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# Question 1

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**Question Type:** MultipleChoice

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A SysOps Administrator runs a web application that is using a microservices approach whereby different responsibilities of the application have been divided in a separate microservice running on a different Amazon EC2 instance. The administrator has been tasked with reconfiguring the infrastructure to support this approach.

How can the administrator accomplish this with the LEAST administrative overhead?

## Options:

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- A- Use Amazon CloudFront to log the URL and forward the request.
- B- Use Amazon CloudFront to rewrite the header based on the microservice and forward the request.
- C- Use an Application Load Balancer (ALB) and do path-based routing.
- D- Use a Network Load Balancer (NLB) and do path-based routing.

## Answer:

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C

## Explanation:

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## Question 2

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### Question Type: MultipleChoice

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A SysOps administrator is deploying an application on 10 Amazon EC2 instances. The application must be highly available. The instances must be placed on distinct underlying hardware.

What should the SysOps administrator do to meet these requirements?

### Options:

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- A-** Launch the instances into a cluster placement group in a single AWS Region.
- B-** Launch the instances into a partition placement group in multiple AWS Regions.
- C-** Launch the instances into a spread placement group in multiple AWS Regions.
- D-** Launch the instances into a spread placement group in single AWS Region

### Answer:

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D

### Explanation:

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<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

## Question 3

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### Question Type: MultipleChoice

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A SysOps administrator needs to design a high-traffic static website. The website must be highly available and must provide the lowest possible latency to users across the globe.

Which solution will meet these requirements?

### Options:

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**A-** Create an Amazon S3 bucket, and upload the website content to the S3 bucket. Create an Amazon CloudFront distribution in each AWS Region, and set the S3 bucket as the origin. Use Amazon Route 53 to create a DNS record that uses a geolocation routing policy to route traffic to the correct CloudFront distribution based on where the request originates.

**B-** Create an Amazon S3 bucket, and upload the website content to the S3 bucket. Create an Amazon CloudFront distribution, and set

the S3 bucket as the origin. Use Amazon Route 53 to create an alias record that points to the CloudFront distribution.

**C-** Create an Application Load Balancer (ALB) and a target group. Create an Amazon EC2 Auto Scaling group with at least two EC2 instances in the associated target group. Store the website content on the EC2 instances. Use Amazon Route 53 to create an alias record that points to the ALB.

**D-** Create an Application Load Balancer (ALB) and a target group in two Regions. Create an Amazon EC2 Auto Scaling group in each Region with at least two EC2 instances in each target group. Store the website content on the EC2 instances. Use Amazon Route 53 to create a DNS record that uses a geolocation routing policy to route traffic to the correct ALB based on where the request originates.

**Answer:**

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B

## Question 4

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**Question Type:** MultipleChoice

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A company needs to create a daily Amazon Machine Image (AMI) of an existing Amazon Linux EC2 instance that hosts the operating system, application, and database on multiple attached Amazon Elastic Block Store (Amazon EBS) volumes. File system integrity must be maintained.

Which solution will meet these requirements?

## Options:

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- A-** Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the no-reboot parameter enabled. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- B-** Create an AWS Lambda function to call the CreateImage API operation with the EC2 instance ID and the reboot parameter enabled. Create a daily scheduled Amazon EventBridge (Amazon CloudWatch Events) rule that invokes the function.
- C-** Use AWS Backup to create a backup plan with a backup rule that runs daily. Assign the resource ID of the EC2 instance with the no-reboot parameter enabled.
- D-** Use AWS Backup to create a backup plan with a backup rule that runs daily. Assign the resource ID of the EC2 instance with the reboot parameter enabled.

## Answer:

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B

## Explanation:

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[https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating\\_EBSbacked\\_WinAMI.html](https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/Creating_EBSbacked_WinAMI.html)

'NoReboot By default, Amazon EC2 attempts to shut down and reboot the instance before creating the image. If the No Reboot option is set, Amazon EC2 doesn't shut down the instance before creating the image. When this option is used, file system integrity on the created image can't be guaranteed.' Besides, we can use AWS EventBridge to invoke Lambda function

[https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API\\_CreateImage.html](https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_CreateImage.html)

## Question 5

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**Question Type:** MultipleChoice

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A new website will run on Amazon EC2 instances behind an Application Load Balancer. Amazon Route 53 will be used to manage DNS records.

What type of record should be set in Route 53 to point the website's apex domain name (for example.company.com) to the Application Load Balancer?

**Options:**

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- A- CNAME
- B- SOA
- C- TXT
- D- ALIAS

**Answer:**

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D

## Question 6

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### Question Type: MultipleChoice

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A company is migrating its production file server to AWS. All data that is stored on the file server must remain accessible if an Availability Zone becomes unavailable or when system maintenance is performed. Users must be able to interact with the file server through the SMB protocol. Users also must have the ability to manage file permissions by using Windows ACLs.

Which solution will net these requirements?

### Options:

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- A-** Create a single AWS Storage Gateway file gateway.
- B-** Create an Amazon FSx for Windows File Server Multi-AZ file system.
- C-** Deploy two AWS Storage Gateway file gateways across two Availability Zones. Configure an Application Load Balancer in front of the file gateways.
- D-** Deploy two Amazon FSx for Windows File Server Single-AZ 2 file systems. Configure Microsoft Distributed File System Replication (DFSR).

### Answer:

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B



## **Explanation:**

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<https://aws.amazon.com/fsx/windows/>

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