

PRACTICE QUESTIONS

Microsoft

AZ-305

Designing Microsoft Azure Infrastructure Solutions

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EDITION	Free Set 2
QUESTIONS	10
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10 practice questions for the Microsoft AZ-305 exam, Designing Microsoft Azure Infrastructure Solutions, each followed by its answer and a short explanation. More free sets and the full practice exam: www.aiexamcerts.com/microsoft/az-305. Spotted a mistake? Email support@aiexamcerts.com with the exam code AZ-305 and the question number.

1. A global app needs reads that never lag more than a configured time or number of versions behind writes, with lower latency than strong consistency. Which Azure Cosmos DB consistency level fits?

A Bounded staleness
B Strong consistency across regions
C Eventual consistency with no bound
D Consistent prefix with ordered reads

Answer: A

Bounded staleness guarantees a maximum lag in time or versions while keeping latency lower than strong consistency. Strong consistency gives no lag but at higher latency across regions, and eventual consistency has no staleness bound at all.

2. Azure SQL Database failover groups replicate data asynchronously, so a small amount of data can be lost during a failover.

A True
B False

Answer: A (True)

Failover groups use asynchronous replication across regions, which means the secondary can lag slightly behind the primary. The RPO for a regional failover is therefore not zero.

3. Which disaster recovery pattern keeps a second-region copy of the workload running at reduced capacity, ready to scale up but not serving live traffic?

A Active-active with full capacity in both regions
B Warm standby
C Backup and restore only
D A single availability zone deployment

Answer: B

Warm standby runs a scaled-down copy in another region that is ready to scale up on failover, without serving traffic in normal operation. Active-active serves traffic from both regions, and backup-only recovery has the longest recovery time.

4. Cosmos DB spreads documents across physical partitions using a _____ key.

Answer: partition (also accepted: partition key)

The partition key determines which logical partition, and therefore which physical partition, stores each item. Choosing a key with high cardinality prevents hot partitions.

5. Which two statements about Azure region pairs are correct? (Choose two.)

- A Azure staggers platform updates across paired regions
- B Some services such as geo-redundant storage replicate data to the paired region
- C Paired regions are always in different countries
- D Paired regions are selected by the customer for each subscription
- E A paired region can serve only one customer

Answer: A, B

Azure staggers planned platform updates so that paired regions are not updated at the same time, and geo-redundant storage replicates to the paired region. Pairs are predefined rather than chosen by the customer, and some pairs sit within the same country.

6. A relational application needs a managed SQL Server engine with near-complete compatibility, including SQL Agent and cross-database queries. Which service fits?

- A Azure SQL Database single database
- B Azure Database for MySQL flexible server
- C Azure SQL Managed Instance
- D Azure Cosmos DB for NoSQL

Answer: C

SQL Managed Instance provides near-complete SQL Server compatibility, SQL Agent and cross-database queries as a managed service. A single Azure SQL Database lacks SQL Agent and some instance-level features, which makes it the tempting wrong answer.

7. A company wants all changes to subscriptions and resources recorded for security investigations, with logs sent to a central workspace. Which configuration should be designed?

- A Azure Advisor recommendations reviewed by hand once a quarter
- B Resource locks applied to all subscriptions
- C Budget alerts on the billing account
- D An activity log export to a central Log Analytics workspace

Answer: D

Exporting the activity log to a central Log Analytics workspace records control-plane changes for investigation. Advisor and budgets do not record who changed what, and locks prevent changes rather than logging them.

8. A Recovery Services vault configured with geo-redundant storage replicates backup data to the paired region.
- A True
 - B False

Answer: A (True)

Geo-redundant storage for a vault copies backup data to the paired region so it survives a regional outage. Locally redundant storage keeps data in one region and is the setting the statement is contrasted with.

9. A single-region web app needs HTTP load balancing across VM instances, URL-based routing and TLS termination. Which service should be recommended?
- A Azure Application Gateway
 - B Azure Load Balancer Standard SKU
 - C Azure Traffic Manager DNS profile
 - D Azure NAT Gateway for outbound traffic

Answer: A

Application Gateway is a layer 7 load balancer that supports URL path routing and TLS termination within a region. Load Balancer works at layer 4, and Traffic Manager routes at the DNS level, so neither handles URL routing.

10. An application needs failover to a second region within 15 minutes, with automatic traffic redirection and health probes. Which global routing service fits?
- A Azure NAT Gateway providing outbound connectivity
 - B Azure Front Door with origins in two regions
 - C Azure Bastion
 - D Azure Advisor reliability recommendations for the app

Answer: B

Front Door health probes detect a failed regional origin and route traffic to the healthy one, which supports fast automatic failover. NAT Gateway provides outbound connectivity, and Bastion and Advisor have no routing role.