



SAA-C01^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C01)





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QUESTION 1

An organization runs an online media site, hosted on-premises. An employee posted a product review that contained videos and pictures. The review went viral and the organization needs to handle the resulting spike in website traffic. What action would provide an immediate solution?

- A. Redesign the website to use Amazon API Gateway, and use AWS Lambda to deliver content.
- B. Add server instances using Amazon EC2 and use Amazon Route 53 with a failover routing policy.
- C. Serve the images and videos via an Amazon CloudFront distribution created using the news site as the origin.
- D. Use Amazon ElasticCache for Redis for caching and reducing the load requests from the origin.

Correct Answer: C

QUESTION 2

An AWS customer is deploying an application that is composed of an AutoScaling group of EC2 Instances.

The customer's security policy requires that every outbound connection from these instances to any other service within the customer's Virtual Private Cloud must be authenticated using a unique x.509 certificate that contains the specific

instance-id.

In addition, an x.509 certificate must be designed by the customer's Key Management Service in order to be trusted for authentication.

Which of the following configurations will support these requirements?

- A. Configure an IAM Role that grants access to an Amazon S3 object containing a signed certificate and configure the Auto Scaling group to launch instances with this role. Have the instances bootstrap get the certificate from Amazon S3 upon first boot.
- B. Embed a certificate into the Amazon Machine Image that is used by the Auto Scaling group. Have the launched instances generate a certificate signature request with the instance's assigned instance-id to the Key Management Service for signature.
- C. Configure the Auto Scaling group to send an SNS notification of the launch of a new instance to the trusted Key Management Service. Have the Key Management Service generate a signed certificate and send it directly to the newly launched instance.
- D. Configure the launched instances to generate a new certificate upon first boot. Have the Key Management Service poll the Auto Scaling group for associated instances and send new instances a certificate signature (that contains the specific instance-id).

Correct Answer: A

<http://jayendrapatil.com/tag/iam/>



QUESTION 3

A web design company currently runs several FTP servers that their 250 customers use to upload and download large graphic files. They wish to move this system to AWS to make it more scalable, but they wish to maintain customer privacy

and Keep costs to a minimum.

What AWS architecture would you recommend?

- A. ASK their customers to use an S3 client instead of an FTP client. Create a single S3 bucket Create an IAM user for each customer Put the IAM Users in a Group that has an IAM policy that permits access to sub-directories within the bucket via use of the `\"username\"` Policy variable.
- B. Create a single S3 bucket with Reduced Redundancy Storage turned on and ask their customers to use an S3 client instead of an FTP client Create a bucket for each customer with a Bucket Policy that permits access only to that one customer.
- C. Create an auto-scaling group of FTP servers with a scaling policy to automatically scale-in when minimum network traffic on the auto-scaling group is below a given threshold. Load a central list of ftp users from S3 as part of the user Data startup script on each Instance.
- D. Create a single S3 bucket with Requester Pays turned on and ask their customers to use an S3 client instead of an FTP client Create a bucket for each customer with a Bucket Policy that permits access only to that one customer.

Correct Answer: A

In question we have keywords `scalable` and company wants to `move systems` to AWS, which is best suited for Auto-scaling group. <https://aws.amazon.com/blogs/security/writing-iam-policies-grant-access-to-user-specific-folders-in-an-amazon-s3-bucket/>

QUESTION 4

A Solutions Architect is designing the architecture for a web application that will be hosted on AWS. Internet users will access the application using HTTP and HTTPS.

How should the Architect design the traffic control requirements?

- A. Use a network ACL to allow outbound ports for HTTP and HTTPS. Deny other traffic for inbound and outbound.
- B. Use a network ACL to allow inbound ports for HTTP and HTTPS. Deny other traffic for inbound and outbound.
- C. Allow inbound ports for HTTP and HTTPS in the security group used by the web servers.
- D. Allow outbound ports for HTTP and HTTPS in the security group used by the web servers.

Correct Answer: C

Unlike a traditional web hosting model, inbound network traffic filtering should not be confined to the edge; it should also be applied at the host level. Amazon EC2 provides a feature named security groups. A security group is analogous to an inbound network firewall, for which you can specify the protocols, ports, and source IP ranges that are allowed to reach your EC2 instances. You can assign one or more security groups to each EC2 instance. Each security group routes the appropriate traffic to each instance. Security groups can be configured so that only specific subnets or IP addresses have access to an EC2 instance. Or they can reference other security groups to limit access to EC2 instances that are in specific groups.



Reference: <https://d1.awsstatic.com/whitepapers/aws-web-hosting-best-practices.pdf>

QUESTION 5

An application that runs on an Amazon EC2 instance must make secure calls to Amazon S3 buckets. Which steps can a Solutions Architect take to ensure that the calls are made without exposing credentials?

- A. Generate an access key ID and a secret key, and assign an IAM role with least privilege.
- B. Create an IAM policy granting access to all services and assign it to the Amazon EC2 instance profile.
- C. Create an IAM role granting least privilege and assign it to the Amazon EC2 instance profile.
- D. Generate temporary access keys to grant users temporary access to the Amazon EC2 instance.

Correct Answer: C

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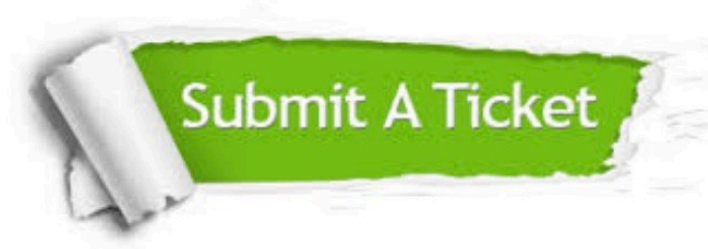
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