

AWS MODULE 8

The screenshot shows the AWS Academy interface for Module 8 Knowledge Check. The left sidebar contains navigation links: Home, Account, Announcements, Modules, Discussions, Grades, Courses, Calendar, Inbox, History, and Help. The main content area displays the title 'Module 8 Knowledge Check' and a progress bar. Below the progress bar, the first question is shown: '1. You are designing an ecommerce web application that will scale to hundreds of thousands of concurrent users. Which database technology is best suited to hold the session state in this example?'. The options are: Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB, Amazon ElastiCache, and Amazon S3. A 'Correct' modal is displayed, stating: 'NoSQL databases like Amazon DynamoDB excel at scaling to hundreds of thousands of requests with key/value access to user profile and session.' The 'Continue' button is visible.

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1. You are designing an ecommerce web application that will scale to hundreds of thousands of concurrent users. Which database technology is best suited to hold the session state in this example?

☐ Amazon Relational Database Service (Amazon RDS)

☒ Amazon DynamoDB

☐ Amazon ElastiCache

☐ Amazon S3

Correct

NoSQL databases like Amazon DynamoDB excel at scaling to hundreds of thousands of requests with key/value access to user profile and session.

Continue

The screenshot shows the AWS Academy interface for Module 8 Knowledge Check, continuing from the previous question. The second question is: '2. You need to find an item in an Amazon DynamoDB table using an attribute other than the item's primary key. Which of the following operations should you use? (Select the best answer.)'. The options are: PutItem, Scan, Query, and GetItem. A 'Correct' modal is displayed, stating: 'To find an item in a DynamoDB table other than the item's primary key, you would use the scan operation.' The 'Continue' button is visible.

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2. You need to find an item in an Amazon DynamoDB table using an attribute other than the item's primary key. Which of the following operations should you use? (Select the best answer.)

☐ PutItem

☒ Scan

☐ Query

☐ GetItem

Correct

To find an item in a DynamoDB table other than the item's primary key, you would use the scan operation.

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3. In Amazon DynamoDB, what does the query operation enable you to do? (Select the best answer.)

- ☐ Query a table using the partition key and an optional sort key filter
- ☐ Query
- ☐ Efficient
- ☒ All of the above

Correct

In Amazon DynamoDB, the query operation allows you to do all of these things.

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4. Which AWS Cloud service is best suited for analyzing your data by using standard structured query language (SQL) and your existing business intelligence (BI) tools? (Select the best answer.)

- ☐ Amazon Redshift
- ☐ Amazon Athena
- ☐ Amazon EMR
- ☒ Amazon S3

Correct

Amazon Redshift is best suited for analyzing data.

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5. In Amazon DynamoDB, an attribute is _____. (Select the best answer.)

- ☒ a fundamental data element
- ☐ a collection
- ☐ a collection of items

Correct

In Amazon DynamoDB, an attribute is a fundamental data element.

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6. If you are developing an application that requires a database with extremely fast performance, fast scalability, and flexibility in the database schema, which service should you consider? (Select the best answer.)

- ☐ Amazon Relational Database Service (Amazon RDS)
- ☐ Amazon ElastiCache
- ☒ Amazon DynamoDB
- ☐ Amazon Redshift

Correct

If you are developing an application that requires a database with extremely fast performance, fast scalability, and flexibility in the database schema, consider Amazon DynamoDB.

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7. Which of the following use cases is appropriate for using Amazon Relational Database Service (Amazon RDS)? (Select the best answer.)

- ☐ Massive read/write rates
- ☐ Simple
- ☒ Complex transactions or complex queries
- ☐ All of the above

Correct

Use Amazon RDS when your application requires complex transactions or complex queries.

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8. A company has an application, which consists of a .NET layer that connects to a MySQL database. They want to move this application on to AWS and use AWS features such as high availability and automated backups. Which of the following would be an ideal database for this use case? (Select the best answer)

- ☐ Amazon ElastiCache
- ☒ Amazon Aurora
- ☐ Amazon Redshift
- ☐ Amazon DynamoDB

Correct

Amazon Aurora is a MySQL- and PostgreSQL-compatible relational database that would be ideal for this use case.

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9. True or false? Amazon RDS automatically patches the database software and backs up your database, storing the backups for a user-defined retention period and enabling point-in-time recovery.

☒ True ☐ False

Correct
Amazon RDS automatically patches the database software and backs up

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10. What should you consider when choosing a database type? (Select the best answer.)

☐ Data size
☐ Data availability
☐ Query performance
☐ Highly available
☒ All of these

Correct
When choosing a database type, you should consider all of these!

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