



# SAP-C01<sup>Q&As</sup>

AWS Certified Solutions Architect - Professional (SAP-C01)

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### QUESTION 1

In the context of AWS IAM, identify a true statement about user passwords (login profiles).

- A. They must contain Unicode characters.
- B. They can contain any Basic Latin (ASCII) characters.
- C. They must begin and end with a forward slash (/).
- D. They cannot contain Basic Latin (ASCII) characters.

Correct Answer: B

The user passwords (login profiles) of IAM users can contain any Basic Latin (ASCII) characters.

Reference: <http://docs.aws.amazon.com/IAM/latest/UserGuide/LimitationsOnEntities.html>

### QUESTION 2

A company is designing a new highly available web application on AWS. The application requires consistent and reliable connectivity from the application servers in AWS to a backend REST API hosted in the company's on-premises environment. The backend connection between AWS and on-premises will be routed over an AWS Direct Connect connection through a private virtual interface. Amazon Route 53 will be used to manage private DNS records for the application to resolve the IP address on the backend REST API.

Which design would provide a reliable connection to the backend API?

- A. Implement at least two backend endpoints for the backend REST API, and use Route 53 health checks to monitor the availability of each backend endpoint and perform DNS-level failover.
- B. Install a second Direct Connect connection from a different network carrier and attach it to the same virtual private gateway as the first Direct Connect connection.
- C. Install a second cross connect for the same Direct Connect connection from the same network carrier, and join both connections to the same link aggregation group (LAG) on the same private virtual interface.
- D. Create an IPSec VPN connection routed over the public internet from the on-premises data center to AWS and attach it to the same virtual private gateway as the Direct Connect connection.

Correct Answer: B

### QUESTION 3

Your company hosts a social media website for storing and sharing documents. The web application allows user to upload large files while resuming and pausing the upload as needed. Currently, files are uploaded to your PHP front end backed by Elastic Load Balancing and an autoscaling fleet of Amazon Elastic Compute Cloud (EC2) instances that scale upon average of bytes received (NetworkIn). After a file has been uploaded, it is copied to Amazon Simple Storage Service (S3). Amazon EC2 instances use an AWS Identity and Access Management (IAM) role that allows Amazon S3 uploads. Over the last six months, your user base and scale have increased significantly, forcing you to increase the Auto Scaling group's Max parameter a few times. Your CFO is concerned about rising costs and has

asked you to adjust the architecture where needed to better optimize costs.

Which architecture change could you introduce to reduce costs and still keep your web application secure and scalable?

- A. Replace the Auto Scaling launch configuration to include c3.8xlarge instances; those instances can potentially yield a network throughput of 10gbps.
- B. Re-architect your ingest pattern, have the app authenticate against your identity provider, and use your identity provider as a broker fetching temporary AWS credentials from AWS Secure Token Service (GetFederationToken). Securely pass the credentials and S3 endpoint/prefix to your app. Implement client-side logic to directly upload the file to Amazon S3 using the given credentials and S3 prefix.
- C. Re-architect your ingest pattern, and move your web application instances into a VPC public subnet. Attach a public IP address for each EC2 instance (using the Auto Scaling launch configuration settings). Use Amazon Route 53 Round Robin records set and HTTP health check to DNS load balance the app requests; this approach will significantly reduce the cost by bypassing Elastic Load Balancing.
- D. Re-architect your ingest pattern, have the app authenticate against your identity provider, and use your identity provider as a broker fetching temporary AWS credentials from AWS Secure Token Service (GetFederationToken). Securely pass the credentials and S3 endpoint/prefix to your app. Implement client-side logic that used the S3 multipart upload API to directly upload the file to Amazon S3 using the given credentials and S3 prefix.

Correct Answer: C

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#### QUESTION 4

A company is running a .NET three-tier web application on AWS. The team currently uses XL storage optimized instances to store and serve the website's image and video files on local instance storage. The company has encountered issues with data loss from replication and instance failures. The Solutions Architect has been asked to redesign this application to improve its reliability while keeping costs low.

Which solution will meet these requirements?

- A. Set up a new Amazon EFS share, move all image and video files to this share, and then attach this new drive as a mount point to all existing servers. Create an Elastic Load Balancer with Auto Scaling general purpose instances. Enable Amazon CloudFront to the Elastic Load Balancer. Enable Cost Explorer and use AWS Trusted Advisor checks to continue monitoring the environment for future savings.
- B. Implement Auto Scaling with general purpose instance types and an Elastic Load Balancer. Enable an Amazon CloudFront distribution to Amazon S3 and move images and video files to Amazon S3. Reserve general purpose instances to meet base performance requirements. Use Cost Explorer and AWS Trusted Advisor checks to continue monitoring the environment for future savings.
- C. Move the entire website to Amazon S3 using the S3 website hosting feature. Remove all the web servers and have Amazon S3 communicate directly with the application servers in Amazon VPC.
- D. Use AWS Elastic Beanstalk to deploy the .NET application. Move all images and video files to Amazon EFS. Create an Amazon CloudFront distribution that points to the EFS share. Reserve the m4.4xl instances needed to meet base performance requirements.

Correct Answer: B



### QUESTION 5

A user is creating a snapshot of an EBS volume. Which of the below statements is incorrect in relation to the creation of an EBS snapshot?

- A. Its incremental
- B. It is a point in time backup of the EBS volume
- C. It can be used to create an AMI
- D. It is stored in the same AZ as the volume

Correct Answer: D

The EBS snapshots are a point in time backup of the EBS volume. It is an incremental snapshot, but is always specific to the region and never specific to a single AZ. Hence the statement "It is stored in the same AZ as the volume" is incorrect.

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

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