

AWS Academy Cloud Foundations Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

- 1. How does Amazon EBS provide durability for data?**
 - A. By replicating across multiple regions**
 - B. By replicating within an Availability Zone**
 - C. By automatic backups every hour**
 - D. By leveraging S3 integration**
- 2. What feature does the AWS IAM Access Analyzer provide?**
 - A. It helps identify resources accessible from outside the AWS environment**
 - B. It allows users to track data changes over time**
 - C. It manages API requests efficiently**
 - D. It enables multi-factor authentication for accounts**
- 3. Which AWS service is primarily used for monitoring and logging resources?**
 - A. Amazon S3**
 - B. Amazon CloudFront**
 - C. Amazon CloudWatch**
 - D. Amazon EC2**
- 4. Which of the following must be specified when launching a new Amazon Elastic Compute Cloud (Amazon EC2) Windows instance?**
 - A. Windows version and instance size**
 - B. Security group and key pair**
 - C. Amazon EC2 instance type and Amazon Machine Image (AMI)**
 - D. Storage type and region**
- 5. Your company provides media content via the Internet to customers through a paid subscription model. What approach can you use to serve this private content securely?**
 - A. Encrypt all content before delivery**
 - B. Provide signed Amazon CloudFront URLs to authenticated users**
 - C. Limit access to only in-house employees**
 - D. Secure the content using a VPN**

6. ____ means the infrastructure has built-in component redundancy and ____ means that resources dynamically adjust to increases or decreases in capacity requirements.
- A. No human intervention, fault tolerant
 - B. Fault tolerant, no human intervention
 - C. Elastic and scalable, fault tolerant
 - D. Fault tolerant, elastic and scalable
7. Which of the following are features of Amazon Elastic Block Store (Amazon EBS)?
- A. Data stored on EBS is not replicated
 - B. EBS volumes can be encrypted transparently to workloads
 - C. Data on EBS is stored outside availability zones
 - D. EBS does not support snapshots
8. Which of the following characterizes cloud services?
- A. Limited access
 - B. Permanent ownership of infrastructure
 - C. Resource scalability
 - D. Complex managing requirements
9. What is one of the main benefits of using Amazon EC2?
- A. The ability to scale computing capacity up or down based on demand
 - B. Provisioning hardware quickly and easily
 - C. Advanced database management capabilities
 - D. Integrated machine learning tools
10. Which of the following are considered examples of "security in the cloud"?
- A. Load balancing and caching
 - B. Which AWS services are used with the content
 - C. In which country content is stored
 - D. Physical security of data centers

Answers

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

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Explanations

1. How does Amazon EBS provide durability for data?

- A. By replicating across multiple regions
- B. By replicating within an Availability Zone**
- C. By automatic backups every hour
- D. By leveraging S3 integration

Amazon Elastic Block Store (EBS) is designed to provide high durability for the data it stores by replicating the data within a single Availability Zone (AZ). This means that when you create an EBS volume, the data is automatically replicated across multiple physical storage devices in that Availability Zone. This replication ensures that even if there is a hardware failure on one of the devices storing the data, the information remains accessible from another device. The architecture of an Availability Zone is such that it provides isolated and independent failure domains. By keeping multiple copies of the same data within the same AZ, EBS can protect against local hardware failures, thus enhancing the durability and availability of the data stored on the volume. While the other options might sound reasonable, they do not accurately reflect how EBS ensures durability. For instance, replicating across multiple regions would involve network latency and does not apply to EBS, which is inherently tied to a specific AZ. Automatic backups, while a useful feature, do not contribute to the immediate durability of live data as the backups occur on a set schedule. Finally, EBS volumes do not directly leverage S3 integration for durability; S3 is a different service with its own durability mechanisms, primarily designed for object storage.

2. What feature does the AWS IAM Access Analyzer provide?

- A. It helps identify resources accessible from outside the AWS environment**
- B. It allows users to track data changes over time
- C. It manages API requests efficiently
- D. It enables multi-factor authentication for accounts

The AWS IAM Access Analyzer is designed to help users identify resources within their AWS environment that may be accessible from outside of that environment. This feature enhances security by analyzing the resource policies and identifying any potential configurations that would allow external access. By understanding which resources are exposed, users can take appropriate actions to secure their resources, thereby reducing the risk of unintended data exposure or unauthorized access. While options pointing to tracking data changes, managing API requests, or enabling multi-factor authentication do relate to security and management of AWS environments, they do not specifically address the primary functionality of IAM Access Analyzer, which focuses on analyzing and improving access controls based on resource policies. Understanding external access points is crucial for maintaining robust security practices in cloud environments.

3. Which AWS service is primarily used for monitoring and logging resources?

- A. Amazon S3**
- B. Amazon CloudFront**
- C. Amazon CloudWatch**
- D. Amazon EC2**

Amazon CloudWatch is the primary service used for monitoring and logging resources within AWS. It provides a robust platform for tracking metrics, collecting log files, setting alarms, and taking automated actions based on predefined thresholds. Amazon CloudWatch allows users to gain insights into application performance, detect anomalies, and optimize resource utilization across various AWS services. Its capabilities include monitoring the performance of AWS services like Amazon EC2, DynamoDB, and RDS, making it an essential tool for system health monitoring. Users can visualize logs and performance data through dashboards, helping teams make informed decisions based on real-time data. Furthermore, CloudWatch integrates with other AWS services, enhancing its functionality and offering seamless alerts and notifications. While other services mentioned may have specific functionalities, they do not focus primarily on monitoring and logging as CloudWatch does. For instance, Amazon S3 is used for scalable storage solutions, Amazon CloudFront is a content delivery network, and Amazon EC2 provides compute capacity in the cloud. None offer the specialized monitoring and logging capabilities that are central to the function of CloudWatch.

4. Which of the following must be specified when launching a new Amazon Elastic Compute Cloud (Amazon EC2) Windows instance?

- A. Windows version and instance size**
- B. Security group and key pair**
- C. Amazon EC2 instance type and Amazon Machine Image (AMI)**
- D. Storage type and region**

When launching a new Amazon Elastic Compute Cloud (EC2) Windows instance, specifying the Amazon EC2 instance type and the Amazon Machine Image (AMI) is essential. The Amazon Machine Image is crucial as it contains the operating system, including the specific Windows version you'd like to run, along with pre-installed software or configurations you may require. This selection defines the software environment of your instance. Additionally, choosing the instance type determines the resources allocated to your instance, such as CPU and memory, which are critical for tailoring the performance of the application or service you plan to run. Each instance type is suited for different usage scenarios, and selecting the correct one impacts both the performance and cost of usage. Thus, these two factors are fundamental to the setup of any EC2 instance.

5. Your company provides media content via the Internet to customers through a paid subscription model. What approach can you use to serve this private content securely?

A. Encrypt all content before delivery

B. Provide signed Amazon CloudFront URLs to authenticated users

C. Limit access to only in-house employees

D. Secure the content using a VPN

Providing signed Amazon CloudFront URLs to authenticated users is an effective approach for serving private content securely in a subscription model. This method leverages Amazon CloudFront's capability to generate signed URLs, which allow you to control access to your media content. When a user attempts to access the content, the signed URL grants them temporary access for a specified duration, according to your security settings. This ensures that only authenticated users who have legitimately purchased a subscription can access the content, maintaining the integrity and confidentiality of your media. Additionally, the use of signed URLs helps to prevent unauthorized sharing of the content, as the URLs can expire, and their usage can be tracked. In contrast, encrypting all content before delivery is a good security practice but does not address the issue of access control; without the proper means of authentication and authorization, unauthorized users could still gain access if they somehow acquire the content. Limiting access to only in-house employees does not align with the business model, since it would prevent paying customers from accessing the media. Securing content using a VPN could protect the data in transit, but it adds complexity and may not be feasible for a broad customer base accessing content over the internet. Therefore, signed URLs offer a balanced solution that addresses both security and

6. ____ means the infrastructure has built-in component redundancy and ____ means that resources dynamically adjust to increases or decreases in capacity requirements.

A. No human intervention, fault tolerant

B. Fault tolerant, no human intervention

C. Elastic and scalable, fault tolerant

D. Fault tolerant, elastic and scalable

The concept of fault tolerance refers to a system's capability to continue operating properly in the event of a failure of some of its components. This means that the infrastructure includes redundancy, allowing it to maintain functionality even when certain parts fail. For example, using multiple servers or data center locations ensures that if one server goes down, others can take over, thus minimizing downtime and maintaining service availability. The term "elastic and scalable" pertains to the infrastructure's ability to dynamically adjust resources based on demand. Elasticity allows for the automatic adjustment of resources, such as adding or reducing server capacity, in response to real-time changes in usage. This means that during peak times when there is high demand, extra resources can be provisioned seamlessly, and when demand decreases, resources can be scaled down to save costs. Combining these two ideas, the chosen answer accurately defines fault tolerance as having built-in redundancy to handle component failures, while also recognizing that elasticity allows for the system to automatically adjust to varying capacity requirements. This is essential for maintaining performance and efficiency in cloud environments.

7. Which of the following are features of Amazon Elastic Block Store (Amazon EBS)?

- A. Data stored on EBS is not replicated
- B. EBS volumes can be encrypted transparently to workloads**
- C. Data on EBS is stored outside availability zones
- D. EBS does not support snapshots

Amazon Elastic Block Store (EBS) provides several key features that enhance the reliability, performance, and security of persistent storage for Amazon Elastic Compute Cloud (EC2) instances. One of the standout features of Amazon EBS is its capability to encrypt volumes transparently to workloads. This means that when a volume is encrypted, the encryption and decryption processes are handled automatically by the service, without requiring any modifications or extra effort from developers or applications. This feature allows users to securely store sensitive data and adhere to compliance requirements effortlessly. Encryption with EBS is seamless, enabling users to manage their data with enhanced security while maintaining the performance of their workloads. It is particularly important for businesses that handle sensitive information, such as personal data or financial records, as it provides an added layer of protection. Regarding the other options, they do not accurately describe the characteristics of Amazon EBS. For example, EBS volumes are designed with replication capabilities within a single Availability Zone to provide durability and availability. Additionally, EBS volumes are not stored outside Availability Zones; rather, they are closely integrated with the EC2 instances in the same zone to ensure low-latency access. Furthermore, EBS does support snapshots, which allow users to create backups of volumes at a point

8. Which of the following characterizes cloud services?

- A. Limited access
- B. Permanent ownership of infrastructure
- C. Resource scalability**
- D. Complex managing requirements

Resource scalability is a defining characteristic of cloud services. This means that organizations can easily adjust their resource usage based on demand, scaling up or down as needed. This flexibility is especially valuable for businesses that experience fluctuating workloads, allowing them to efficiently manage costs by only paying for what they use. In cloud computing, resources such as storage, computing power, and applications can be provisioned and de-provisioned rapidly, facilitating a more agile response to changing business needs. This feature allows organizations to expand their IT capabilities quickly without the necessity of significant upfront investments in physical hardware. The other options do not align with the core benefits of cloud computing. For instance, limited access contradicts the principle of cloud services, as they typically provide broad access from various locations and devices. Permanent ownership of infrastructure is not a feature of cloud services, where resources are rented rather than owned outright. Lastly, while managing cloud resources can be complex, one of the key advantages of cloud services is that providers often offer tools and support to simplify management tasks. Thus, scalability is a clear and essential characteristic of cloud services.

9. What is one of the main benefits of using Amazon EC2?

- A. The ability to scale computing capacity up or down based on demand**
- B. Provisioning hardware quickly and easily**
- C. Advanced database management capabilities**
- D. Integrated machine learning tools**

One of the main benefits of using Amazon EC2 (Elastic Compute Cloud) is the ability to scale computing capacity up or down based on demand. This elasticity allows users to efficiently handle varying workloads without the need to invest in physical hardware. Companies can quickly increase or decrease the number of virtual servers they use, which helps manage costs effectively while ensuring that application performance remains optimal. This scaling can be done manually or automatically through features like Auto Scaling, which adjusts the number of instances running based on real-time demand. This flexibility means that businesses can respond to traffic spikes or decreases seamlessly, making EC2 highly suited for applications with fluctuating resource requirements. While the other options highlight useful aspects of cloud services, they do not directly encapsulate this critical feature of EC2. Provisioning hardware quickly and easily is a benefit but is part of the broader scalable environment EC2 offers. Advanced database management capabilities and integrated machine learning tools are aspects of other AWS services and do not specifically represent main benefits of EC2 itself.

10. Which of the following are considered examples of "security in the cloud"?

- A. Load balancing and caching**
- B. Which AWS services are used with the content**
- C. In which country content is stored**
- D. Physical security of data centers**

The correct answer focuses on the importance of understanding where data is physically stored, which is a key element of security in the cloud. Knowing the geographical location of data storage is crucial for compliance with various data protection regulations and policies, as different jurisdictions have different rules governing data privacy and security. When organizations move data to the cloud, they must assess how these regulations affect their operations and ensure that their data storage practices align with legal requirements. Choosing the location where data is stored also has implications for performance and latency. By understanding where data is domiciled, organizations can implement the necessary controls and safeguards to protect sensitive information, thereby ensuring a level of security that is compliant with their operational and regulatory demands. In contrast, load balancing and caching relate more to performance optimization rather than security measures. The AWS services used with content are typically focused on functionality and user experience rather than specifically addressing security considerations. The physical security of data centers, while indeed a significant aspect of overall cloud security, is not directly related to the user's control and understanding of their data's security in the cloud context itself; it pertains more to infrastructure security rather than the governance or management of that data. Understanding all these elements helps organizations adopt a holistic approach to cloud security.

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://awsacademycloudfoundations.examzify.com>

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