

AWS CERTIFIED SOLUTIONS ARCHITECT – ASSOCIATE (SAA) CONCEPTS PRACTICE EXAM (SAMPLE)

STUDY GUIDE



Prepare with structure. Pass with confidence



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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What is the main advantage of using Dedicated Hosts in AWS EC2?**
 - A. Higher performance for high-traffic applications
 - B. Compliance and licensing benefits for your applications
 - C. Flexibility in scaling instances on demand
 - D. Automatic backup of instance data
- 2. Which AWS Transfer Family service allows for secure file transfers over the SFTP protocol?**
 - A. AWS Transfer for FTP
 - B. AWS Transfer for HTTP
 - C. AWS Transfer for SFTP
 - D. AWS Transfer for REST
- 3. How does S3 Object Lambda enhance data processing?**
 - A. By providing static content hosting
 - B. By running custom code on S3 objects before retrieval
 - C. By optimizing storage costs for objects
 - D. By limiting access based on geographical regions
- 4. Which S3 storage class is designed for data accessed less frequently, with retrieval fees?**
 - A. S3 Standard
 - B. S3 Standard-IA
 - C. S3 One Zone-IA
 - D. S3 Glacier Deep Archive
- 5. What type of attacks does AWS Shield primarily protect against?**
 - A. Cross-site scripting attacks
 - B. Distributed Denial of Service (DDoS) attacks
 - C. SQL injection attacks
 - D. Man-in-the-middle attacks

- 6. How much memory can a Lambda function allocate at maximum?**
- A. 5,120 MB
 - B. 10,240 MB
 - C. 7,680 MB
 - D. 2,048 MB
- 7. What is the primary function of the Amazon Cognito service?**
- A. To store data analytics
 - B. To manage user authentication
 - C. To process batch data
 - D. To backup databases
- 8. Which EC2 instance type is memory-optimized?**
- A. t3.micro
 - B. m5.large
 - C. r5.large
 - D. c5.xlarge
- 9. Which of the following is a limitation of SQS FIFO queues?**
- A. They cannot process messages in order
 - B. They offer low throughput compared to standard queues
 - C. They do not support exactly-once processing
 - D. They are not fully managed services
- 10. What does Cross Zone Load Balancing ensure for instances in different availability zones?**
- A. Equal distribution of Amazon RDS traffic
 - B. Even traffic distribution regardless of the availability zone
 - C. Increased security for data transmission
 - D. Improved session reliability for users

Answers

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1. B
2. C
3. B
4. B
5. B
6. B
7. B
8. C
9. B
10. B

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Explanations

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1. What is the main advantage of using Dedicated Hosts in AWS EC2?

- A. Higher performance for high-traffic applications
- B. Compliance and licensing benefits for your applications**
- C. Flexibility in scaling instances on demand
- D. Automatic backup of instance data

The main advantage of using Dedicated Hosts in AWS EC2 is the compliance and licensing benefits for your applications. Dedicated Hosts provide physical servers dedicated to your use, allowing you to maintain control over the physical hardware and meet specific licensing requirements that may dictate how software must be deployed, such as in the case of Windows Server or certain enterprise applications that require physical server allocation for compliance reasons. Using Dedicated Hosts can help businesses ensure they align with their licensing agreements, particularly when running virtual instances of software that may have restrictions on how many virtual machines can run on a physical server. This is particularly relevant for organizations in regulated sectors, where maintaining a strict compliance posture is critical. Additionally, Dedicated Hosts offer transparency in server management, which aids in simplifying the process of maintaining compliance records, ensuring that audits can be conducted effectively based on the physical hardware you manage. The other options do not align as closely with the primary functionality and intent of Dedicated Hosts. Higher performance for high-traffic applications typically involves using different instance types or optimizing configurations rather than the use of Dedicated Hosts. Flexibility in scaling instances is more commonly associated with the general EC2 environment without requiring physical dedication. Automatic backup of instance data is facilitated through other AWS services and features, such as EBS snapshots or

2. Which AWS Transfer Family service allows for secure file transfers over the SFTP protocol?

- A. AWS Transfer for FTP
- B. AWS Transfer for HTTP
- C. AWS Transfer for SFTP**
- D. AWS Transfer for REST

The correct answer is based on the specific functionality of the AWS Transfer Family services. AWS Transfer for SFTP is explicitly designed to facilitate secure file transfers using the Secure File Transfer Protocol (SFTP). This service allows users to transfer files into and out of Amazon S3 over a secure and encrypted connection, making it ideal for scenarios that require data protection and security compliance. When utilizing AWS Transfer for SFTP, users benefit from the ability to manage access control to S3 buckets easily, maintain secure connections, and take advantage of the scalability and durability of Amazon S3 for file storage. This makes it particularly well-suited for organizations that require secure, robust file transfer solutions. The other services in the AWS Transfer Family, while they may support other protocols such as FTP and HTTP, do not provide secure SFTP transfers. Since SFTP specifically emphasizes encryption and security in data transfer, only AWS Transfer for SFTP meets this requirement.

3. How does S3 Object Lambda enhance data processing?

- A. By providing static content hosting
- B. By running custom code on S3 objects before retrieval**
- C. By optimizing storage costs for objects
- D. By limiting access based on geographical regions

S3 Object Lambda enhances data processing by allowing you to run custom code on S3 objects just before they are retrieved. This capability enables developers to modify, transform, or otherwise process the data as it is being accessed, rather than needing to change the underlying object stored in S3. This is particularly useful for scenarios where data needs to be personalized, formatted, or filtered based on the client application, user permissions, or any other context. For example, an application could leverage this feature to dynamically resize images or convert data formats on-the-fly without needing to pre-process and store multiple versions of the same file in different formats. Using S3 Object Lambda simplifies the architecture by reducing the need for intermediary processing services and allows applications to access the latest state of the data without pre-existing transformations. This seamless integration of data processing with object storage enhances efficiency and responsiveness in data-driven applications.

4. Which S3 storage class is designed for data accessed less frequently, with retrieval fees?

- A. S3 Standard
- B. S3 Standard-IA**
- C. S3 One Zone-IA
- D. S3 Glacier Deep Archive

The S3 Standard-IA (Infrequent Access) storage class is specifically designed for data that is accessed less frequently but still requires rapid access when needed. It offers lower storage costs compared to the S3 Standard storage class while incurring retrieval fees when data is accessed. This storage class is ideal for use cases where the data does not need to be accessed continuously but still must be available quickly when it is required. This storage class is beneficial for storing data such as backups and older files that are not accessed regularly but should be retrievable at a moment's notice. The combination of lower storage costs and retrieval fees makes it cost-effective for infrequently accessed data compared to other storage classes that do not have these fees or are designed for more frequent access. Other storage classes, while they may offer varying benefits, do not specifically cater to infrequent access with retrieval fees in the same manner as S3 Standard-IA. For instance, S3 Standard is geared towards frequently accessed data, while S3 Glacier Deep Archive is designed for long-term archival storage where access times are longer and retrieval is more costly. S3 One Zone-IA also targets infrequent access, but it stores data in a single availability zone, limiting data durability compared to S3

5. What type of attacks does AWS Shield primarily protect against?

- A. Cross-site scripting attacks
- B. Distributed Denial of Service (DDoS) attacks**
- C. SQL injection attacks
- D. Man-in-the-middle attacks

AWS Shield is specifically designed to provide protection against Distributed Denial of Service (DDoS) attacks. DDoS attacks involve overwhelming a target, such as a web application or an online service, with a massive volume of traffic in an attempt to disrupt its normal functioning. AWS Shield helps to mitigate these types of attacks by automatically detecting and filtering out large-scale traffic spikes that are characteristic of DDoS attacks, ensuring that legitimate user traffic can continue to reach the protected resources. The service operates at both the network and application layers, with AWS Shield Standard providing always-on protection at no additional cost, while AWS Shield Advanced offers more sophisticated protection, including enhanced DDoS detection, mitigation capabilities, and attack diagnostics. This is particularly important for businesses that rely on online services, as a successful DDoS attack can have severe implications, including loss of revenue, damage to reputation, and potential legal issues. While the other options represent valid attack vectors, they fall outside the specific protective capabilities that AWS Shield offers. Cross-site scripting, SQL injection, and man-in-the-middle attacks are typically addressed through secure coding practices, application firewalls, and other types of security measures rather than through the capabilities of AWS Shield.

6. How much memory can a Lambda function allocate at maximum?

- A. 5,120 MB
- B. 10,240 MB**
- C. 7,680 MB
- D. 2,048 MB

AWS Lambda allows you to allocate memory to a function with a maximum limit of 10,240 MB (or 10 GB). This capability is particularly important because the amount of memory allocated directly impacts the CPU and other factors such as networking and disk throughput associated with the Lambda function. As the memory size increases, not only does the function have access to more RAM, but the available CPU resources also scale proportionately. This makes it crucial to understand memory allocation when optimizing Lambda functions for performance. The correct answer signifies awareness of AWS's memory allocation limits for Lambda functions, showcasing a good understanding of how to leverage Lambda's capabilities effectively for increased performance in serverless applications.

7. What is the primary function of the Amazon Cognito service?

- A. To store data analytics
- B. To manage user authentication**
- C. To process batch data
- D. To backup databases

The primary function of the Amazon Cognito service is to manage user authentication. Amazon Cognito provides a secure and scalable user identity and access management system that allows developers to easily manage sign-up, sign-in, and access control for web and mobile applications. It helps developers integrate authentication with social identity providers (like Google, Facebook, and Amazon) and enterprise identity providers via SAML, thereby streamlining the process of managing user accounts and ensuring secure access to applications. By leveraging Amazon Cognito, developers can also implement features such as user pools for managing sign-up and sign-in processes, as well as federated identities for providing access to AWS resources. Thus, it plays a crucial role in enhancing the security of applications through effective user management and authentication processes.

8. Which EC2 instance type is memory-optimized?

- A. t3.micro
- B. m5.large
- C. r5.large**
- D. c5.xlarge

The r5.large instance type is classified as a memory-optimized instance in the Amazon EC2 family. Memory-optimized instances are specifically designed to deliver fast performance for workloads that require high memory processing, such as databases, in-memory caches, and real-time big data analytics. The r5 instances offer a large amount of RAM relative to the CPU, which makes them ideal for applications that need to manage large datasets in memory to provide fast response times. The r5.large instance offers a balanced combination of compute, memory, and storage resources, supporting workloads that require more memory compared to compute power. This makes r5 instances particularly well-suited for tasks such as high-performance databases, data mining, and processing large in-memory data sets. Such features highlight why the r5.large is categorized as memory-optimized, emphasizing the need for applications that benefit from higher memory availability.

9. Which of the following is a limitation of SQS FIFO queues?

- A. They cannot process messages in order
- B. They offer low throughput compared to standard queues**
- C. They do not support exactly-once processing
- D. They are not fully managed services

The reason why the choice indicating FIFO queues in SQS offer low throughput compared to standard queues is correct is rooted in the design and functionality of FIFO (First-In-First-Out) queues. SQS FIFO queues are specifically designed to guarantee that messages are processed in the exact order they are sent and to prevent duplicates. To maintain this order and provide the strict, exactly-once processing model, FIFO queues impose certain constraints that inherently limit their throughput capabilities. Standard queues, in contrast, can achieve a higher throughput because they allow messages to be processed concurrently without strict ordering, which enhances performance when handling a large volume of messages. In environments where message ordering is not a critical requirement, standard queues can efficiently manage a higher rate of message transactions, making them more appropriate for use cases demanding greater throughput. The constraints on FIFO queues to ensure message ordering and deduplication, such as grouping messages into 'message groups,' do affect their ability to scale as effectively as standard queues. Therefore, it's crucial to choose the right type of queue based on the specific needs of the application, especially when considering the trade-off between message order and processing speed.

10. What does Cross Zone Load Balancing ensure for instances in different availability zones?

- A. Equal distribution of Amazon RDS traffic
- B. Even traffic distribution regardless of the availability zone**
- C. Increased security for data transmission
- D. Improved session reliability for users

The concept of Cross Zone Load Balancing is designed to ensure that traffic is evenly distributed across all the available instances in different availability zones. When enabled, this feature allows a load balancer to distribute incoming application traffic across instances located in multiple availability zones. This means that if you have instances in several zones, regardless of their respective load, the traffic is allocated evenly across all zones, leading to optimal resource utilization and improved fault tolerance. By achieving an even distribution of traffic, the load balancer helps to prevent any single zone from becoming a bottleneck, which in turn enhances the overall performance and scalability of the application. This is particularly important in high-availability architectures, as it ensures that even if one availability zone experiences issues, the instances in other zones can still handle the traffic effectively without being overwhelmed. Other options, such as equal distribution of Amazon RDS traffic, increased security for data transmission, and improved session reliability for users, do not directly relate to the primary function of Cross Zone Load Balancing, which specifically focuses on the equitable distribution of incoming traffic across instances in multiple availability zones.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://awssaaconcepts.examzify.com>

We wish you the very best on your exam journey. You've got this!

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