

1. What is caching?

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| <input type="checkbox"/> An in-memory database | <input type="checkbox"/> A high-speed data storage layer |
| <input type="checkbox"/> A global network for content distribution | <input type="checkbox"/> A way to store passwords |

2. Which types of data should you cache?

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| <input type="checkbox"/> Specialised data that is needed by a subnet of users | <input type="checkbox"/> Data that can be retrieved quickly with simple queries |
| <input type="checkbox"/> Static data that is frequently accessed | <input type="checkbox"/> Dynamic generated web content |

3. What is a benefit of caching?

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| <input type="checkbox"/> Load balancing the application | <input type="checkbox"/> Reduced response latency |
| <input type="checkbox"/> Increase application reliability | <input type="checkbox"/> Decreased costs |

4. What does Amazon CloudFront enable?

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| <input type="checkbox"/> Bidirectional caching between users and an origin host | <input type="checkbox"/> Transactional processing with an in-memory database |
| <input type="checkbox"/> Automatic creation of a time-to-live value | <input type="checkbox"/> Multi-tiered and regional caching of content |

5. How does Amazon CloudFront use edge locations?

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| <input type="checkbox"/> It caches local content at edge location. it deliver the cached content to clients through the edge location that requires the fewest network hops to reach those clients. | <input type="checkbox"/> It caches all content from an origin distribution at the edge location, and delivers the content to clients through the fast edge location. |
| <input type="checkbox"/> It caches Regional data at Regional edge locations, and delivers the content to clients through their Regional edge locations. | <input type="checkbox"/> It caches frequently accessed content at edge locations. It delivers the cached content to clients through the edge location with the lowest latency to those clients. |

6. Where is the application session data cached when using sticky sessions?

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| <input type="checkbox"/> Elastic Load Balancing load balancer | <input type="checkbox"/> Web browser |
| <input type="checkbox"/> Web server | <input type="checkbox"/> Amazon CloudFront |

7. Which statement best describes an efficient way to deliver on-demand steaming content by using Amazon CloudFront?

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| <input type="checkbox"/> A best practice is to create video segments and store them in an Amazon S3 bucket. Then, use CloudFront to cache the segments. | <input type="checkbox"/> A best practice is to create distributions for each Region where you serve streaming content. |
| <input type="checkbox"/> CloudFront does not work with steaming content. | <input type="checkbox"/> A best practice is to create separate origin server for each Region where you serve streaming content. |

8. What is Amazon DynamoDB Accelerator (DAX)?

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| <input type="checkbox"/> A feature of DynamoDB that automatically adjusts read/write capacity to handle load | <input type="checkbox"/> A feature of DynamoDB that enables fast lookup of items by using secondary keys |
| <input type="checkbox"/> A fully managed, highly available, in-memory cache for DynamoDB | <input type="checkbox"/> A fully managed, highly available cache that is backed by DynamoDB |

9. How can an application use Amazon ElastiCache to improve database read performance? (Select TWO.)

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| <input type="checkbox"/> Read data from the database first and write the most frequently read data to ElastiCache. | <input type="checkbox"/> Replicate the database in ElastiCache, and direct all reads to ElastiCache and all writes to the database. |
| <input type="checkbox"/> Write data to ElastiCache whenever the application writes to the database. | <input type="checkbox"/> Read data from ElastiCache first and write to ElastiCache when a cache miss occurs. |

10. Which role does Amazon CloudFront play in protecting against distributed denial of service (DDOS) attacks?

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|---|--|
| <input type="checkbox"/> Performs deep packet inspection to detect attacks | <input type="checkbox"/> Route traffic through edge locations |
| <input type="checkbox"/> Control traffic by the source IP addresses of requests | <input type="checkbox"/> Restricts traffic by geography to help block attacks that originate from specific countries |

