

SAA-C01^{Q&As}

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QUESTION 1

A company plans to use AWS for all new batch processing workloads. The company\\'s developers use Docker containers for the new batch processing. The system design must accommodate critical and non-critical batch processing workloads 24/7.

How should a Solutions Architect design this architecture in a cost-efficient manner?

- A. Purchase Reserved Instances to run all containers. Use Auto Scaling groups to schedule jobs.
- B. Host a container management service on Spot Instances. Use Reserved Instances to run Docker containers.
- C. Use Amazon ECS orchestration and Auto Scaling groups: one with Reserve Instances, one with Spot Instances.
- D. Use Amazon ECS to manage container orchestration. Purchase Reserved Instances to run all batch workloads at the same time.

Correct Answer: C

QUESTION 2

You are designing Internet connectivity for your VPC. The Web servers must be available on the Internet. The application must have a highly available architecture. Which alternatives should you consider? (Choose two.)

- A. Configure a NAT instance in your VPC. Create a default route via the NAT instance and associate it with all subnets. Configure a DNS A record that points to the NAT instance public IP address.
- B. Configure a CloudFront distribution and configure the origin to point to the private IP addresses of your Web servers. Configure a Route53 CNAME record to your CloudFront distribution.
- C. Place all your web servers behind EL8. Configure a Route53 CNMIE to point to the ELB DNS name.
- D. Assign EIPs to all web servers. Configure a Route53 record set with all EIPs with health checks and DNS failover.
- E. Configure ELB with an EIP. Place all your Web servers behind ELB. Configure a Route53 A record that points to the EIP.

Correct Answer: CD

QUESTION 3

A Solutions Architect is asked to improve the fault tolerance of an existing Python application. The web application places 1-MB images is an S3 bucket. The application then uses a single t2.large instance to transform the image to include a watermark with the company\\'s brand before writing the image back to the S3 bucket.

What should the Solutions Architect recommend to increase the fault tolerance of the solution?

- A. Convert the code to a Lambda function triggered by scheduled Amazon CloudWatch Events.
- B. Increase the instance size to m4.xlarge and configure Enhanced Networking.

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- C. Convert the code to a Lambda function triggered by Amazon S3 events.
- D. Create an Amazon SQS queue to send the images to the t2.large instance.

Correct Answer: C

QUESTION 4

A Solution Architect is creating a serverless web application that must access mapping data in hundreds of data files, each containing approximately 30 KB of data. The storage required is expected to grow to hundreds of terabytes. Which storage solution is most cost-effective, yet still meets the requirements for this use case?

- A. Amazon EFS
- B. Amazon EBS Cold HDD (sc1)
- C. Amazon S3 Standard
- D. Amazon DynamoDB

Correct Answer: D

Reference https://medium.freecodecamp.org/how-to-create-a-serverless-service-in-15-minutes-b63af8c892e5

QUESTION 5

A company creates business-critical 3D images every night. The images are batch-processed every Friday and require an uninterrupted 48 hours to complete. What is the MOST cost-effective Amazon EC2 pricing model for this scenario?

- A. On-Demand Instances
- B. Scheduled Reserved Instances
- C. Reserved Instances
- D. Spot Instances

Correct Answer: B

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