Introduction

The AWS Certified Big Data - Specialty (BDS-C00) examination is intended for individuals who perform complex big data analyses. This exam validates an examinee’s technical skills and experience in designing and implementing AWS services to derive value from data.

It validates an examinee’s ability to:

- Implement core AWS big data services according to basic architectural best practices.
- Design and maintain big data.
- Leverage tools to automate data analysis.

Recommended AWS Knowledge

- A minimum of 2 years of experience using AWS technology
- AWS security best practices
- Independently define AWS architecture and services and understand how they integrate with each other.
- Define and architect AWS big data services and explain how they fit in the data lifecycle of collection, ingestion, storage, processing, and visualization.

Recommended General IT Knowledge

- At least 5 years of experience in a data analytics field
- Understand how to control access to secure data
- Understand the frameworks that underpin large scale distributed systems like Hadoop/Spark and MPP data warehouses
- Understand the tools and design platforms that allow processing of data from multiple heterogeneous sources with difference frequencies (batch/real-time)
- Capable of designing a scalable and cost-effective architecture to process data

Exam Content

Response Types

There are two types of questions on the examination:

- **Multiple choice**: Has one correct response and three incorrect responses (distractors).
- **Multiple response**: Has two or more correct responses out of five or more options.

Select one or more responses that best complete the statement or answer the question. Distractors, or incorrect answers, are response options that an examinee with incomplete knowledge or skill would likely choose. However, they are generally plausible responses that fit in the content area defined by the test objective.

Unanswered questions are scored as incorrect; there is no penalty for guessing.

Unscored Content

Your examination may include unscored items that are placed on the test to gather statistical information. These items are not identified on the form and do not affect your score.

Exam Results

The AWS Certified Big Data - Specialty (BDS-C00) examination is a pass or fail exam. The examination is scored against a minimum standard established by AWS professionals who are guided by certification industry best practices and guidelines.
Your score report contains a table of classifications of your performance at each section level. This information is designed to provide general feedback concerning your examination performance. The examination uses a compensatory scoring model, which means that you do not need to “pass” the individual sections, only the overall examination. Each section of the examination has a specific weighting, so some sections have more questions than others. The table contains general information, highlighting your strengths and weaknesses. Exercise caution when interpreting section-level feedback.

Content Outline
This exam guide includes weightings, test domains, and objectives only. It is not a comprehensive listing of the content on this examination. The table below lists the main content domains and their weightings.

<table>
<thead>
<tr>
<th>Domain</th>
<th>% of Examination</th>
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<tbody>
<tr>
<td>Domain 1: Collection</td>
<td>17%</td>
</tr>
<tr>
<td>Domain 2: Storage</td>
<td>17%</td>
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<tr>
<td>Domain 3: Processing</td>
<td>17%</td>
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<td>Domain 4: Analysis</td>
<td>17%</td>
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<td>Domain 5: Visualization</td>
<td>12%</td>
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<tr>
<td>Domain 6: Data Security</td>
<td>20%</td>
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<tr>
<td>TOTAL</td>
<td>100%</td>
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</tbody>
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Domain 1: Collection
1.1 Determine the operational characteristics of the collection system
1.2 Select a collection system that handles the frequency of data change and type of data being ingested
1.3 Identify the properties that need to be enforced by the collection system: order, data structure, metadata, etc.
1.4 Explain the durability and availability characteristics for the collection approach

Domain 2: Storage
2.1 Determine and optimize the operational characteristics of the storage solution
2.2 Determine data access and retrieval patterns
2.3 Evaluate mechanisms for capture, update, and retrieval of catalog entries
2.4 Determine appropriate data structure and storage format

Domain 3: Processing
3.1 Identify the appropriate data processing technology for a given scenario
3.2 Determine how to design and architect the data processing solution
3.3 Determine the operational characteristics of the solution implemented

Domain 4: Analysis
4.1 Determine the tools and techniques required for analysis
4.2 Determine how to design and architect the analytical solution
4.3 Determine and optimize the operational characteristics of the Analysis

Domain 5: Visualization
5.1 Determine the appropriate techniques for delivering the results/output
5.2 Determine how to design and create the Visualization platform
5.3 Determine and optimize the operational characteristics of the Visualization system

Domain 6: Data Security
6.1 Determine encryption requirements and/or implementation technologies
6.2 Choose the appropriate technology to enforce data governance
6.3 Identify how to ensure data integrity
6.4 Evaluate regulatory requirements