extend the script to store the JSON object along with the timestamp in a MySQL database that is hosted on an Amazon RDS DB instance.
- B. Deploy an Amazon EC2 instance with a Linux operating system to extend the script to run in an infinite loop every 2 minutes. Store the JSON object along with the timestamp in an Amazon DynamoDB table that uses the timestamp as the primary key. Run the script on the EC2 instance.
- C. Deploy an AWS Lambda function to extend the script to store the JSON object along with the timestamp in an Amazon DynamoDB table that uses the timestamp as the primary key. Use an Amazon EventBridge (Amazon CloudWatch Events) scheduled event that is initiated every 2 minutes to invoke the Lambda function.
- D. Deploy an AWS Lambda function to extend the script to run in an infinite loop every 2 minutes. Store the JSON object along with the timestamp in an Amazon DynamoDB table that uses the timestamp as the primary key. Ensure that the script is called by the handler function that is configured for the Lambda function.

正确答案 C

第 793 题(单选题)

Q793. A company runs an online voting system for a weekly television program. During broadcasts, users submit hundreds of thousands of votes within minutes to a front-end fleet of Amazon EC2 instances that run in an Auto Scaling group. The EC2 instances write the votes to an Amazon RDS database. However, the database is unable to keep up with the requests that come from the EC2 instances. A solutions architect must design a solution that processes the votes in the most efficient manner and without downtime. Which solution meets these requirements?

- A. Migrate the front-end application to AWS Lambda. Use Amazon API Gateway to route user requests to the Lambda functions.
- B. Scale the database horizontally by converting it to a Multi-AZ deployment. Configure the front-end application to write to both the primary and secondary DB instances
- C. Configure the front-end application to send votes to an Amazon Simple Queue Service (Amazon SQS) queue. Provision worker instances to read the SQS queue and write the vote information to the database
- D. Use Amazon EventBridge (Amazon CloudWatch Events) to create a scheduled event to re-provision the database with larger, memory optimized instances during voting periods. When voting ends, re-provision the database to use smaller instances.

正确答案 C

第 794 题(单选题)

Q794. A company uses a combination of Amazon EC2 instances and AWS Fargate tasks to process daily transactions. The company faces unpredictable and sudden increases in transaction volume. The company needs a solution that will process the transactions immediately. Which solution meets these requirements MOST cost-effectively?

- A. Purchase a Compute Savings Plan
- B. Purchase an EC2 Instance Savings Plan

- C. Purchase Reserved Instances for existing EC2 workloads
- D. Use Spot Instances for existing EC2 workloads Use Fargate Spot capacity for the tasks

正确答案 D

第 795 题(单选题)

Q795. A company has a web application that includes an embedded NoSQL database. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an Amazon EC2 Auto Scaling group in a single Availability Zone. A recent increase in traffic requires the application to be highly available and for the database to be eventually consistent. Which solution will meet these requirements with the LEAST operational overhead?

- A. Replace the ALB with a Network Load Balancer. Maintain the embedded NoSQL database with its replication service on the EC2 instances.
- B. Replace the ALB with a Network Load Balancer. Migrate the embedded NoSQL database to Amazon DynamoDB by using AWS Database Migration Service (AWS DMS)
- C. Modify the Auto Scaling group to use EC2 instances across three Availability Zones. Maintain the embedded NoSQL database with its replication service on the EC2 instances
- D. Modify the Auto Scaling group to use EC2 instances across three Availability Zones. Migrate the embedded NoSQL database to Amazon DynamoDB by using AWS Database Migration Service (AWS DMS)

正确答案 D

第 796 题(单选题)

Q796. A company is hosting a web application from an Amazon S3 bucket. The application uses Amazon Cognito as an identity provider to authenticate users and return a JSON Web Token (JWT) that provides access to protected resources that are stored in another S3 bucket. Upon deployment of the application, users report errors and are unable to access the protected content. A solutions architect

must resolve this issue by providing proper permissions so that users can access the protected content. Which solution meets these requirements?

- A. Update the Amazon Cognito identity pool to assume the proper IAM role for access to the protected content.
- B. Update the S3ACL to allow the application to access the protected content
- C. Redeploy the application to Amazon S3 to prevent eventually consistent reads in the S3 bucket from affecting the ability of users to access the protected content
- D. Update the Amazon Cognito pool to use custom attribute mappings within the identity pool and grant users the proper permissions to access the protected content

正确答案 D

第 797 题(单选题)

Q797. A company has a new mobile app Anywhere in the world, users can see local news on topics they choose. Users also can post photos and videos from inside the app. Users access content often in the first minutes after the content is posted. New content quickly replaces older content, and then the older content disappears. The local nature of the news means that users consume 90% of the content within the AWS Region where it is uploaded. Which solution will optimize the user experience by providing the LOWEST latency for content uploads?

- A. Upload and store content in Amazon S3 Use Amazon CloudFront for the uploads.
- B. Upload and store content in Amazon S3 Use S3 Transfer Acceleration for the uploads.
- C. Upload content to Amazon EC2 instances in the Region that is closest to the user. Copy the data to Amazon S3
- D. Upload and store content in Amazon S3 in the Region that is closest to the user. Use multiple distributions of Amazon CloudFront.

正确答案 A

第 798 题(单选题)

Q798. A company runs a containerized application on a Kubernetes cluster in an on-premises data center. The company is using a MongoDB database for data storage. The company wants to migrate some of these environments to AWS, but no code changes or deployment method changes are possible at this time. The company needs a solution that minimizes operational overhead. Which solution meets these requirements?

- A. Use Amazon Elastic Container Service (Amazon ECS) with Amazon EC2 worker nodes for compute and MongoDB on EC2 for data storage.
- B. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate for compute and Amazon DynamoDB for data storage.
- C. Use Amazon Elastic Kubemnetes Service (Amazon EKS) with Amazon EC2 worker nodes for compute and Amazon DynamoDB for data storage
- D. Use Amazon Elastic Kubemnetes Service (Amazon EKS) with AWS Fargate for compute and Amazon DocumentDB (with MongoDB compatibility) for data storage

正确答案 D

第 799 题(单选题)

Q799. A company has an AWS Lambda function that needs read access to an Amazon S3 bucket that is located in the same AWS account. Which solution will meet these requirements in the MOST secure manner?

- A. Apply an S3 bucket policy that grants read access to the S3 bucket.
- B. Apply an IAM role to the Lambda function. Apply an IAM policy to the role to grant read access to the S3 bucket

C. Embed an access key and a secret key in the Lambda function's code to grant the required IAM permissions for read access to the S3 bucket.

D. Apply an IAM role to the Lambda function. Apply an IAM policy to the role to grant read access to all S3 buckets in the account.

正确答案 D

第 800 题(单选题)

Q800. A survey company has gathered data for several years from areas in the United States. The company hosts the data in an Amazon S3 bucket that is 3 TB in size and growing. The company has started to share the data with a European marketing firm that has S3 buckets. The company wants to ensure that its data transfer costs remain as low as possible. Which solution will meet these requirements?

- A. Configure the Requester Pays feature on the company's S3 bucket.
- B. Configure S3 Cross-Region Replication from the company's S3 bucket to one of the marketing firm's S3 buckets.
- C. Configure cross-account access for the marketing firm so that the marketing firm has access to the company's S3 bucket.
- D. Configure the company's S3 bucket to use S3 Intelligent-Tiering. Sync the S3 bucket to one of the marketing firm's S3 buckets.

正确答案 A

第 801 题(单选题)

Q801. A company has an AWS Direct Connect connection from its on-premises location to an AWS account. The AWS account has 30 different VPCs in the same AWS Region. The VPCs use private virtual interfaces (VIFs). Each VPC has a CIDR block that does not overlap with other networks under the company's control. The company wants to centrally manage the networking architecture while still allowing each VPC to communicate with all other VPCs and on-premises networks. Which solution will meet these requirements with the LEAST amount of operational overhead?

- A. Create a transit gateway, and associate the Direct Connect connection with a new transit VIF. Turn on the transit gateway's route propagation feature.
- B. Create a Direct Connect gateway. Recreate the private VIFs to use the new gateway. Associate each VPC by creating new virtual private gateways.
- C. Create a transit VPC. Connect the Direct Connect connection to the transit VPC. Create a peering connection between all other VPCs in the Region. Update the route tables.
- D. Create AWS Site-to-Site VPN connections from on premises to each VPC. Ensure that both VPN tunnels are UP for each connection. Turn on the route propagation feature.

正确答案 A

第 802 题(单选题)

Q802. A financial company hosts a web application on AWS. The application uses an Amazon API Gateway Regional API endpoint to give users the ability to retrieve current stock prices. The company's security team has noticed an increase in the number of API requests. The security team is concerned that HTTP flood attacks might take the application offline. A solutions architect must design a solution to protect the application from this type of attack. Which solution meets these requirements with the LEAST operational overhead?

- A. Create an Amazon CloudFront distribution in front of the API Gateway Regional API endpoint with a maximum TTL of 24 hours.
- B. Create a Regional AWS WAF web ACL with a rate-based rule. Associate the web ACL with the API Gateway stage.
- C. Use Amazon CloudWatch metrics to monitor the Count metric and alert the security team when the predefined rate is reached.
- D. Create an Amazon CloudFront distribution with Lambda@Edge in front of the API Gateway Regional API endpoint. Create an AWS Lambda function to block requests from IP addresses that exceed the predefined rate.

正确答案 B

第 803 题(单选题)

Q803. A company has an API that receives real-time data from a fleet of monitoring devices. The API stores this data in an Amazon RDS DB instance for later analysis. The amount of data that the monitoring devices send to the API fluctuates. During periods of heavy traffic, the API often returns timeout errors. After an inspection of the logs, the company determines that the database is not capable of processing the volume of write traffic that comes from the API. A solutions architect must minimize the number of connections to the database and must ensure that data is not lost during periods of heavy traffic. Which solution will meet these requirements?

- A. Increase the size of the DB instance to an instance type that has more available memory.
- B. Modify the DB instance to be a Multi-AZ DB instance. Configure the application to write to all active RDS DB instances.
- C. Modify the API to write incoming data to an Amazon Simple Queue Service (Amazon SQS) queue. Use an AWS Lambda function that Amazon SQS invokes to write data from the queue to the database.
- D. Modify the API to write incoming data to an Amazon Simple Notification Service (Amazon SNS) topic. Use an AWS Lambda function that Amazon SNS invokes to write data from the topic to the database.

正确答案 C

第 804 题(多选题)

Q804. An ecommerce company uses an Amazon Aurora DB cluster to store customer transactions. The company also maintains a separate Amazon DynamoDB table that contains item sales information. The company wants the DB cluster to invoke a recently deployed AWS Lambda function to update the DynamoDB table every time a row is inserted into the database. Which combination of steps should a solutions architect take to meet these requirements? (Select TWO.)

- A. Modify the Lambda function to allow outbound communication to the DB cluster
- B. Modify the DB cluster to allow outbound communication to the Lambda function
- C. Modify the DB cluster to allow outbound communication to the DynamoDB table
- D. Ensure that the DB cluster has an IAM role that allows the DB cluster to invoke Lambda functions
- E. Ensure that the Lambda function has an IAM role that allows Lambda to invoke functions on the DB cluster.

正确答案 C, D

第 805 题(单选题)

Q805. A company is deploying an application that processes streaming data in near-real time. The company plans to use Amazon EC2 instances for the workload. The network architecture must be configurable to provide the lowest possible latency between nodes. Which networking solution meets these requirements?

- A. Place the EC2 instances in multiple VPCs, and configure VPC peering.
- B. Attach an Elastic Fabric Adapter (EFA) to each EC2 instance.
- C. Run the EC2 instances in a spread placement group.
- D. Use Amazon Elastic Block Store (Amazon EBS) optimized instance types.

正确答案 C

第 806 题(多选题)

Q806. A disaster relief company is designing a new solution to analyze real-time .csv data. The data is collected by a network of thousands of research stations that are distributed across the world. The data volume is consistent and constant, and the size of each data file is 512KB. The company needs to stream the data and analyze the

data in real time. Which combination of actions should a solutions architect take to meet these requirements? (Select TWO.)

- A. Provision an appropriately sized Amazon Simple Queue Service (Amazon SQS) queue. Use the AWS SDK at the research stations to write the data into the SQS queue.
- B. Provision an appropriately sized Amazon Kinesis Data Firehose delivery stream. Use the AWS SDK at the research stations to write the data into the delivery stream and then into an Amazon S3 bucket.
- C. Provision an appropriately sized Amazon Kinesis Data Analytics application. Use the AWS CL to configure Kinesis Data Analytics with SQL queries.
- D. Provision an AWS Lambda function to process the data. Set up the BatchSize property on the Lambda event source.
- E. Provision an AWS Lambda function to process the data. Set up an Amazon EventBridge (Amazon CloudWatch Events) cron expression rule to invoke the Lambda function.

正确答案 B, C

第 807 题(单选题)

Q807. A company runs its infrastructure on AWS and has a registered base of 700000 users for its document management application. The company intends to create a product that converts large .pdf files to .jpg image files. The .pdf files average 5 MB in size. The company needs to store the original files and the converted files. A solutions architect must design a scalable solution to accommodate demand that will grow rapidly over time. Which solution meets these requirements MOST cost-effectively?

- A. Save the .pdf files to Amazon S3. Configure an S3 PUT event to invoke an AWS Lambda function to convert the files to .jpg format and store them back in Amazon S3.
- B. Save the .pdf files to Amazon DynamoDB. Use the DynamoDB Streams feature to invoke an AWS Lambda function to convert the files to jpg format and store them back in DynamoDB.

C. Upload the .pdf files to an AWS Elastic Beanstalk application that includes Amazon EC2 instances, Amazon Elastic Block Store (Amazon EBS) storage, and an Auto Scaling group. Use a program in the EC2 instances to convert the files to .jpg format. Save the .pdf files and the .jpg files in the EBS store.

D. Upload the .pdf files to an AWS Elastic Beanstalk application that includes Amazon EC2 instances, Amazon Elastic File System (Amazon EFS) storage, and an Auto Scaling group. Use a program in the EC2 instances to convert the file to jpg format. Save the pdf files and the jpg files in the EBS store

正确答案 A

第 808 题(单选题)

Q808. A company runs a stateless web application in production on a group of Amazon EC2 On-Demand Instances behind an Application Load Balancer. The application experiences heavy usage during an 8-hour period each business day. Application usage is moderate and steady overnight. Application usage is low during weekends. The company wants to minimize its EC2 costs without affecting the availability of the application. Which solution will meet these requirements?

- A. Use Spot Instances for the entire workload.
- B. Use Reserved Instances for the baseline level of usage. Use Spot Instances for any additional capacity that the application needs.
- C. Use On-Demand Instances for the baseline level of usage. Use Spot Instances for any additional capacity that the application needs.
- D. Use Dedicated Instances for the baseline level of usage. Use On-Demand Instances for any additional capacity that the application needs.

正确答案 B

第 809 题(单选题)

Q809. A company is experiencing sudden increases in demand. The company needs to provision large Amazon EC2 instances from an Amazon

Machine Image (AMI). The instances will run in an Auto Scaling group. The company needs a solution that provides minimum initialization latency to meet the demand. Which solution meets these requirements?

- A. Use the aws ec2 register-image command to create an AMI from a snapshot. Use AWS Step Functions to replace the AMI in the Auto Scaling group.
- B. Enable Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot. Provision an AMI by using the snapshot. Replace the AMI in the Auto Scaling group with the new AMI.
- C. Enable AMI creation and define lifecycle rules in Amazon Data Lifecycle Manager (Amazon DLM). Create an AWS Lambda function that modifies the AMI in the Auto Scaling group.
- D. Use Amazon EventBridge (Amazon CloudWatch Events) to invoke AWS Backup lifecycle policies that provision AMIs. Configure Auto Scaling group capacity limits as an event source in EventBridge (CloudWatch Events).

正确答案 A

第 810 题(单选题)

Q810. A company is storing 700 terabytes of data on a large network-attached storage (NAS) system in its corporate data center. The company has a hybrid environment with a 10 Gbps AWS Direct Connect connection. After an audit from a regulator, the company has 90 days to move the data to the cloud. The company needs to move the data efficiently and without disruption. The company still needs to be able to access and update the data during the transfer window. Which solution will meet these requirements?

- A. Create an AWS DataSync agent in the corporate data center. Create a data transfer task. Start the transfer to an Amazon S3 bucket
- B. Back up the data to AWS Snowball Edge Storage Optimized devices. Ship the devices to an AWS data center. Mount a target Amazon S3 bucket on the on-premises file system

- C. User sync to copy the data directly from local storage to a designated Amazon S3 bucket over the Direct Connect connection.
- D. Back up the data on tapes. Ship the tapes to an AWS data center. Mount a target Amazon S3 bucket on the on-premises file system

正确答案 A

第 811 题(单选题)

Q811. A company is hosting its website on Amazon S3 and is using Amazon CloudFront to cache content. The company has an upcoming product launch. An employee accidentally published marketing content to the website before the official release of the product. The company needs to remove the marketing content from the website as quickly as possible. Which solution will meet these requirements?

- A. Deploy the updated version of the website to another S3 bucket. Update the origin for CloudFront
- B. Delete the marketing content in the existing S3 bucket. Invalidate the file path in CloudFront
- C. Create a new CloudFront cache policy with a low TTL. Associate the new policy with the existing CloudFront distribution
- D. Delete the marketing content in the existing S3 bucket. Update the S3 bucket policy to block requests to the file path.

正确答案 D

第 812 题(单选题)

Q812. A company that has a global user base is launching a new service. The service is highly anticipated because of a long marketing campaign. The company has built the service on Amazon EC2 instances that run behind an Application Load Balancer (ALB). The company uses an Amazon RDS for MySQL DB instance and Amazon S3 to store data. Previously, the company experienced a large-scale cyberattack that originated from a specific country where the company has no user base. Before the launch of the service, the company wants to block

all traffic that originates from that specific country. Which solution will meet this requirement?

- A. Create an EC2 security group to deny any traffic that comes from the specific country's CIDR ranges. Attach the security group to the ALB
- B. Create an RDS security group to deny any traffic that comes from the specific country's CIDR ranges. Attach the security group to the DB instance
- C. Create a Deny statement on the S3 bucket policy. Use a condition that specifies which country code to deny access to
- D. Create an AWS WAF web ACL that has a rule to block the traffic based on a geographical match condition. Associate the web ACL with the ALB

正确答案 D

第 813 题(单选题)

Q813. A company has deployed a business-critical application in the AWS Cloud. The application uses Amazon EC2 instances that run in the us-east-1 Region. The application uses Amazon S3 for storage of all critical data. To meet compliance requirements, the company must create a disaster recovery (DR) plan that provides the capability of a full failover to another AWS Region. What should a solutions architect recommend for this DR plan?

- A. Deploy the application to multiple Availability Zones in us-east-1. Create a resource group in AWS Resource Groups. Turn on automatic failover for the application to use a predefined recovery Region.
- B. Perform a virtual machine (VM) export by using AWS Import/Export on the existing EC2 instances. Copy the exported instances to the destination Region. In the event of a disaster, provision new EC2 instances from the exported EC2 instances
- C. Create snapshots of all Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the EC2 instances in us-east-1. Copy the

snapshots to the destination Region. In the event of a disaster, provision new EC2 instances from the EBS snapshots

D. Use S3 Cross-Region Replication for the data that is stored in Amazon S3. Create an AWS CloudFormation template for the application with an S3 bucket parameter. In the event of a disaster, deploy the template to the destination Region and specify the local S3 bucket as the parameter

正确答案 D

第 814 题(单选题)

Q814. A company has an application that runs on several Amazon EC2 instances in multiple Availability Zones. The application must have access to a highly available and shared mountable storage solution. The company also must automate the creation and encryption of backups. Which solution meets these requirements?

- A. Create an Amazon Elastic File System (Amazon EFS) file system with automatic backups turned on. Create mount targets in the same Availability Zone
- B. Create an Amazon Elastic File System (Amazon EFS) file system with automatic backups turned on. Create mount targets in several Availability Zones
- C. Use encrypted Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volumes. Automate snapshots with Amazon Data Lifecycle Manager (Amazon DLM).
- D. Use encrypted General Purpose SSD (gp2) Amazon Elastic Block Store (Amazon EBS) volumes with Multi-Attach. Automate snapshots with Amazon Data Lifecycle Manager (Amazon DLM).

正确答案 B

第 815 题(单选题)

Q815. A company has a financial application that produces reports. The reports average 50 KB in size and are stored in Amazon S3. The reports are frequently accessed during the first week after

production and must be stored for several years. The reports must be retrievable within 6 hours. Which solution meets these requirements MOST cost-effectively?

- A. Use S3Standard Use an S3 Lifecycle rule to transition the reports to S3 Glacier after 7 days
- B. Use S3Standard. Use an S3 Lifecycle rule to transition the reports to S3 Standard-Infrequent Access (S3 Standard-IA) after 7 days.
- C. Use S3Intelligent-Tiering. Configure S3Intelligent-Tiering to transition the reports to S3 Standard- Infrequent Access (S3 Standard-IA) and S3 Glacier.
- D. Use S3Standard Use an S3Lifecycle rule to transition the reports to S3 Glacier Deep Archive after 7days

正确答案 B

第 816 题(单选题)

Q816. A company runs an application on a large fleet of Amazon EC2 instances. The application reads and write entries into an Amazon DynamoDB table. The size of the DynamoDB table continuously grows, but the application needs only data from the last 30 days. The company needs a solution that minimizes cost and development effort. Which solution meets these requirements?

- A. Use an AWS CloudFormation template to deploy the complete solution. Redeploy the CloudFormation stack every 30 days, and delete the original stack.
- B. Use an EC2 instance that runs a monitoring application from AWS Marketplace. Configure the monitoring application to use Amazon DynamoDB Streams to store the timestamp when a new item is created in the table. Use a script that runs on the EC2 instance to delete items that have a timestamp that is older than 30 days
- C. Configure Amazon DynamoDB Streams to invoke an AWS Lambda function when a new item is created in the table. Configure the Lambda function to delete items in the table that are older than 30 days

D. Extend the application to add an attribute that has a value of the current timestamp plus 30 days to each new item that is created in the table. Configure DynamoDB to use the attribute as the TTL attribute.

正确答案 D

第 817 题(单选题)

Q817. A company serves its website by using an Auto Scaling group of Amazon EC2 instances in a single AWS Region. The website does not require a database. The company is expanding, and the company's engineering team deploys the website to a second Region. The company wants to distribute traffic across both Regions to accommodate growth and for disaster recovery purposes. The solution should not serve traffic from a Region in which the website is unhealthy. Which policy or resource should the company use to meet these requirements?

- A. An Amazon Route 53 simple routing policy
- B. An Amazon Route 53 multivalue answer routing policy
- C. An Application Load Balancer in one Region with a target group that specifies the EC2 instance IDs from both Regions
- D. An Application Load Balancer in one Region with a target group that specifies the IP addresses of the EC2 instances from both Regions

正确答案 B

第 818 题(单选题)

Q818. In DynamoDB, could you use IAM to grant access to Amazon DynamoDB resources and API actions?

- A. In DynamoDB there is no need to grant access
- B. Depended to the type of access
- C. No
- D. Yes

正确答案 D

Amazon DynamoDB integrates with AWS Identity and Access Management (IAM). You can use AWS IAM to grant access to Amazon DynamoDB resources and API actions. To do this, you first write an AWS IAM policy, which is a document that explicitly lists the permissions you want to grant. You then attach that policy to an AWS IAM user or role. Reference:<http://docs.aws.amazon.com/amazondynamodb/latest/developerguide/UsingIAMWithDDB.html>

第 819 题(单选题)

Q819. Much of your company's data does not need to be accessed often, and can take several hours for retrieval time, so it's stored on Amazon Glacier. However someone within your organization has expressed concerns that his data is more sensitive than the other data, and is wondering whether the high level of encryption that he knows is on S3 is also used on the much cheaper Glacier service. Which of the following statements would be most applicable in regards to this concern?

- A. There is no encryption on Amazon Glacier, that's why it is cheaper.
- B. Amazon Glacier automatically encrypts the data using AES-128 a lesser encryption method than Amazon S3 but you can change it to AES-256 if you are willing to pay more.
- C. Amazon Glacier automatically encrypts the data using AES-256, the same as Amazon S3.
- D. Amazon Glacier automatically encrypts the data using AES-128 a lesser encryption method than Amazon S3.

正确答案 C

解析：

Like Amazon S3, the Amazon Glacier service provides low-cost, secure, and durable storage. But where S3 is designed for rapid retrieval,

Glacier is meant to be used as an archival service for data that is not accessed often, and for which retrieval times of several hours are suitable. Amazon Glacier automatically encrypts the data using AES-256 and stores it durably in an immutable form. Amazon Glacier is designed to provide average annual durability of 99.99999999% for an archive. It stores each archive in multiple facilities and multiple devices. Unlike traditional systems which can require laborious data verification and manual repair, Glacier performs regular, systematic data integrity checks, and is built to be automatically self-healing. Reference:

<http://d0.awsstatic.com/whitepapers/Security/AWS%20Security%20Whitepaper.pdf>

第 820 题(单选题)

Q820. Your EBS volumes do not seem to be performing as expected and your team leader has requested you look into improving their performance. Which of the following is not a true statement relating to the performance of your EBS volumes?

- A. Frequent snapshots provide a higher level of data durability and they will not degrade the performance of your application while the snapshot is in progress.
- B. General Purpose (SSD) and Provisioned IOPS (SSD) volumes have a throughput limit of 128 MB/s per volume.
- C. There is a relationship between the maximum performance of your EBS volumes, the amount of I/O you are driving to them, and the amount of time it takes for each transaction to complete.
- D. There is a 5 to 50 percent reduction in IOPS when you first access each block of data on a newly created or restored EBS volume

正确答案 A

解析：

Several factors can affect the performance of Amazon EBS volumes, such as instance configuration, I/O characteristics, workload demand,

and storage configuration. Frequent snapshots provide a higher level of data durability, but they may slightly degrade the performance of your application while the snapshot is in progress. This trade off becomes critical when you have data that changes rapidly. Whenever possible, plan for snapshots to occur during off-peak times in order to minimize workload impact. Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSPerformance.html>

第 821 题(单选题)

Q821. You've created your first load balancer and have registered your EC2 instances with the load balancer. Elastic Load Balancing routinely performs health checks on all the registered EC2 instances and automatically distributes all incoming requests to the DNS name of your load balancer across your registered, healthy EC2 instances. By default, the load balancer uses the ___ protocol for checking the health of your instances.

- A. HTTPS
- B. HTTP
- C. ICMP
- D. IPv6

正确答案 B

解析：

In Elastic Load Balancing a health configuration uses information such as protocol, ping port, ping path (URL), response timeout period, and health check interval to determine the health state of the instances registered with the load balancer. Currently, HTTP on port 80 is the default health check. Reference:<http://docs.aws.amazon.com/ElasticLoadBalancing/latest/DeveloperGuide/TerminologyandKeyConcepts.html>

第 822 题(单选题)

Q822. A major finance organisation has engaged your company to set up a large data mining application. Using AWS you decide the best service for this is Amazon Elastic MapReduce (EMR) which you know uses Hadoop. Which of the following statements best describes Hadoop?

- A. Hadoop is 3rd Party software which can be installed using AMI
- B. Hadoop is an open source python web framework
- C. Hadoop is an open source Java software framework
- D. Hadoop is an open source javascript framework

正确答案 C

解析：

Amazon EMR uses Apache Hadoop as its distributed data processing engine. Hadoop is an open source, Java software framework that supports data-intensive distributed applications running on large clusters of commodity hardware. Hadoop implements a programming model named "MapReduce," where the data is divided into many small fragments of work, each of which may be executed on any node in the cluster. This framework has been widely used by developers, enterprises and startups and has proven to be a reliable software platform for processing up to petabytes of data on clusters of thousands of commodity machines. Reference:

<http://aws.amazon.com/elasticmapreduce/faqs/>

第 823 题(单选题)

Q823. In Amazon EC2 Container Service, are other container types supported?

- A. Yes, EC2 Container Service supports any container service you need.
- B. Yes, EC2 Container Service also supports Microsoft container service.

- C. No, Docker is the only container platform supported by EC2 Container Service presently.
- D. Yes, EC2 Container Service supports Microsoft container service and Openstack.

正确答案 C

解析：

In Amazon EC2 Container Service, Docker is the only container platform supported by EC2 Container Service presently. Reference:
<http://aws.amazon.com/ecs/faqs/>

第 824 题(单选题)

Q824. _____ is a fast, flexible, fully managed push messaging service.

- A. Amazon SNS
- B. Amazon SES
- C. Amazon SQS
- D. Amazon FPS

正确答案 A

解析：

Amazon Simple Notification Service (Amazon SNS) is a fast, flexible, fully managed push messaging service. Amazon SNS makes it simple and cost-effective to push to mobile devices such as iPhone, iPad, Android, Kindle Fire, and internet connected smart devices, as well as pushing to other distributed services. Reference:
http://aws.amazon.com/sns/?nc1=h_12_as

第 825 题(单选题)

Q825. As AWS grows, most of your clients' main concerns seem to be about security, especially when all of their competitors also seem to be using AWS. One of your clients asks you whether having a competitor who hosts their EC2 instances on the same physical host would make it easier for the competitor to hack into the client's data. Which of the following statements would be the best choice to put your client's mind at rest?

- A. Different instances running on the same physical machine are isolated from each other via a 256-bit Advanced Encryption Standard (AES-256).
- B. Different instances running on the same physical machine are isolated from each other via the Xen hypervisor and via a 256-bit Advanced Encryption Standard (AES-256).
- C. Different instances running on the same physical machine are isolated from each other via the Xen hypervisor.
- D. Different instances running on the same physical machine are isolated from each other via IAM permissions.

正确答案 C

解析：

Amazon Elastic Compute Cloud (EC2) is a key component in Amazon's Infrastructure as a Service (IaaS), providing resizable computing capacity using server instances in AWS's data centers. Amazon EC2 is designed to make web-scale computing easier by enabling you to obtain and configure capacity with minimal friction. You create and launch instances, which are collections of platform hardware and software. Different instances running on the same physical machine are isolated from each other via the Xen hypervisor. Amazon is active in the Xen community, which provides awareness of the latest developments. In addition, the AWS firewall resides within the hypervisor layer, between the physical network interface and the instance's virtual interface. All packets must pass through this layer, thus an instance's neighbors have no more access to that instance than any other host on the Internet and can be treated as if they are on

separate physical hosts. The physical RAM is separated using similar mechanisms. Reference:

<http://d0.awsstatic.com/whitepapers/Security/AWS%20Security%20Whitepaper.pdf>

第 826 题(单选题)

Q826. In Amazon RDS, security groups are ideally used to:

- A. Define maintenance period for database engines
- B. Launch Amazon RDS instances in a subnet
- C. Create, describe, modify, and delete DB instances
- D. Control what IP addresses or EC2 instances can connect to your databases on a DB instance

正确答案 D

解析：

In Amazon RDS, security groups are used to control what IP addresses or EC2 instances can connect to your databases on a DB instance. When you first create a DB instance, its firewall prevents any database access except through rules specified by an associated security group. Reference:

<http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/UsingWithRDS.html>

第 827 题(单选题)

Q827. You need to set up a complex network infrastructure for your organization that will be reasonably easy to deploy, replicate, control, and track changes on. Which AWS service would be best to use to help you accomplish this?

- A. AWS Import/Export
- B. AWS CloudFormation

- C. Amazon Route 53
- D. Amazon CloudWatch

正确答案 B

解析：

AWS CloudFormation is a service that helps you model and set up your Amazon Web Services resources so that you can spend less time managing those resources and more time focusing on your applications that run in AWS. You create a template that describes all the AWS resources that you want (like Amazon EC2 instances or Amazon RDS DB instances), and AWS CloudFormation takes care of provisioning and configuring those resources for you. You don't need to individually create and configure AWS resources and figure out what's dependent on what. AWS CloudFormation handles all of that. Reference:

[第 828 题\(单选题\)](http://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide>Welcome.html</p></div><div data-bbox=)

Q828. You have just been given a scope for a new client who has an enormous amount of data(petabytes) that he constantly needs analysed. Currently he is paying a huge amount of money for a data warehousing company to do this for him and is wondering if AWS can provide a cheaper solution. Do you think AWS has a solution for this?

- A. Yes. Amazon SimpleDB
- B. No. Not presently
- C. Yes. Amazon Redshift
- D. Yes. Your choice of relational AMIs on Amazon EC2 and EBS

正确答案 C

解析：

Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse service that makes it simple and cost-effective to

efficiently analyze all your data using your existing business intelligence tools. You can start small for just \$0.25 per hour with no commitments or upfront costs and scale to a petabyte or more for \$1,000 per terabyte per year, less than a tenth of most other data warehousing solutions. Amazon Redshift delivers fast query performance by using columnar storage technology to improve I/O efficiency and parallelizing queries across multiple nodes. Redshift uses standard PostgreSQL JDBC and ODBC drivers, allowing you to use a wide range of familiar SQL clients. Data load speed scales linearly with cluster size, with integrations to Amazon S3, Amazon DynamoDB, Amazon Elastic MapReduce, Amazon Kinesis or any SSH- enabled host. Reference:

https://aws.amazon.com/running_databases/#redshift_anchor

第 829 题(单选题)

Q829. In an experiment, if the minimum size for an Auto Scaling group is 1 instance, which of the following statements holds true when you terminate the running instance?

- A. Auto Scaling must launch a new instance to replace it.
- B. Auto Scaling will raise an alarm and send a notification to the user for action.
- C. Auto Scaling must configure the schedule activity that terminates the instance after 5 days.
- D. Auto Scaling will terminate the experiment.

正确答案 A

解析：

If the minimum size for an Auto Scaling group is 1 instance, when you terminate the running instance, Auto Scaling must launch a new instance to replace

[it. http://docs.aws.amazon.com/AmazonCloudWatch/latest/DeveloperGuide/AS_Concepts.html](http://docs.aws.amazon.com/AmazonCloudWatch/latest/DeveloperGuide/AS_Concepts.html)

第 830 题(单选题)

Q830. In Amazon EC2, while sharing an Amazon EBS snapshot, can the snapshots with AWS Marketplace product codes be public?

- A. Yes, but only for US-based providers.
- B. Yes, they can be public.
- C. No, they cannot be made public.
- D. Yes, they are automatically made public by the system.

正确答案 C

解析：

Snapshots with AWS Marketplace product codes can't be made public.

Reference:

<http://docs.amazonaws.com/AWSEC2/latest/UserGuide/ebs-modifying-snapshot-permissions.html>

第 831 题(单选题)

Q831. An organization has created an application which is hosted on the AWS EC2 instance. The application stores images to S3 when the end user uploads to it. The organization does not want to store the AWS secure credentials required to access the S3 inside the instance. Which of the below mentioned options is a possible solution to avoid any security threat?

- A. Use the IAM based single sign between the AWS resources and the organization application.
- B. Use the IAM role and assign it to the instance.
- C. Since the application is hosted on EC2, it does not need credentials to access S3.
- D. Use the X.509 certificates instead of the access and the secret access keys.

正确答案 B

解析：

The AWS IAM role uses temporary security credentials to access AWS services. Once the role is assigned to an instance, it will not need any security credentials to be stored on the instance. Reference:
<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/iam-roles-for-amazon-ec2.html>

第 832 题(单选题)

Q832. Can resource record sets in a hosted zone have a different domain suffix (for example, www.blog.acme.com and www.acme.ca)?

- A. Yes, it can have for a maximum of three different TLDs.
- B. Yes
- C. Yes, it can have depending on the TLD.
- D. No

正确答案 D

解析：

The resource record sets contained in a hosted zone must share the same suffix. For example, the example.com hosted zone can contain resource record sets for www.example.com and www.aws.example.com subdomains, but it cannot contain resource record sets for a www.example.ca subdomain. Reference:

<http://docs.aws.amazon.com/Route53/latest/DeveloperGuide/AboutHostedZones.html>

第 833 题(单选题)

Q833. You are running PostgreSQL on Amazon RDS and it seems to be all running smoothly deployed in one availability zone. A database administrator asks you if DB instances running PostgreSQL support

Multi-AZ deployments. What would be a correct response to this question?

- A. Yes.
- B. Yes but only for small db instances.
- C. No.
- D. Yes but you need to request the service from AWS.

正确答案 A

解析：

Amazon RDS supports DB instances running several versions of PostgreSQL. Currently we support PostgreSQL versions 9.3.1, 9.3.2, and 9.3.3. You can create DB instances and DB snapshots, point-in-time restores and backups. DB instances running PostgreSQL support Multi-AZ deployments, Provisioned IOPS, and can be created inside a VPC. You can also use SSL to connect to a DB instance running PostgreSQL. You can use any standard SQL client application to run commands for the instance from your client computer. Such applications include pgAdmin, a popular Open Source administration and development tool for PostgreSQL, or psql, a command line utility that is part of a PostgreSQL installation. In order to deliver a managed service experience, Amazon RDS does not provide host access to DB instances, and it restricts access to certain system procedures and tables that require advanced privileges. Amazon RDS supports access to databases on a DB instance using any standard SQL client application. Amazon RDS does not allow direct host access to a DB instance via Telnet or Secure Shell (SSH). Reference:

http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_PostgreSQL.html

第 834 题(单选题)

Q834. A user has launched 10 EC2 instances inside a placement group. Which of the below mentioned statements is true with respect to the placement group?

- A. All instances must be in the same AZ
- B. All instances can be across multiple regions
- C. The placement group cannot have more than 5 instances
- D. All instances must be in the same region

正确答案 A

解析：

A placement group is a logical grouping of EC2 instances within a single Availability Zone. Using placement groups enables applications to participate in a low-latency, 10 Gbps network. Placement groups are recommended for applications that benefit from low network latency, high network throughput or both. Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

第 835 题(单选题)

Q835. Which of the following AWS CLI commands is syntactically incorrect?
1. \$ aws ec2 describe-instances
2. \$ aws ec2 start-instances --instance-ids i-1348636c
3. \$ aws sns publish --topic-arn arn:aws:sns:us-east-1:546419318123:OperationsError -message "Script Failure"
4. \$ aws sqs receive-message --queue-url <https://queue.amazonaws.com/546419318123/Test>

- A. 3
- B. 4
- C. 2
- D. 1

正确答案 A

解析：

The following CLI command is missing a hyphen before "-message". aws sns publish --topic-arn arn:aws:sns:us-east-

1:546419318123:OperationsError -message "Script Failure" It has been added below in redaws sns publish --topic-arn arn:aws:sns:us-east-1:546419318123:OperationsError ---message "Script Failure"Reference: <http://aws.amazon.com/cli/>

第 836 题(单选题)

Q836. An organization has developed a mobile application which allows end users to capture a photo on their mobile device, and store it inside an application. The application internally uploads the data to AWS S3. The organization wants each user to be able to directly upload data to S3 using their Google ID. How will the mobile app allow this?

- A. Use the AWS Web identity federation for mobile applications, and use it to generate temporary security credentials for each user.
- B. It is not possible to connect to AWS S3 with a Google ID.
- C. Create an IAM user every time a user registers with their Google ID and use IAM to upload files to S3.
- D. Create a bucket policy with a condition which allows everyone to upload if the login ID has a Google part to it.

正确答案 A

解析：

For Amazon Web Services, the Web identity federation allows you to create cloud-backed mobile apps that use public identity providers, such as login with Facebook, Google, or Amazon. It will create temporary security credentials for each user, which will be authenticated by the AWS services, such as S3. Reference:

<http://docs.aws.amazon.com/STS/latest/UsingSTS/CreatingWIF.html>

第 837 题(单选题)

Q837. You are architecting an auto-scalable batch processing system using video processing pipelines and Amazon Simple Queue Service

(Amazon SQS) for a customer. You are unsure of the limitations of SQS and need to find out. What do you think is a correct statement about the limitations of Amazon SQS?

- A. It supports an unlimited number of queues but a limited number of messages per queue for each user but automatically deletes messages that have been in the queue for more than 4 weeks.
- B. It supports an unlimited number of queues and unlimited number of messages per queue for each user but automatically deletes messages that have been in the queue for more than 4 days.
- C. It supports an unlimited number of queues but a limited number of messages per queue for each user but automatically deletes messages that have been in the queue for more than 4 days.
- D. It supports an unlimited number of queues and unlimited number of messages per queue for each user but automatically deletes messages that have been in the queue for more than 4 weeks.

正确答案 B

解析：

Amazon Simple Queue Service (Amazon SQS) is a messaging queue service that handles message or workflows between other components in a system. Amazon SQS supports an unlimited number of queues and unlimited number of messages per queue for each user. Please be aware that Amazon SQS automatically deletes messages that have been in the queue for more than 4 days. Reference:

<http://aws.amazon.com/documentation/sqs/>

第 838 题(单选题)

Q838. An online gaming site asked you if you can deploy a database that is a fast, highly scalable NoSQL database service in AWS for a new site that he wants to build. Which database should you recommend?

- A. Amazon DynamoDB
- B. Amazon RDS

C. Amazon Redshift

D. Amazon SimpleDB

正确答案 A

解析：

Amazon DynamoDB is ideal for database applications that require very low latency and predictable performance at any scale but don't need complex querying capabilities like joins or transactions. Amazon DynamoDB is a fully-managed NoSQL database service that offers high performance, predictable throughput and low cost. It is easy to set up, operate, and scale. With Amazon DynamoDB, you can start small, specify the throughput and storage you need, and easily scale your capacity requirements on the fly. Amazon DynamoDB automatically partitions data over a number of servers to meet your request capacity. In addition, DynamoDB automatically replicates your data synchronously across multiple Availability Zones within an AWS Region to ensure high-availability and data durability. Reference:

https://aws.amazon.com/running_databases/#dynamodb_anchor

第 839 题(单选题)

Q839. You have been doing a lot of testing of your VPC Network by deliberately failing EC2 instances to test whether instances are failing over properly. Your customer who will be paying the AWS bill for all this asks you if he is being charged for all these instances. You try to explain to him how the billing works on EC2 instances to the best of your knowledge. What would be an appropriate response to give to the customer in regards to this?

A. Billing commences when Amazon EC2 AMI instance is completely up and billing ends as soon as the instance starts to shut down.

B. Billing only commences only after 1 hour of uptime and billing ends when the instance terminates.

C. Billing commences when Amazon EC2 initiates the boot sequence of an AMI instance and billing ends when the instance shuts down.

D. Billing commences when Amazon EC2 initiates the boot sequence of an AMI instance and billing ends as soon as the instance starts to shut down.

正确答案 C

解析：

Billing commences when Amazon EC2 initiates the boot sequence of an AMI instance. Billing ends when the instance shuts down, which could occur through a web services command, by running "shutdown -h", or through instance failure. Reference:

<http://aws.amazon.com/ec2/faqs/#Billing>

第 840 题(单选题)

Q840. You log in to IAM on your AWS console and notice the following message. "Delete your root access keys." Why do you think IAM is requesting this?

- A. Because the root access keys will expire as soon as you log out.
- B. Because the root access keys expire after 1 week.
- C. Because the root access keys are the same for all users.
- D. Because they provide unrestricted access to your AWS resources.

正确答案 D

解析：

In AWS an access key is required in order to sign requests that you make using the command-line interface (CLI), using the AWS SDKs, or using direct API calls. Anyone who has the access key for your root account has unrestricted access to all the resources in your account, including billing information. One of the best ways to protect your account is to not have an access key for your root account. We recommend that unless you must have a root access key (this is very rare), that you do not generate one. Instead, AWS best practice is to create one or more AWS Identity and Access Management (IAM) users,

give them the necessary permissions, and use IAM users for everyday interaction with

AWS. Reference:<http://docs.aws.amazon.com/general/latest/gr/aws-access-keys-best-practices.html#root-password>

第 841 题(单选题)

Q841. Once again your customers are concerned about the security of their sensitive data and with their latest enquiry ask about what happens to old storage devices on AWS. What would be the best answer to this question?

- A. AWS reformats the disks and uses them again.
- B. AWS uses the techniques detailed in DoD 5220.22-M to destroy data as part of the decommissioning process.
- C. AWS uses their own proprietary software to destroy data as part of the decommissioning process.
- D. AWS uses a 3rd party security organization to destroy data as part of the decommissioning process.

正确答案 B

解析:

When a storage device has reached the end of its useful life, AWS procedures include a decommissioning process that is designed to prevent customer data from being exposed to unauthorized individuals. AWS uses the techniques detailed in DoD 5220.22-M ("National Industrial Security Program Operating Manual ") or NIST 800-88 ("Guidelines for Media Sanitization") to destroy data as part of the decommissioning process .All decommissioned magnetic storage devices are degaussed and physically destroyed in accordance with industry-standard practices. Reference:

<http://d0.awsstatic.com/whitepapers/Security/AWS%20Security%20Whitepaper.pdf>

第 842 题(单选题)

Q842. Your company has been storing a lot of data in Amazon Glacier and has asked for an inventory of what is in there exactly. So you have decided that you need to download a vault inventory. Which of the following statements is incorrect in relation to Vault Operations in Amazon Glacier?

- A. You can use Amazon Simple Notification Service (Amazon SNS) notifications to notify you when the job completes.
- B. A vault inventory refers to the list of archives in a vault.
- C. You can use Amazon Simple Queue Service (Amazon SQS) notifications to notify you when the job completes.
- D. Downloading a vault inventory is an asynchronous operation.

正确答案 C

解析：

Amazon Glacier supports various vault operations. A vault inventory refers to the list of archives in a vault. For each archive in the list, the inventory provides archive information such as archive ID, creation date, and size. Amazon Glacier updates the vault inventory approximately once a day, starting on the day the first archive is uploaded to the vault. A vault inventory must exist for you to be able to download it. Downloading a vault inventory is an asynchronous operation. You must first initiate a job to download the inventory. After receiving the job request, Amazon Glacier prepares your inventory for download. After the job completes, you can download the inventory data. Given the asynchronous nature of the job, you can use Amazon Simple Notification Service (Amazon SNS) notifications to notify you when the job completes. You can specify an Amazon SNS topic for each individual job request or configure your vault to send a notification when specific vault events occur. Amazon Glacier prepares an inventory for each vault periodically, every 24 hours. If there have been no archive additions or deletions to the vault since the last inventory, the inventory date is not updated. When you initiate a job for a vault inventory, Amazon Glacier returns the last inventory it generated, which is a point-in-time snapshot and not

real-time data. You might not find it useful to retrieve vault inventory for each archive upload. However, suppose you maintain a database on the client-side associating metadata about the archives you upload to Amazon Glacier. Then, you might find the vault inventory useful to reconcile information in your database with the actual vault inventory. Reference:

<http://docs.aws.amazon.com/amazonglacier/latest/dev/working-with-vaults.html>

第 843 题(单选题)

Q843. A customer enquires about whether all his data is secure on AWS and is especially concerned about Elastic Map Reduce (EMR) so you need to inform him of some of the security features in place for AWS. Which of the below statements would be an incorrect response to your customers enquiry?

- A. Amazon EMR customers can choose to send data to Amazon S3 using the HTTPS protocol for secure transmission.
- B. Amazon S3 provides authentication mechanisms to ensure that stored data is secured against unauthorized access.
- C. Every packet sent in the AWS network uses Internet Protocol Security (IPsec).
- D. Customers may encrypt the input data before they upload it to Amazon S3.

正确答案 C

解析：

Amazon S3 provides authentication mechanisms to ensure that stored data is secured against unauthorized access. Unless the customer who is uploading the data specifies otherwise, only that customer can access the data. Amazon EMR customers can also choose to send data to Amazon S3 using the HTTPS protocol for secure transmission. In addition, Amazon EMR always uses HTTPS to send data between Amazon S3 and Amazon EC2. For added security, customers may encrypt the input

data before they upload it to Amazon S3 (using any common data compression tool); they then need to add a decryption step to the beginning of their cluster when Amazon EMR fetches the data from Amazon S3. Reference: <https://aws.amazon.com/elasticmapreduce/faqs/>

第 844 题(单选题)

Q844. You are in the process of building an online gaming site for a client and one of the requirements is that it must be able to process vast amounts of data easily. Which AWS Service would be very helpful in processing all this data?

- A. Amazon S3
- B. AWS Data Pipeline
- C. AWS Direct Connect
- D. Amazon EMR

正确答案 D

解析：

Managing and analyzing high data volumes produced by online games platforms can be difficult. The back-end infrastructures of online games can be challenging to maintain and operate. Peak usage periods, multiple players, and high volumes of write operations are some of the most common problems that operations teams face. Amazon Elastic MapReduce (Amazon EMR) is a service that processes vast amounts of data easily. Input data can be retrieved from web server logs stored on Amazon S3 or from player data stored in Amazon DynamoDB tables to run analytics on player behavior, usage patterns, etc. Those results can be stored again on Amazon S3, or inserted in a relational database for further analysis with classic business intelligence tools. Reference:

http://media.amazonaws.com/architecturecenter/AWS_ac_ra_games_10.pdf

第 845 题(单选题)

- Q845. You need to change some settings on Amazon Relational Database Service but you do not want the database to reboot immediately which you know might happen depending on the setting that you change. Which of the following will cause an immediate DB instance reboot to occur?
- A. You change storage type from standard to PIOPS, and Apply Immediately is set to true.
 - B. You change the DB instance class, and Apply Immediately is set to false.
 - C. You change a static parameter in a DB parameter group.
 - D. You change the backup retention period for a DB instance from 0 to a nonzero value or from a nonzero value to 0, and Apply Immediately is set to false.

正确答案 A

解析：

A DB instance outage can occur when a DB instance is rebooted, when the DB instance is put into a state that prevents access to it, and when the database is restarted. A reboot can occur when you manually reboot your DB instance or when you change a DB instance setting that requires a reboot before it can take effect. A DB instance reboot occurs immediately when one of the following occurs: You change the backup retention period for a DB instance from 0 to a nonzero value or from a nonzero value to 0 and set Apply Immediately to true. You change the DB instance class, and Apply Immediately is set to true. You change storage type from standard to PIOPS, and Apply Immediately is set to true. A DB instance reboot occurs during the maintenance window when one of the following occurs: You change the backup retention period for a DB instance from 0 to a nonzero value or from a nonzero value to 0, and Apply Immediately is set to false. You change the DB instance class, and Apply Immediately is set to false.

Reference: http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Troubleshooting.html#CHAP_Troubleshooting.Security

第 846 题(单选题)

Q846. What does the following policy for Amazon EC2 do? {"Statement": [{"Effect": "Allow", "Action": "ec2:Describe*", "Resource": "*"}]}

- A. Allow users to use actions that start with "Describe" over all the EC2 resources.
- B. Share an AMI with a partner
- C. Share an AMI within the account
- D. Allow a group to only be able to describe, run, stop, start, and terminate instances

正确答案 A

解析：

You can use IAM policies to control the actions that your users can perform against your EC2 resources. For instance, a policy with the following statement will allow users to perform actions whose name start with "Describe" against all your EC2 resources. {"Statement": [{"Effect": "Allow", "Action": "ec2:Describe*", "Resource": "*"}]} Reference:

<http://docs.amazonaws.com/AWSEC2/latest/UserGuide/UsingIAM.html>

第 847 题(单选题)

Q847. You are setting up a very complex financial services grid and so far it has 5 Elastic IP (EIP) addresses. You go to assign another EIP address, but all accounts are limited to 5 Elastic IP addresses per region by default, so you aren't able to. What is the reason for this?

- A. For security reasons.
- B. Hardware restrictions.
- C. Public (IPV4) internet addresses are a scarce resource.

D. There are only 5 network interfaces per instance.

正确答案 C

解析：

Public (IPV4) internet addresses are a scarce resource. There is only a limited amount of public IP space available, and Amazon EC2 is committed to helping use that space efficiently. By default, all accounts are limited to 5 Elastic IP addresses per region. If you need more than 5 Elastic IP addresses, AWS asks that you apply for your limit to be raised. They will ask you to think through your use case and help them understand your need for additional addresses. Reference:

<http://aws.amazon.com/ec2/faqs/#How many instances can I run in Amazon EC2>

第 848 题(单选题)

Q848. Amazon RDS provides high availability and failover support for DB instances using _____.

- A. customized deployments
- B. Appstream customizations
- C. log events
- D. Multi-AZ deployments

正确答案 D

解析：

Amazon RDS provides high availability and failover support for DB instances using Multi-AZ deployments. Multi-AZ deployments for Oracle, PostgreSQL, MySQL, and MariaDB DB instances use Amazon technology, while SQL Server DB instances use SQL Server Mirroring. Reference:

<http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>

第 849 题(单选题)

Q849. A major customer has asked you to set up his AWS infrastructure so that it will be easy to recover in the case of a disaster of some sort. Which of the following is important when thinking about being able to quickly launch resources in AWS to ensure business continuity in case of a disaster?

- A. Create and maintain AMIs of key servers where fast recovery is required.
- B. Regularly run your servers, test them, and apply any software updates and configuration changes.
- C. All items listed here are important when thinking about disaster recovery.
- D. Ensure that you have all supporting custom software packages available in AWS.

正确答案 C

解析：

In the event of a disaster to your AWS infrastructure you should be able to quickly launch resources in Amazon Web Services (AWS) to ensure business continuity .The following are some key steps you should have in place for preparation:\1. Set up Amazon EC2 instances to replicate or mirror data. \2. Ensure that you have all supporting custom software packages available in AWS. \3. Create and maintain AMIs of key servers where fast recovery is required. \4. Regularly run these servers, test them, and apply any software updates and configuration changes. \5. Consider automating the provisioning of AWS resources. Reference:

http://d36cz9buwrultt.cloudfront.net/AWS_Disaster_Recovery.pdf

第 850 题(单选题)

Q850. What does Amazon DynamoDB provide?

- A. A predictable and scalable MySQL database
- B. A fast and reliable PL/SQL database cluster
- C. A standalone Cassandra database, managed by Amazon Web Services
- D. A fast, highly scalable managed NoSQL database service

正确答案 D

解析：

Amazon DynamoDB is a managed NoSQL database service offered by Amazon. It automatically manages tasks like scalability for you while it provides high availability and durability for your data, allowing you to concentrate in other aspects of your application. Reference:
https://aws.amazon.com/running_databases/

第 851 题(单选题)

Q851. You want to use AWS Import/Export to send data from your S3 bucket to several of your branch offices. What should you do if you want to send 10 storage units to AWS?

- A. Make sure your disks are encrypted prior to shipping.
- B. Make sure you format your disks prior to shipping.
- C. Make sure your disks are 1TB or more.
- D. Make sure you submit a separate job request for each device.

正确答案 D

解析：

When using Amazon Import/Export, a separate job request needs to be submitted for each physical device even if they belong to the same import or export job. Reference:

<http://docs.aws.amazon.com/AWSImportExport/latest/DG/Concepts.html>

第 852 题(单选题)

Q852. What would be the best way to retrieve the public IP address of your EC2 instance using the CLI?

- A. Using tags
- B. Using traceroute
- C. Using ipconfig
- D. Using instance metadata

正确答案 D

解析：

To determine your instance's public IP address from within the instance, you can use instance metadata. Use the following command to access the public IP address: For Linux use, \$ curl http://169.254.169.254/latest/meta-data/public-ipv4, and for Windows use, \$ wget http://169.254.169.254/latest/meta-data/public-ipv4. Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-instance-addressing.html>

第 853 题(单选题)

Q853. You need to measure the performance of your EBS volumes as they seem to be under performing. You have come up with a measurement of 1,024 KB I/O but your colleague tells you that EBS volume performance is measured in IOPS. How many IOPS is equal to 1,024 KB I/O?

- A. 16
- B. 256
- C. 8
- D. 4

正确答案 D

解析：

Several factors can affect the performance of Amazon EBS volumes, such as instance configuration, I/O characteristics, workload demand, and storage configuration. IOPS are input/output operations per second. Amazon EBS measures each I/O operation per second (that is 256 KB or smaller) as one IOPS. I/O operations that are larger than 256 KB are counted in 256 KB capacity units. For example, a 1,024 KB I/O operation would count as 4 IOPS. When you provision a 4,000 IOPS volume and attach it to an EBS-optimized instance that can provide the necessary bandwidth, you can transfer up to 4,000 chunks of data per second (provided that the I/O does not exceed the 128 MB/s per volume throughput limit of General Purpose (SSD) and Provisioned IOPS (SSD) volumes). Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSPerformance.html>

第 854 题(单选题)

Q854. Having set up a website to automatically be redirected to a backup website if it fails, you realize that there are different types of failovers that are possible. You need all your resources to be available the majority of the time. Using Amazon Route 53 which configuration would best suit this requirement?

- A. Active-active failover.
- B. None. Route 53 can't failover.
- C. Active-passive failover.
- D. Active-active-passive and other mixed configurations.

正确答案 A

解析：

You can set up a variety of failover configurations using Amazon Route 53 alias: weighted, latency, geolocation routing, and failover

resource record sets. Active-active failover: Use this failover configuration when you want all of your resources to be available the majority of the time. When a resource becomes unavailable, Amazon Route 53 can detect that it's unhealthy and stop including it when responding to queries. Active-passive failover: Use this failover configuration when you want a primary group of resources to be available the majority of the time and you want a secondary group of resources to be on standby in case all of the primary resources become unavailable. When responding to queries, Amazon Route 53 includes only the healthy primary resources. If all of the primary resources are unhealthy, Amazon Route 53 begins to include only the healthy secondary resources in response to DNS queries. Active-active-passive and other mixed configurations: You can combine alias and non-alias resource record sets to produce a variety of Amazon Route 53 behaviors. Reference:

<http://docs.aws.amazon.com/Route53/latest/DeveloperGuide/dns-failover.html>

第 855 题(单选题)

Q855. AWS CloudFormation is a service that helps you model and set up your Amazon Web Services resources so that you can spend less time managing those resources and more time focusing on your applications that run in AWS. You create a template that describes all the AWS resources that you want (like Amazon EC2 instances or Amazon RDS DB instances), and AWS CloudFormation takes care of provisioning and configuring those resources for you. What formatting is required for this template?

- A. JSON-formatted document
- B. CSS-formatted document
- C. XML-formatted document
- D. HTML-formatted document

正确答案 A

解析：

You can write an AWS CloudFormation template (a JSON-formatted document) in a text editor or pick an existing template. The template describes the resources you want and their settings. For example, suppose you want to create an Amazon EC2. Your template can declare an instance Amazon EC2 and describe its properties, as shown in the following example:

```
{"AWSTemplateFormatVersion": "2010-09-09", "Description": "A simple Amazon EC2 instance", "Resources": {"MyEC2Instance": {"Type": "AWS::EC2::Instance", "Properties": {"ImageId": "ami-2f726546", "InstanceType": "t1.micro"}}}}
```

Reference: <http://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/cfn-whatis-howdoesitwork.html>

第 856 题(单选题)

Q856. True or False: In Amazon Route 53, you can create a hosted zone for a top-level domain (TLD).

- A. FALSE
- B. False, Amazon Route 53 automatically creates it for you.
- C. True, only if you send an XML document with a Create Hosted Zone Request element for TLD.
- D. TRUE

正确答案 A

解析:

In Amazon Route 53, you cannot create a hosted zone for a top-level domain (TLD). Reference:

http://docs.aws.amazon.com/Route53/latest/APIReference/API_CreateHostedZone.html

第 857 题(单选题)

Q857. You decide that you need to create a number of Auto Scaling groups to try and save some money as you have noticed that at certain times most of your EC2 instances are not being used. By default, what

is the maximum number of Auto Scaling groups that AWS will allow you to create?

- A. 12
- B. Unlimited
- C. 20
- D. 2

正确答案 C

解析：

Auto Scaling is an AWS service that allows you to increase or decrease the number of EC2 instances within your application's architecture. With Auto Scaling, you create collections of EC2 instances, called Auto Scaling groups. You can create these groups from scratch, or from existing EC2 instances that are already in production. Reference:

http://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html#limits_autoscaling

第 858 题(单选题)

Q858. A user needs to run a batch process which runs for 10 minutes. This will only be run once, or at maximum twice, in the next month, so the processes will be temporary only. The process needs 15 X-Large instances. The process downloads the code from S3 on each instance when it is launched, and then generates a temporary log file. Once the instance is terminated, all the data will be lost. Which of the below mentioned pricing models should the user choose in this case?

- A. Spot instance.
- B. Reserved instance.
- C. On-demand instance.
- D. EBS optimized instance.

正确答案 A

解析：

In Amazon Web Services, the spot instance is useful when the user wants to run a process temporarily. The spot instance can terminate the instance if the other user outbids the existing bid. In this case all storage is temporary and the data is not required to be persistent. Thus, the spot instance is a good option to save money. Reference: <http://aws.amazon.com/ec2/purchasing-options/spot-instances/>

第 859 题(单选题)

Q859. Which of the following is NOT a characteristic of Amazon Elastic Compute Cloud (Amazon EC2)?

- A. It can be used to launch as many or as few virtual servers as you need.
- B. It increases the need to forecast traffic by providing dynamic IP addresses for static cloud computing.
- C. It eliminates your need to invest in hardware up front, so you can develop and deploy applications faster.
- D. It offers scalable computing capacity in the Amazon Web Services (AWS) cloud.

正确答案 B

解析：

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in

popularity, reducing your need to forecast traffic. Reference:
<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/concepts.html>

第 860 题(单选题)

Q860. You have been storing massive amounts of data on Amazon Glacier for the past 2 years and now start to wonder if there are any limitations on this. What is the correct answer to your question?

- A. The total volume of data is limited but the number of archives you can store are unlimited.
- B. The total volume of data is unlimited but the number of archives you can store are limited.
- C. The total volume of data and number of archives you can store are unlimited.
- D. The total volume of data is limited and the number of archives you can store are limited.

正确答案 C

解析：

An archive is a durably stored block of information. You store your data in Amazon Glacier as archives. You may upload a single file as an archive, but your costs will be lower if you aggregate your data. TAR and ZIP are common formats that customers use to aggregate multiple files into a single file before uploading to Amazon Glacier. The total volume of data and number of archives you can store are unlimited. Individual Amazon Glacier archives can range in size from 1 byte to 40 terabytes. The largest archive that can be uploaded in a single upload request is 4 gigabytes. For items larger than 100 megabytes, customers should consider using the Multipart upload capability. Archives stored in Amazon Glacier are immutable, i.e. archives can be uploaded and deleted but cannot be edited or overwritten. Reference: <https://aws.amazon.com/glacier/faqs/>

第 861 题(单选题)

Q861. You are setting up your first Amazon Virtual Private Cloud (Amazon VPC) so you decide to use the VPC wizard in the AWS console to help make it easier for you. Which of the following statements is correct regarding instances that you launch into a default subnet via the VPC wizard?

- A. Instances that you launch into a default subnet receive a public IP address and 10 private IP addresses.
- B. Instances that you launch into a default subnet receive both a public IP address and a private IP address.
- C. Instances that you launch into a default subnet don't receive any ip addresses and you need to define them manually.
- D. Instances that you launch into a default subnet receive a public IP address and 5 private IP addresses.

正确答案 B

解析：

Instances that you launch into a default subnet receive both a public IP address and a private IP address. Instances in a default subnet also receive both public and private DNS hostnames. Instances that you launch into a nondefault subnet in a default VPC don't receive a public IP address or a DNS hostname. You can change your subnet's default public IP addressing behavior. Reference:

<http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/default-vpc.html>

第 862 题(单选题)

Q862. A user has configured ELB with two EBS backed EC2 instances. The user is trying to understand the DNS access and IP support for ELB. Which of the below mentioned statements may not help the user understand the IP mechanism supported by ELB?

- A. The client can connect over IPV4 or IPV6 using Dualstack

- B. Communication between the load balancer and back-end instances is always through IPV4
- C. ELB DNS supports both IPV4 and IPV6
- D. The ELB supports either IPV4 or IPV6 but not both

正确答案 D

解析：

Elastic Load Balancing supports both Internet Protocol version 6 (IPv6) and Internet Protocol version 4 (IPv4). Clients can connect to the user's load balancer using either IPv4 or IPv6 (in EC2-Classic) DNS. However, communication between the load balancer and its back-end instances uses only IPv4. The user can use the Dualstack-prefixed DNS name to enable IPv6 support for communications between the client and the load balancers. Thus, the clients are able to access the load balancer using either IPv4 or IPv6 as their individual connectivity needs dictate. Reference:

<http://docs.aws.amazon.com/ElasticLoadBalancing/latest/DeveloperGuide/UserScenariosForEC2.html>

第 863 题(单选题)

Q863. Does AWS CloudFormation support Amazon EC2 tagging?

- A. Yes, AWS CloudFormation supports Amazon EC2 tagging
- B. No, CloudFormation doesn't support any tagging
- C. No, it doesn't support Amazon EC2 tagging.
- D. It depends if the Amazon EC2 tagging has been defined in the template.

正确答案 A

解析：

In AWS CloudFormation, Amazon EC2 resources that support the tagging feature can also be tagged in an AWS template. The tag values can

refer to template parameters, other resource names, resource attribute values (e.g. addresses), or values computed by simple functions (e.g., a concatenated list of strings). Reference:
<http://aws.amazon.com/cloudformation/faqs/>

第 864 题(单选题)

Q864. An existing client comes to you and says that he has heard that launching instances into a VPC (virtual private cloud) is a better strategy than launching instances into a EC2-classic which he knows is what you currently do. You suspect that he is correct and he has asked you to do some research about this and get back to him. Which of the following statements is true in regards to what ability launching your instances into a VPC instead of EC2-Classic gives you?

- A. All of the things listed here.
- B. Change security group membership for your instances while they're running
- C. Assign static private IP addresses to your instances that persist across starts and stops
- D. Define network interfaces, and attach one or more network interfaces to your instances

正确答案 A

解析：

By launching your instances into a VPC instead of EC2-Classic, you gain the ability to :Assign static private IP addresses to your instances that persist across starts and stops Assign multiple IP addresses to your instances Define network interfaces, and attach one or more network interfaces to your instances Change security group membership for your instances while they're running Control the outbound traffic from your instances (egress filtering) in addition to controlling the inbound traffic to them (ingress filtering) Add an additional layer of access control to your instances in the form of network access control lists (ACL) Run your instances on single-

tenant hardware Reference:

http://media.amazonaws.com/AWS_Cloud_Best_Practices.pdf

第 865 题(单选题)

Q865. Amazon S3 allows you to set per-file permissions to grant read and/or write access. However you have decided that you want an entire bucket with 100 files already in it to be accessible to the public. You don't want to go through 100 files individually and set permissions. What would be the best way to do this?

- A. Move the bucket to a new region
- B. Add a bucket policy to the bucket.
- C. Move the files to a new bucket.
- D. Use Amazon EBS instead of S3

正确答案 B

解析：

Amazon S3 supports several mechanisms that give you flexibility to control who can access your data as well as how, when, and where they can access it. Amazon S3 provides four different access control mechanisms: AWS Identity and Access Management (IAM) policies, Access Control Lists (ACLs), bucket policies, and query string authentication. IAM enables organizations to create and manage multiple users under a single AWS account. With IAM policies, you can grant IAM users fine-grained control to your Amazon S3 bucket or objects. You can use ACLs to selectively add (grant) certain permissions on individual objects. Amazon S3 bucket policies can be used to add or deny permissions across some or all of the objects within a single bucket. With Query string authentication, you have the ability to share Amazon S3 objects through URLs that are valid for a specified period of time. Reference:

<http://aws.amazon.com/s3/details/#security>

第 866 题(单选题)

Q866. A user is accessing an EC2 instance on the SSH port for IP 10.20.30.40. Which one is a secure way to configure that the instance can be accessed only from this IP?

- A. In the security group, open port 22 for IP 10.20.30.40
- B. In the security group, open port 22 for IP 10.20.30.40/32
- C. In the security group, open port 22 for IP 10.20.30.40/24
- D. In the security group, open port 22 for IP 10.20.30.40/0

正确答案 B

解析：

In AWS EC2, while configuring a security group, the user needs to specify the IP address in CIDR notation. The CIDR IP range 10.20.30.40/32 says it is for a single IP 10.20.30.40. If the user specifies the IP as 10.20.30.40 only, the security group will not accept and ask it in a CIRD format. Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-network-security.html>

第 867 题(单选题)

Q867. Which of the following statements is true of creating a launch configuration using an EC2 instance?

- A. The launch configuration can be created only using the Query APIs.
- B. Auto Scaling automatically creates a launch configuration directly from an EC2 instance.
- C. A user should manually create a launch configuration before creating an Auto Scaling group.
- D. The launch configuration should be created manually from the AWS CLI.

正确答案 B

解析：

You can create an Auto Scaling group directly from an EC2 instance. When you use this feature, Auto Scaling automatically creates a launch configuration for you as well. Reference:<http://docs.aws.amazon.com/AutoScaling/latest/DeveloperGuide/create-lc-with-instanceID.html>

第 868 题(单选题)

Q868. You need to set up a high level of security for an Amazon Relational Database Service (RDS) you have just built in order to protect the confidential information stored in it. What are all the possible security groups that RDS uses?

- A. DB security groups, VPC security groups, and EC2 security groups.
- B. DB security groups only.
- C. EC2 security groups only.
- D. VPC security groups, and EC2 security groups.

正确答案 A

解析：

A security group controls the access to a DB instance. It does so by allowing access to IP address ranges or Amazon EC2 instances that you specify. Amazon RDS uses DB security groups, VPC security groups, and EC2 security groups. In simple terms, a DB security group controls access to a DB instance that is not in a VPC, a VPC security group controls access to a DB instance inside a VPC, and an Amazon EC2 security group controls access to an EC2 instance and can be used with a DB instance . Reference:

<http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Welcome.html>

第 869 题(单选题)

Q869. You have been using T2 instances as your CPU requirements have not been that intensive. However you now start to think about larger instance types and start looking at M1 and M3 instances. You are a little confused as to the differences between them as they both seem to have the same ratio of CPU and memory. Which statement below is incorrect as to why you would use one over the other?

- A. M3 instances are less expensive than M1 instances.
- B. M3 instances are configured with more swap memory than M1 instances.
- C. M3 instances provide better, more consistent performance than M1 instances for most use-cases.
- D. M3 instances also offer SSD-based instance storage that delivers higher I/O performance.

正确答案 B

解析：

Amazon EC2 allows you to set up and configure everything about your instances from your operating system up to your applications. An Amazon Machine Image (AMI) is simply a packaged-up environment that includes all the necessary bits to set up and boot your instance. M1 and M3 Standard instances have the same ratio of CPU and memory, some reasons below as to why you would use one over the other. M3 instances provide better, more consistent performance than M1 instances for most use-cases. M3 instances also offer SSD-based instance storage that delivers higher I/O performance. M3 instances are also less expensive than M1 instances. Due to these reasons, we recommend M3 for applications that require general purpose instances with a balance of compute, memory, and network resources. However, if you need more disk storage than what is provided in M3 instances, you may still find M1 instances useful for running your applications.

Reference: <https://aws.amazon.com/ec2/faqs/>

第 870 题(单选题)

Q870. A customer is deploying a production portal application on AWS. The database tier has structured data. The company requires a solution that is easily manageable and highly available. How can these requirements be met?

- A. Deploy the database on multiple Amazon EC2 instances backed by Amazon EBS across multiple Availability Zones
- B. Use Amazon RDS with a multiple Availability Zone option
- C. Use RDS with a single Availability Zone option and schedule periodic database snapshots
- D. Use Amazon DynamoDB

正确答案 B

第 871 题(单选题)

Q871. A company is migrating an on-premises application to AWS. The application currently uses their corporate message broker, passing messages between layers by using the MQTT protocol. Because of time and budget constraints, the company cannot rewrite the application and cannot manage a new message broker on the EC2 instances. Which service should a Solutions Architect use to allow the customer to migrate the application to AWS?

- A. Amazon SNS
- B. Amazon SQS
- C. Amazon MQ
- D. Amazon SWF

正确答案 C

第 872 题(多选题)

Q872. A Solutions Architect is designing a disaster recovery (DR) environment in a separate AWS region from an application's primary workload. The application uses a multi-tier architecture, and only

the RDS instance will have frequent changes. The application installation process takes 60 minutes on average. The disaster recovery plan must have an RPO of less than 90 minutes and an RTO of less than 30 minutes. Which of the following would enable the Solutions Architect to meet these requirements? (Select TWO.)

- A. An Aurora instance as the primary database with a read replica in the DR region
- B. Inter-region VPC peering between the primary workload VPC and the DR VPC
- C. A cross-region Amazon EC2 Amazon Machine Image (AMI) copy
- D. Amazon S3 cross-region replication of application-tier installers
- E. Amazon CloudWatch Events in the primary region that trigger the failover to the DR region

正确答案 A, E

第 873 题(单选题)

Q873. Application servers currently deployed in a private subnet require the ability to integrate with a third-party service accessible through the Which changes are required to provide outbound Internet connectivity in the vPC without providing inbound Internet connectivity to the application servers?

- A. Create a naT Gateway without attaching an Internet Gateway to the VPC.
- B. Create a nat Gateway and attach an Internet gateway to the VPC.
- C. Attach an Internet Gateway to the vPC without creating a NAT Gateway.
- D. Attach a virtual Private gateway to the vpc and create a NAT gateway.

正确答案 B

第 874 题(单选题)

Q874. A Solutions Architect is designing a high-performance computing job that runs on Amazon EC2 instances in private subnets. To allow the application to download patches the infrastructure must be altered to allow the instances to access external endpoints. Any changes to the infrastructure must involve minimal ongoing systems management effort. What will allow the EC2 instances to access the endpoint while meeting these requirements?

- A. NAT gateway.
- B. Elastic IP address
- C. AWS Direct connect
- D. Virtual private gateway

正确答案 A

第 875 题(单选题)

Q875. A Solutions Architect is reviewing an application that writes data to an amazon dynamodb table on a daily basis. Random table reads occur many times per second. The company needs to allow thousands of low-latency reads and avoid any negative impact to the rest of the application. What should the Solutions Architect do to meets the company's goals?

- A. Use DynamoDB Accelerator to cache reads.
- B. Increase DynamoDB write capacity units.
- C. Add Amazon sQs to decouple requests.
- D. Implement Amazon Kinesis to decouple requests.

正确答案 A

第 876 题(单选题)

Q876. A company maintains an application on an on-premises server. The company wants to automatically redirect users to a static

maintenance page hosted on Amazon S3 when the application is unavailable. What is the MOST efficient method to ensure the users are automatically redirected?

- A. Use an Amazon Route 53 failover routing policy, and configure the application as primary and the amazon S3 static page as secondary.
- B. Use Amazon CloudWatch Events to trigger an AWS Lambda function that changes the DNS to point to the static page.
- C. Use an Amazon Route 53 weighted routing policy, and configure the application higher and the amazon S3 static page lower.
- D. Use Amazon Route 53 to set up multiple A records for both the application and Amazon S3.

正确答案 A

第 877 题(单选题)

Q877. A customer has a legacy application with a large amount of data. The files accessed by the application are approximately 10 GB each, but are rarely accessed. However, when files are accessed, they are retrieved sequentially. The customer is migrating the application to AWS and would like to use Amazon EC2 and Amazon EBS. What is the LEAST expensive EBS volume type for this use case?

- A. Cold HDD(sc1).
- B. Provisioned IOPS SSD(io1).
- C. General Purpose SSD(gp2).
- D. Throughput Optimized HDD(st1).

正确答案 A

第 878 题(单选题)

Q878. A Solutions Architect must create a solution whereby user access to multiple Amazon Aurora MySQL databases is securely managed with short-lived connection credentials. How can the Solutions Architect meet these requirements?

- A. Create a database user to run the GRANT statement with a short-lived token
- B. Create the user account to use the AWS-provided AWS Authentication Plugin with IAM
- C. Use Aws Systems Manager to securely save the connection secrets, and use the secrets while connecting
- D. Use AWs KMS to securely save the connection secrets, and use the secrets while connecting

正确答案 B

第 879 题(单选题)

Q879. A company is developing an application to deliver dynamic content to users around the globe. The content should be customized according to a user's device and be delivered with very low latency. Which service should be used?

- A. Amazon API Gateway.
- B. Amazon Cloud Front.
- C. Amazon S3.
- D. Lambda @Edge.

正确答案 D

第 880 题(单选题)

Q880. A company has an application running as a service in Amazon ECS using the Amazon EC2 launch type. The application code makes AWS API Calls to publish messages to Amazon SQS. What is the MOST secure method of giving the application permission to publish messages to Amazon SQS?

- A. Use AWS IAM to grant SQS permissions to the role used by the launch configuration for the Auto Scaling group of the ECS cluster.

- B. Create a new identity and access management (IAM) user with SQS permissions, and then update the task definition to declare the access key ID and secret access key as environment variables.
- C. Create a new identity and access management (IAM) role with SQS permissions, and then update the task definition to use this role for the task role setting.
- D. Update the security group used by the ECS cluster to allow access to Amazon SQS.

正确答案 C

第 881 题(单选题)

Q881. A company plans to use Amazon GuardDuty to detect unexpected and potentially malicious activity. The company wants to use Amazon CloudWatch to ensure that when findings occur, remediation takes place automatically. Which CloudWatch feature should be used to trigger an AWS Lambda function to perform the remediation?

- A. Events
- B. Dashboards
- C. Metrics
- D. Alarms

正确答案 A

第 882 题(单选题)

Q882. A company's Data Analysis team needs to perform real-time complex queries against a database. As the team grows, the complex queries are slowing down production transactions. The current environment has an Amazon RDS database with the largest instance type and is still experiencing performance issues. Which solution will reduce costs and resolve the performance issues?

- A. Implement an Amazon RDS Read Replica of the production database to be used by the Data Analysis team and reduce the RDS database instance size.

- B. Implement Amazon ElastiCache and run the query against ElastiCache directly.
- C. Implement Amazon EC2 instances to run a cluster of the production database and remove the RDS database instance.
- D. Implement a larger Amazon RDS database instance type and apply Reserved Instances by submitting a limit increase

正确答案 A

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