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➢ **Vendor: Amazon**

➢ **Exam Code: SAA-C02**

➢ **Exam Name:** AWS Certified Solutions Architect - Associate (SAA-C02) Exam

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QUESTION 230
A company recently deployed a new auditing system to centralize information about operating system versions, patching, and installed software for Amazon EC2 instances.
A solutions architect must ensure all instances provisioned through EC2 Auto Scaling groups successfully send reports to the auditing system as soon as they are launched and terminated.
Which solution achieves these goals MOST efficiently?

A. Use a scheduled AWS Lambda function and execute a script remotely on all EC2 instances to send data to the audit system.
B. Use EC2 Auto Scaling lifecycle hooks to execute a custom script to send data to the audit system when instances are launched and terminated.
C. Use an EC2 Auto Scaling launch configuration to execute a custom script through user data to send data to the audit system when instances are launched and terminated.
D. Execute a custom script on the instance operating system to send data to the audit system. Configure the script to be executed by the EC2 Auto Scaling group when the instance starts and is terminated.

Answer: B

QUESTION 231
A company requires a durable backup storage solution for its on-premises database servers while ensuring on-premises applications maintain access to these backups for quick recovery.
The company will use AWS storage services as the destination for these backups.
A solutions architect is designing a solution with minimal operational overhead.
Which solution should the solutions architect implement?

A. Deploy an AWS Storage Gateway file gateway on-premises and associate it with an Amazon S3 bucket
B. Back up the databases to an AWS Storage Gateway volume gateway and access it using the Amazon S3 API.
C. Transfer the database backup files to an Amazon Elastic Block Store (Amazon EBS) volume attached to an Amazon EC2 instance.
D. Back up the database directly to an AWS Snowball device and uss lifecycle rules to move the data to Amazon S3 Glacier Deep Archive.

Answer: A

QUESTION 232
A company has a web server running on an Amazon EC2 instance in a public subnet with an Elastic IP address.
The default security group is assigned to the EC2 instance.

The default network ACL has been modified to block all traffic.
A solutions architect needs to make the web server accessible from everywhere on port 443.
Which combination of steps will accomplish this task? (Select TWO.)

A. Create a security group with a rule to allow TCP port 443 from source 0.0.0.0/0.
B. Create a security group with a rule to allow TCP port 443 to destination 0 0 0 0/0.
C. Update the network ACL to allow TCP port 443 from source 0.0 0 0/0.
D. Update the network ACL to allow inbound/outbound TCP port 443 from source 0.0.0.0/0 and to destination 0.0.0.0/0.
E. Update the network ACL to allow inbound TCP port 443 from source 0.0.0 0/0 and outbound TCP port 32768-65535 to destination 0 0 0.0/0

Answer: AE

QUESTION 233
A company hosts its website on AWS. To address the highly variable demand, the company has implemented Amazon EC2 Auto Scaling.
Management is concerned that the company is over- provisioning its infrastructure, especially at the front end of the three-tier application.
A solutions architect needs to ensure costs are optimized without impacting performance.
What should the solutions architect do to accomplish this?

A. Use Auto Scaling with Reserved Instances.
B. Use Auto Scaling with a scheduled scaling policy.
C. Use Auto Scaling with the suspend-resume feature
D. Use Auto Scaling with a target tracking scaling policy.

Answer: C

QUESTION 234
A company is concerned that two NAT instances in use will no longer be able to support the traffic needed for the company's application.
A solutions architect wants to implement a solution that is highly available fault tolerant, and automatically scalable.
What should the solutions architect recommend?

A. Remove the two NAT instances and replace them with two NAT gateways in the same Availability Zone.
B. Use Auto Scaling groups with Network Load Balancers for the NAT instances in different Availability Zones.
C. Remove the two NAT instances and replace them with two NAT gateways in different Availability Zones.
D. Replace the two NAT instances with Spot Instances in different Availability Zones and deploy a Network Load Balancer.

Answer: A

QUESTION 235
A solutions architect is working on optimizing a legacy document management application running on Microsoft Windows Server in an on-premises data center.
The application stores a large number of files on a network file share.
The chief information officer wants to reduce the on-premises data center footprint and minimize storage costs by moving on-premises storage to AWS.
What should the solutions architect do to meet these requirements?

A. Set up an AWS Storage Gateway file gateway.
B. Set up Amazon Elastic File System (Amazon EFS)

C. Set up AWS Storage Gateway as a volume gateway
D. Set up an Amazon Elastic Block Store (Amazon EBS) volume.

Answer: A

QUESTION 236
A company is processing data on a daily basis.
The results of the operations are stored in an Amazon S3 bucket, analyzed daily for one week, and then must remain immediately accessible for occasional analysis
What is the MOST cost-effective storage solution alternative to the current configuration?

A. Configure a lifecycle policy to delete the objects after 30 days
B. Configure a lifecycle policy to transition the objects to Amazon S3 Glacier after 30 days.
C. Configure a lifecycle policy to transition the objects to Amazon S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days
D. Configure a lifecycle policy to transition the objects to Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.

Answer: A

QUESTION 237
A recent analysis of a company's IT expenses highlights the need to reduce backup costs.
The company's chief information officer wants to simplify the on-premises backup infrastructure and reduce costs by eliminating the use of physical backup tapes.
The company must preserve the existing investment in the on-premises backup applications and workflows.
What should a solutions architect recommend?

A. Set up AWS Storage Gateway to connect with the backup applications using the NFS interface.
B. Set up an Amazon EFS file system that connects with the backup applications using the NFS interface
C. Set up an Amazon EFS file system that connects with the backup applications using the iSCSI interface
D. Set up AWS Storage Gateway to connect with the backup applications using the iSCSI-virtual tape library (VTL) interface.

Answer: A

QUESTION 238
A company wants to replicate its data to AWS to recover in the event of a disaster.
Today, a system administrator has scripts that copy data to a NFS share Individual backup files need to be accessed with low latency by application administrators to deal with errors in processing.
What should a solutions architect recommend to meet these requirements?

A. Modify the script to copy data to an Amazon S3 bucket instead of the on-premises NFS share
B. Modify the script to copy data to an Amazon S3 Glacier Archive instead of the on-premises NFS share
C. Modify the script to copy data to an Amazon Elastic File System (Amazon EFS) volume instead of the on-premises NFS share.
D. Modify the script to copy data to an AWS Storage Gateway for File Gateway virtual appliance instead of the on-premises NFS share.

Answer: D

QUESTION 239
A solutions architect is designing the storage architecture for a new web application used for stonng and viewing engineering drawings.

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All application components will be deployed on the AWS infrastructure.
The application design must support caching to minimize the amount of time that users wait for the engineering drawings to load.
The application must be able to store petabytes of data.
Which combination of storage and caching should the solutions architect use?

A. Amazon S3 with Amazon CloudFront
B. Amazon S3 Glacier with Amazon ElastiCache
C. Amazon Elastic Block Store (Amazon EBS) volumes with Amazon CloudFront
D. AWS Storage Gateway with Amazon ElastiCache

Answer: B

QUESTION 240
A company that develops web applications has launched hundreds of Application Load Balancers (ALBs) in multiple Regions.
The company wants to create an allow list (or the IPs of all the load balancers on its firewall device.
A solutions architect is looking for a one-time, highly available solution to address this request, which will also help reduce the number of IPs that need to be allowed by the firewall.
What should the solutions architect recommend to meet these requirements?

A. Create a AWS Lambda function to keep track of the IPs for all the ALBs in different Regions Keep refreshing this list.
B. Set up a Network Load Balancer (NLB) with Elastic IPs.
   Register the private IPs of all the ALBs as targets to this NLB.
C. Launch AWS Global Accelerator and create endpoints for all the Regions.
   Register all the ALBs in different Regions to the corresponding endpoints
D. Set up an Amazon EC2 instance, assign an Elastic IP to this EC2 instance, and configure the instance as a proxy to forward traffic to all the ALBs.

Answer: C