

AWS (Amazon Web Services) Certification Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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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

- 1. What is the main characteristic of On-Demand Capacity Reservations?**
 - A. They are temporary and flexible according to demand**
 - B. They require full upfront payment**
 - C. They allow reservations based on pricing bids**
 - D. They allow reservations for specific instance types in a chosen availability zone**
- 2. What describes ephemeral storage in the context of AWS EC2?**
 - A. Permanently stores data**
 - B. Retains data even after termination**
 - C. Local storage that is lost upon instance termination**
 - D. Cloud-based storage**
- 3. Which option for instance purchasing has the smallest discount?**
 - A. All Upfront**
 - B. No Upfront**
 - C. Partial Upfront**
 - D. Scheduled Instances**
- 4. What is a load balancer primarily used for in a cloud environment?**
 - A. To store backups of user data**
 - B. To archive all website traffic**
 - C. To evenly distribute user requests among servers**
 - D. To enhance data encryption**
- 5. What is one of the main advantages of using cloud vendors for resource management?**
 - A. Increased local hardware management requirements**
 - B. Reduction of responsibility for hardware maintenance**
 - C. Full control over regional data centers**
 - D. Mandatory contracts with local service providers**

- 6. What do Edge Locations in the AWS infrastructure primarily facilitate?**
- A. Data storage solutions**
 - B. Application hosting**
 - C. Caching to reduce latency**
 - D. Virtual machine deployment**
- 7. Which two database engines are provided by Amazon ElastiCache?**
- A. MySQL and Oracle**
 - B. Redis and Memcached**
 - C. PostgreSQL and Aurora**
 - D. MariaDb and Microsoft SQL Server**
- 8. What role do AWS firewalls play in networking?**
- A. Routing user traffic efficiently**
 - B. Providing data storage**
 - C. Allowing or denying traffic workflow**
 - D. Operating virtual machines**
- 9. What is the primary purpose of using the FPGA Optimized Instance Family?**
- A. Data analytics**
 - B. Machine learning**
 - C. Custom hardware acceleration**
 - D. Web hosting**
- 10. What is the primary function of the Amazon EC2 Container Service?**
- A. Hosting static websites**
 - B. Packaging applications as containers**
 - C. Managing virtual machines**
 - D. Creating databases**

Answers

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

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Explanations

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1. What is the main characteristic of On-Demand Capacity Reservations?

- A. They are temporary and flexible according to demand
- B. They require full upfront payment
- C. They allow reservations based on pricing bids
- D. They allow reservations for specific instance types in a chosen availability zone**

On-Demand Capacity Reservations are designed to ensure that users can reserve capacity for specific instance types in designated availability zones. This characteristic allows organizations to guarantee that necessary resources will be available when they need them, which is particularly important for applications with unpredictable workloads or for systems that require a certain level of resource availability. This feature is beneficial for enterprises that anticipate high usage during specific periods but want the flexibility of the on-demand model. Users can reserve capacity without the long-term commitment associated with other offerings, allowing them to achieve both reservation of resources and the flexibility to scale as their demand changes. By guaranteeing availability of the selected resources in the specific availability zones, users can plan their deployments with more confidence, knowing that they won't encounter capacity constraints during peak usage times. This ability to reserve specific instance types also ensures that deployments match the technical requirements of the applications being run.

2. What describes ephemeral storage in the context of AWS EC2?

- A. Permanently stores data
- B. Retains data even after termination
- C. Local storage that is lost upon instance termination**
- D. Cloud-based storage

Ephemeral storage in the context of AWS EC2 is specifically designed to be temporary. It provides fast, temporary storage that is associated with a specific instance. This type of storage is often used for hosting temporary files or data that do not need to persist beyond the life of the instance. When an EC2 instance is launched, it can be configured to use ephemeral storage, which is backed by the physical storage of the underlying hardware. However, this storage is specifically designed to be lost when the instance is terminated or stopped. This characteristic makes it ideal for temporary workloads where data loss is acceptable. In contrast, options that suggest permanence or continuity of data after instance termination do not align with the definition of ephemeral storage. For example, permanent storage types, such as Elastic Block Store (EBS) or S3, offer data retention capabilities despite instance lifecycle changes. Therefore, option C accurately captures the essence of ephemeral storage being temporary and reliant on the instance's lifespan.

3. Which option for instance purchasing has the smallest discount?

- A. All Upfront
- B. No Upfront**
- C. Partial Upfront
- D. Scheduled Instances

The option associated with the smallest discount in instance purchasing is the No Upfront option. This purchasing model allows users to pay for their instances on a pay-as-you-go basis, meaning there are no upfront costs involved. While this provides flexibility, it results in the least substantial savings compared to the other payment models. In contrast, the All Upfront option requires a one-time payment for the entire term of the instance, which typically offers the largest discount because it provides AWS with assurance of your commitment for the duration. The Partial Upfront option, though it involves some upfront payment, still offers significant discounts relative to No Upfront, as it combines an initial commitment with ongoing usage charges at a reduced rate. Scheduled Instances represent another opportunity for saving, as they allow users to reserve capacity in a more predictable summary, often at a also competitive rate based on the commitment. Since the No Upfront option caters to users seeking maximum flexibility and minimal initial investment, it does not incentivize long-term commitment, and therefore does not provide significant discounts compared to the alternatives.

4. What is a load balancer primarily used for in a cloud environment?

- A. To store backups of user data
- B. To archive all website traffic
- C. To evenly distribute user requests among servers**
- D. To enhance data encryption

A load balancer is primarily used to evenly distribute user requests among servers in a cloud environment. This ensures that no single server becomes a bottleneck due to an overwhelming number of incoming requests. By balancing the load across multiple servers, the system can achieve higher availability and reliability, as it enhances performance and minimizes downtime. When one server is experiencing heavy traffic, the load balancer can redirect new requests to other servers that are less busy, thus optimizing resource utilization and improving user experience. In addition to improving performance and availability, load balancers can also help in performing health checks on the servers it manages to ensure that traffic is only directed to those that are operational. This feature plays a critical role in fault tolerance, as it allows the system to automatically adjust to changes in server availability. While backups, archiving traffic, and data encryption are important functions within a cloud ecosystem, they do not pertain directly to the primary function of a load balancer, which is focused solely on managing traffic distribution among servers.

5. What is one of the main advantages of using cloud vendors for resource management?

- A. Increased local hardware management requirements**
- B. Reduction of responsibility for hardware maintenance**
- C. Full control over regional data centers**
- D. Mandatory contracts with local service providers**

One of the main advantages of using cloud vendors for resource management is the reduction of responsibility for hardware maintenance. When organizations leverage cloud services, they offload much of the burden associated with physical hardware management to the cloud provider. This includes responsibilities such as maintaining, upgrading, and securing the hardware, as well as ensuring operational reliability and performance. Cloud vendors typically offer a comprehensive infrastructure solution that encompasses hardware, networking, storage, and management tools, allowing organizations to focus on their core business activities rather than the complexities of hardware upkeep. This not only leads to cost savings in terms of labor and operational expenses but also enables faster scalability and deployment of resources to meet changing business demands. In contrast, options suggesting increased local hardware management requirements or full control over regional data centers do not align with the primary benefits of cloud computing, since those would imply a greater involvement in hardware management rather than reducing it. Similarly, mandatory contracts with local service providers misrepresent the flexibility often offered by cloud vendors, who typically allow businesses to choose from a range of services without being tied to local infrastructures.

6. What do Edge Locations in the AWS infrastructure primarily facilitate?

- A. Data storage solutions**
- B. Application hosting**
- C. Caching to reduce latency**
- D. Virtual machine deployment**

Edge Locations in the AWS infrastructure primarily facilitate caching to reduce latency. These locations are part of the content delivery network (CDN) known as Amazon CloudFront and serve as the final point for delivering content to users. By caching copies of frequently accessed data and content closer to the end users, Edge Locations minimize the distance data has to travel, resulting in a faster response time and improved performance for applications that rely on rapid content delivery. When users request content that is cached at an Edge Location, they receive it directly from that nearby location, which significantly decreases the latency compared to fetching it from the origin server, which could be located much farther away. This is particularly beneficial for static content, such as images, videos, and other files that do not change frequently. To contrast with the other options, while data storage solutions typically align with services like Amazon S3 and application hosting relates to services like Amazon EC2, these do not focus specifically on the quick retrieval of content at scale. Virtual machine deployment is managed through services such as EC2 and is not a primary function of Edge Locations, which are more specialized in caching and content delivery.

7. Which two database engines are provided by Amazon ElastiCache?

- A. MySQL and Oracle
- B. Redis and Memcached**
- C. PostgreSQL and Aurora
- D. MariaDb and Microsoft SQL Server

Amazon ElastiCache is a fully managed in-memory data store service provided by AWS, and it is primarily designed to enhance the performance of applications by allowing them to access data with minimal latency. The two database engines that are specifically provided by ElastiCache are Redis and Memcached. Redis is a key-value store known for its advanced data structures and in-memory data storage capabilities, making it suitable for use cases that require rapid data retrieval and processing, such as caching, real-time analytics, and session management. Memcached, on the other hand, is a simpler key-value store that is particularly effective for caching objects and improving the performance of web applications by minimizing database load. The other options presented involve traditional relational database engines, which are not the focus of Amazon ElastiCache. Instead, they fall under different AWS services, such as Amazon RDS (Relational Database Service), which supports engines like MySQL, PostgreSQL, Oracle, and SQL Server. This distinction is key to understanding the role of ElastiCache in AWS architecture, reinforcing that it is specifically for in-memory caching with Redis and Memcached, making the chosen answer accurate.

8. What role do AWS firewalls play in networking?

- A. Routing user traffic efficiently
- B. Providing data storage
- C. Allowing or denying traffic workflow**
- D. Operating virtual machines

AWS firewalls play a crucial role in networking by controlling the flow of network traffic based on predetermined security rules. Their primary function is to allow or deny data packets entering or exiting a network based on the defined security policies. This is essential for creating a secure environment, as it helps protect resources from unauthorized access, potential attacks, and other security threats. Firewalls can be configured to examine various parameters of each packet, such as IP addresses, protocols, and port numbers, making it possible to enforce security measures tailored to the needs of the organization. In contrast, routing user traffic efficiently involves directing data packets through the best paths in the network, which is a different function entirely. While routing is important for traffic management, it does not involve the security mechanisms that firewalls provide. Similarly, providing data storage is not related to the function of firewalls; storage is managed by services such as Amazon S3 or EBS. Lastly, operating virtual machines relates to the provision and management of compute resources rather than handling network traffic control. Thus, the correct understanding of the vital security role of firewalls highlights the importance of robust network security measures in AWS environments.

9. What is the primary purpose of using the FPGA Optimized Instance Family?

- A. Data analytics
- B. Machine learning
- C. Custom hardware acceleration**
- D. Web hosting

The primary purpose of using the FPGA Optimized Instance Family is custom hardware acceleration. FPGAs, or Field-Programmable Gate Arrays, allow users to implement specific hardware functions that can be tailored to meet the needs of particular applications. This means that FPGAs can be programmed to optimize the performance of certain computational tasks, making them ideal for workloads that require high throughput and low latency. When using FPGA instances in AWS, organizations can create custom data processing pipelines, enhance workloads like video transcoding, financial simulations, or data compression, and perform other specialized tasks that benefit from hardware optimization. This level of customization gives developers the flexibility to achieve superior performance compared to general-purpose instances. In contrast, while data analytics, machine learning, and web hosting are important use cases within AWS, they typically rely on different instance families that are optimized for general computing or specific algorithms and frameworks, rather than custom hardware implementations provided by FPGA instances. Having the ability to deploy tailored processing solutions is the standout capability of the FPGA Optimized Instance Family.

10. What is the primary function of the Amazon EC2 Container Service?

- A. Hosting static websites
- B. Packaging applications as containers**
- C. Managing virtual machines
- D. Creating databases

The primary function of the Amazon EC2 Container Service, now known as Amazon Elastic Container Service (ECS), is to provide a platform for deploying and managing containerized applications. This service enables developers to package their applications in containers, which are lightweight, portable, and can run consistently across various computing environments. By utilizing containers, organizations can achieve a higher level of resource utilization, streamline development processes, and enhance scalability and portability of their applications. ECS supports Docker containers, allowing for easy management of container orchestration and simplifying the deployment process. It integrates well with other AWS services, facilitating seamless application deployment and operations in the cloud. The other options provided do not align with the core functionality of ECS. Hosting static websites falls under services like Amazon S3, managing virtual machines pertains to Amazon EC2, and creating databases is typically handled by Amazon RDS or DynamoDB. Therefore, the focus on packaging applications as containers is the defining characteristic of Amazon ECS.

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://aws.examzify.com>

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