➢ Vendor: Amazon

➢ Exam Code: SAA-C02

➢ Exam Name: AWS Certified Solutions Architect - Associate

➢ New Questions (Jan/2022)

NEW QUESTION 880
A company has hundreds of Amazon EC2 Linux-based instances in the AWS Cloud. Systems administrators have used shared SSH keys to manage the instances. After a recent audit, the company's security team is mandating the removal of all shared keys. A solutions architect must design a solution that provides secure access to the EC2 instances. Which solution will meet this requirement with the LEAST amount of administrative overhead?

A. Use AWS Systems Manager Session Manager to connect to the EC2 instances.
B. Use AWS Security Token Service (AWS STS) to generate one-time SSH keys on demand.
C. Allow shared SSH access to a set of bastion instances.
Configure all other instances to allow only SSH access from the bastion instances.
D. Use an Amazon Cognito custom authorizer to authenticate users.
Invoke an AWS Lambda function to generate a temporary SSH key.

Answer: B

NEW QUESTION 881
A company has migrated a fleet of hundreds of on-premises virtual machines (VMs) to Amazon EC2 instances. The instances run a diverse fleet of Windows Server versions along with several Linux distributions. The company wants a solution that will automate inventory and updates of the operating systems. The company also needs a summary of common vulnerabilities of each instance for regular monthly reviews. What should a solutions architect recommend to meet these requirements?

A. Set upAWS Systems Manager Patch Manager to manage all the EC2 instances.
Configure AWS Security Hub to produce monthly reports.
B. Set up AWS Systems Manager Patch Manager to manage all the EC2 instances.
Deploy Amazon Inspector, and configure monthly reports.
C. Set up AWS Shield Advanced, and configure monthly reports.
Deploy AWS Config to automate patch installations on the EC2 instances.
D. Set up Amazon GuardDuty in the account to monitor all EC2 instances.
Deploy AWS Config to automate patch installations on the EC2 instances.

Answer: B

NEW QUESTION 882
A company hosts a three-tier ecommerce application on a fleet of Amazon EC2 instances. The instances run in an Auto Scaling group behind an Application Load Balancer (ALB). All ecommerce data is stored in an Amazon RDS for ManaDB Multi-AZ DB instance. The company wants to optimize customer session management during transactions. The application must store session data durably. Which solutions will meet these requirements? (Choose two.)

A. Turn on the sticky sessions feature (session affinity) on the ALB.
B. Use an Amazon DynamoOB table to store customer session information.
C. Deploy an Amazon Cognito user pool to manage user session information.
D. Deploy an Amazon ElastiCache for Redis cluster to store customer session information.
E. Use AWS Systems Manager Application Manager in the application to manage user session information.

Answer: AB

NEW QUESTION 883
A company hosts a web application on multiple Amazon EC2 instances. The EC2 instances are in an Auto Scaling group that scales in response to user demand. The company wants to optimize cost savings without making a long-term commitment. Which EC2 instance purchasing option should a solutions architect recommend to meet these requirements?

A. Dedicated Instances only.
B. On-Demand Instances only.
C. A mix of On-Demand instances and Spot Instances.
D. A mix of On-Demand instances and Reserved Instances.

Answer: A

NEW QUESTION 884
A company used an Amazon RDS for MySQL DB instance during application testing. Before terminating the DB instance at the end of the test cycle a solutions architect created two backups. The solutions architect created the first backup by using the mysqldump utility to create a database dump. The solutions architect created the second backup by enabling the final DB snapshot option on RDS termination. The company is now planning for a new test cycle and wants to create a new DB instance from the most recent backup. The company has chosen a MySQL-compatible edition of Amazon Aurora to host the DB instance. Which solutions will create the new DB instance? (Choose two.)

A. Import the RDS snapshot directly into Aurora.
B. Upload the RDS snapshot to Amazon S3 then import the RDS snapshot into Aurora.
C. Upload the database dump to Amazon S3 then import the database dump into Aurora.
D. Use AWS Database Migration Service (AWS DMS) to import the RDS snapshot into Aurora.
E. Upload the database dump to Amazon S3 then use AWS Database Migration Service (AWS DMS) to import the database dump into Aurora.

Answer: AC

NEW QUESTION 885
A medical company is designing a new application that gathers symptoms from patients. The company has decided to use Amazon Simple Queue Service (Amazon SQS) and Amazon Simple Notification Service (Amazon SNS) in the architecture. A solutions architect is reviewing the infrastructure design. Data must be encrypted while at rest and in transit. Only authorized personnel of the company can access the data. Which combination of steps should the solutions architect take to meet these requirements? (Choose two.)

A. Turn on server-side encryption on the SQS components.
Update the default key policy to restrict key usage to a set of authorized principals.
B. Turn on server-side encryption on the SNS components by using a custom CMK.
Apply a key policy to restrict key usage to a set of authorized principals.
C. Turn on encryption on the SNS components.
Update the default key policy to restrict key usage to a set of authorized principals.
Set a condition in the topic policy to allow only encrypted connections over TLS.
D. Turn on server-side encryption on the SQS components by using a custom CMK.
Apply a key policy to restrict key usage to a set of authonzed pnncipals.
Set a condition in the queue policy to allow only encrypted connections over TLS.
E. Turn on server-side encryption on the SQS components by using a custom CMK.
Apply an IAM policy to restrict key usage to a set of authorized principals.
Set a condition in the queue policy to allow only encrypted connections over TLS.

Answer: CD

NEW QUESTION 886
A company is building a disaster recovery (DR) solution. The company wants to rotate its primary systems between AWS Regions on a regular basis. The company's application is geographically distributed and includes a serverless web tier. The application's database tier runs on Amazon Aurora. A solutions architect needs to build an architecture tor the database layer to implement managed, planned failover. Which combination of actions will meet these requirements with the LEAST downtime? (Choose two.)

A. Create an Aurora DB cluster.
Configure Aurora Replicas.
B. Fail over to one of the secondary DB clusters from another Region.
C. Create an Aurora DB cluster snapshot.

Restore from the snapshot.
D. Configure an Aurora global database.
Set up a secondary DB cluster.
E. Promote one of the read replicas as a writer from the Amazon RDS console.

Answer: CD

NEW QUESTION 887
A company runs an application on several Amazon EC2 instances that store persistent data on an Amazon Elastic File System (Amazon EFS) file system. The company needs to replicate the data to another AWS Region by using an AWS managed service solution. Which solution will meet these requirements MOST cost-effectively?

A. Use the EFS-to-EFS backup solution to replicate the data to an EFS file system in another Region.
B. Run a nightly script to copy data from the EFS file system to an Amazon S3 bucket.
Enable S3 Cross-Region Replication on the S3 bucket.
C. Create a VPC in another Region Establish a cross-Region VPC peer.
Run a nightly rsync to copy data from the original Region to the new Region.
D. Use AWS Backup to create a backup plan with a rule that takes a daily backup and replicates it to another Region.
Assign the EFS file system resource to the backup plan.

Answer: D

NEW QUESTION 888
A doctor's office is moving all of its patient data to the AWS Cloud. The office needs to retain all the data indefinitely, but the data is rarely accessed after a year. The data must be immediately available during the first year. However, to minimize cost, the office is willing to wait a day for data that is more than 1 year old to become available. Which combination of actions should a solutions architect take to meet these requirements MOST cost-effectively? (Choose two.)

A. Create an Amazon S3 Lifecycle transition rule to move the data to S3 Glacier after a year.
B. Create an Amazon S3 Lifecycle transition rule to move the data to S3 Glacier Deep Archive after a year.
C. Create an Amazon S3 bucket for the data.
Store data in the S3 bucket by using the S3 Glacier storage class.
D. Create an Amazon S3 bucket for the data.
Store data in the bucket by using the S3 Standard storage class.
E. Create an Amazon S3 bucket for the data.
Store data in the bucket by using the S3 Intelligent-Tiering storage class.

Answer: AD

NEW QUESTION 889
A social media company wants to allow its users to upload images in an application that is hosted in the AWS Cloud. The company needs a solution that automatically resizes the images so that the images can be displayed on multiple device types. The application experiences unpredictable traffic patterns throughout the day. The company is seeking a highly available solution that maximizes scalability. What should a solutions architect do to meet these requirements?

A. Create a static website hosted in Amazon S3 that invokes AWS Lambda functions to resize the images and store the images in an Amazon S3 bucket.
B. Create a static website hosted in Amazon CloudFront that invokes AWS Step Functions to resize the images and store the images in an Amazon RDS database.
C. Create a dynamic website hosted on a web server that runs on an Amazon EC2 instance.
Configure a process that runs on the EC2 instance to resize the images and store the images in an Amazon S3 bucket.
D. Create a dynamic website hosted on an automatically scaling Amazon Elastic Container Service (Amazon ECS) cluster that creates a resize job in Amazon Simple Queue Service (Amazon SQS).
Set up an image-resizing program that runs on an Amazon EC2 instance to process the resize jobs.

Answer: A

NEW QUESTION 890
A company runs batch processes on Amazon EC2 instances that are needed only during business hours. These processes must preserve the data at alt times but the speed of processing is not important. The company needs to run these processes in the MOST cost-effective manner. Which solution will meet these requirements?

A. Use EC2 Reserved Instances with the All Upfront payment option.
B. Use EC2 Reserved instances with the Partial Upfront payment option.

C. Use Spot Fleet requests with the allocation strategy set to lowestPnce.
D. Use persistent Spot Instance requests with behaviour that stops interrupted instances.

Answer: B

NEW QUESTION 891
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? (Choose two.)

A. Enable AWS CloudTrail and use it for auditing.
B. Use data lifecycie 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.

Answer: AD

NEW QUESTION 892
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.

Answer: B

NEW QUESTION 893
A company is using Amazon CloudFront with lis website. The company has enabled logging on the CloudFront distribution, and togs are saved in one of the company's Amazon S3 buckets. The company needs to perform advanced analyses on the logs and build visualizations. What should a solutions architect do to meet these requirements?

A. Use standard SQL queries in Amazon Athena to analyze the CloudFront togs in the S3 bucket Vrsualize the results with AWS Glue.
B. Use standard SQL queries in Amazon Athena to analyze the CloudFront togs in the S3 bucket Visualize the results with Amazon QuickSight.
C. Use standard SQL queries in Amazon DynamoDB to analyze the CloudFront logs m the S3 bucket Visualize the results with AWS Glue.
D. Use standard SQL queries in Amazon DynamoOB to analyze the CtoudFront logs m the S3 bucket Visualize the results with Amazon QuickSight.

Answer: B

NEW QUESTION 894
A company is planning to migrate to AWS. The network layout will include more than 1.000 VPCs in a single AWS Region. The resources in the VPCs need to communicate with each other. What should a solutions architect recommend to meet these requirements?

A. Create VPN tunnels from all the VPCs to each other.
Enable route propagation.
B. Create an AWS Direct Connect gateway and attach a public virtual interface (VIF) to each VPC.
Enable route propagation.
C. Peer all the VPCs together by creating and accepting peering requests.
Update route tables with the new routes.
D. Create a transit gateway and place attachments in subnets of all the VPCs.
Configure a transit gateway route table with the new routes.

Answer: A

NEW QUESTION 895
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? (Choose 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 LambdaQEdge 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.

Answer: BD

NEW QUESTION 896
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 m 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 m 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.

Answer: A

NEW QUESTION 897
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 applications 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.

Answer: A

NEW QUESTION 898
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 tor the web servers lo 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 lo 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 0.0.0.0.0.
Configure the security group for the DB instance to allow inbound traffic on port 3306 from 0.0.0.0/0.

Answer: A

NEW QUESTION 899
A company is using AWS Organizations with two AWS accounts Logistics and Sales. The Logistics account operates an Amazon Redshift cluster. The Sates 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 Sates 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 m the Sales account.
C. Create a snapshot of the Amazon Redshift duster 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.

Answer: A

NEW QUESTION 900
A company is planning to store data on Amazon RDS DB instances. The company must encrypt the data at rest. What should a solutions architect do to meet this requirement?

A. Create an encryption key and store the key in AWS Secrets Manager.
Use the key to encrypt the DB instances.
B. Generate a certificate in AWS Certificate Manager (ACM).
Enable SSL/TLS on the DB instances by using the certificate.
C. Create a customer master key (CMK) in AWS Key Management Service (AWS KMS).
Enable encryption for the DB instances.
D. Generate a certificate in AWS Identity and Access Management (IAM).
Enable SSUTLS on the DB instances by using the certificate.

Answer: C

NEW QUESTION 901
A company runs its production workload on an Amazon Aurora MySQL DB cluster that includes six Aurora Replicas. The company wants near-real-time reporting queries from one of its departments to be automatically distributed across three of the Aurora Replicas. Those three replicas have a different compute and memory specification from the rest of the DB cluster. Which solution meets these requirements?

A. Create and use a custom endpoint for the workload.
B. Create a three-node cluster clone and use the reader endpoint.
C. Use any of the instance endpoints for the selected three nodes.
D. Use the reader endpoint to automatically distribute the read-only workload.

Answer: A

NEW QUESTION 902
A mobile gaming company runs application servers on Amazon EC2 instances. The servers receive updates from players every 15 minutes. The mobile game creates a JSON object of the progress made in the game since the last update and sends the JSON object to an Application Load Balancer. As the mobile game is played game updates are being lost. The company wants to create a durable way to get the updates in order. What should a solutions architect recommend to decouple the system?

A. Use Amazon Kinesis Data Streams to capture the data and store the JSON object in Amazon S3.

B. Use Amazon Kinesis Data Firehose to capture the data and store the JSON object in Amazon S3.
C. Use Amazon Simple Queue Service (Amazon SQS) FIFO queues to capture the data and EC2 instances to process the messages in the queue.
D. Use Amazon Simple Notification Service (Amazon SNS) to capture the data and EC2 instances to process the messages sent to the Application Load Balancer.

Answer: C

NEW QUESTION 903
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.

Answer: C

NEW QUESTION 904
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