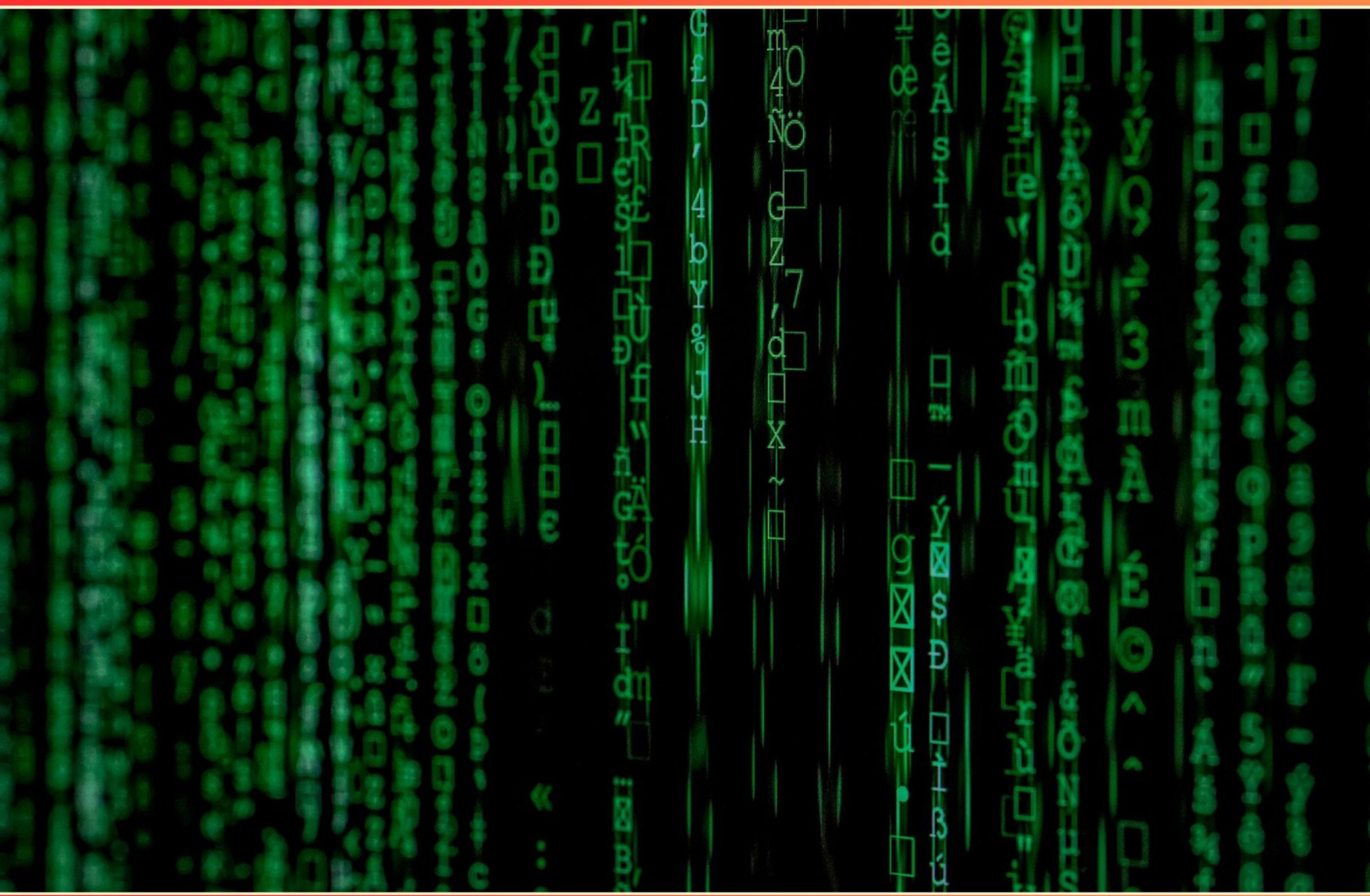
MICROSOFT CERTIFIED: AZURE FUNDAMENTALS (AZ-900) PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR THE FULL VERSION STUDY GUIDE

https://az900.examzify.com

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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.

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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!

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Questions

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1. **Can tags be utilized for automated actions and organizing resources in Azure?**

   A. True

   B. False

2. **Does Azure DDoS Standard provide protection against all layers of attacks, including application layer attacks?**

   A. True

   B. False

   C. Only against protocol attacks

   D. Only against volumetric attacks

3. **What is the strongest way to protect sensitive customer data?**

   A. Encrypt data as it sits in your database.

   B. Encrypt data as it travels over the network.

   C. Encrypt data both as it sits in your database and as it travels over the network.

   D. Use access controls to limit data exposure.

4. **What should you be concerned about when notified of multiple authentication attempts with different passwords?**

   A. Suspected brute force attack

   B. Suspected identity theft (pass-the-hash)

   C. Network congestion

   D. Normal user behavior

5. **Is a virtual network scoped to a single region?**

   A. True

   B. False

   C. Depends on configuration

   D. Only for certain services

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6. What uses the DNS server closest to the user to direct traffic to a globally distributed endpoint?

A. Traffic Manager

B. Gateway

C. Network security group

D. Load balancer

7. What is the main use case for Azure Data Lake Storage?

A. Organizing data with SQL databases

B. High-speed transactional processing

C. Large-scale analytics of big data

D. Hosting web applications

8. Which feature of Azure Monitor allows you to visually analyze telemetry data?

A. Application insights

B. Service Health

C. Metrics

D. Alerts

9. What is the maximum length of time you can use an Azure free subscription before it expires?

A. 12 months

B. 30 days

C. 24 months

D. 6 months

10. For which type of data collection do you need to enable diagnostics in Azure Monitor?

A. Usage of web applications

B. Container workload performance

C. Linux virtual machine (VM) health

D. Event logs

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Answers

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

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Explanations

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1. Can tags be utilized for automated actions and organizing resources in Azure?

A. True

B. False

Tags in Azure are indeed a powerful feature that can be utilized for organizing resources and enabling automated actions. Tags are key-value pairs that you can associate with your Azure resources, which help in categorizing and managing them effectively. For example, you could tag resources based on their environment (such as development, testing, or production), department, project, or any other custom criteria relevant to your organization. Moreover, tags can facilitate automated actions through Azure policies. By implementing policies that apply to tagged resources, organizations can enforce certain rules or actions automatically. For instance, if resources are tagged to indicate they belong to a specific budget or cost center, automated scripts or processes could shut down or resize these resources based on their usage or adherence to budget limits. Therefore, the assertion that tags can be utilized for automated actions and organizing resources is correct. This dual functionality makes tags incredibly useful for resource management and operational efficiency in Azure.

2. Does Azure DDoS Standard provide protection against all layers of attacks, including application layer attacks?

A. True

B. False

C. Only against protocol attacks

D. Only against volumetric attacks

Azure DDoS Standard does indeed provide protection against a wide range of Distributed Denial of Service (DDoS) attacks, encompassing both volumetric and protocol attacks, as well as application layer attacks. This comprehensive protection is essential for maintaining the availability and reliability of applications hosted in Azure. The service employs a variety of techniques, such as traffic monitoring and behavioral analysis, to distinguish between legitimate traffic and attack traffic. By doing so, Azure DDoS Standard can automatically mitigate attacks that originate at the application layer, thereby ensuring that application services remain operational even under attack. This capability to protect against all layers of attacks, including application layer threats, is particularly significant because application layer attacks often target the functionality of web applications and can be more challenging to identify and mitigate compared to other types of attacks. Therefore, the assertion that Azure DDoS Standard provides this level of comprehensive protection is accurate and highlights its role in enhancing the security posture of applications hosted in Azure.

3. What is the strongest way to protect sensitive customer data?

A. Encrypt data as it sits in your database.

B. Encrypt data as it travels over the network.

C. Encrypt data both as it sits in your database and as it travels over the network.

D. Use access controls to limit data exposure.

The strongest way to protect sensitive customer data is to encrypt both data at rest and data in transit. By encrypting data while it sits in your database, you ensure that even if unauthorized access occurs, the information remains unreadable without the appropriate decryption keys. This protects sensitive information from being exposed through data breaches or unauthorized access to storage systems. Simultaneously, encrypting data while it travels over the network safeguards it from interception during transmission. This means that even if attackers try to capture the data as it moves across the network, they would only obtain encrypted information, which is much more difficult to exploit. Combining both methods provides a comprehensive security strategy, ensuring that sensitive data is protected at all stages of its lifecycle, whether it's stored or being transmitted. This dual-layered approach significantly enhances the security posture and reduces the risk of data breaches.

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4. What should you be concerned about when notified of multiple authentication attempts with different passwords?

A. Suspected brute force attack

B. Suspected identity theft (pass-the-hash)

C. Network congestion

D. Normal user behavior

Being notified of multiple authentication attempts with different passwords typically indicates a possible brute force attack. In this scenario, an attacker is trying to gain unauthorized access to an account by systematically guessing passwords. This situation is concerning because it reflects a deliberate effort by an unauthorized entity to access systems or data, often through an automated process that can try numerous combinations quickly. Concerns arise primarily from the potential for data breaches and compromised user accounts if such attacks are successful. Identifying and mitigating these attempts is crucial to maintaining security. The concept of suspected identity theft, while relevant, is less directly associated with multiple failed attempts using different passwords than brute force activity. Normal user behavior wouldn't typically involve a high frequency of login attempts with different passwords, nor does network congestion relate to this concern. It is essential to address any abnormal access behavior to protect sensitive information and uphold security protocols.

5. Is a virtual network scoped to a single region?

A. True

B. False

C. Depends on configuration

D. Only for certain services

A virtual network in Azure is indeed scoped to a single region. This means that the network resources, such as virtual machines, subnets, and network interfaces, reside within that specific geographical area. When you create a virtual network, it exists within a specific Azure region and cannot extend across multiple regions. This regional limitation is crucial for ensuring low latency and efficient connectivity within the network resources. While there are related components that can span multiple regions, such as virtual network peering, the virtual network itself is confined to its designated region. This design helps in organizing resources and provides a clear structure for managing network connectivity and security within the Azure infrastructure. Manufacturers may offer services or architectures that allow for cross-region connections or capabilities, but the fundamental concept remains that a single virtual network is local to one region.

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6. What uses the DNS server closest to the user to direct traffic to a globally distributed endpoint?

A. Traffic Manager

B. Gateway

C. Network security group

D. Load balancer

Traffic Manager is designed to optimize the distribution of user traffic to various endpoints based on the DNS server closest to the user. It employs DNS-based routing to guide users to the nearest or best performing services, which helps improve response times and user experiences by minimizing latency. This capability is crucial for applications deployed across multiple geographic regions, as it allows Azure to leverage its global network to route requests intelligently. Traffic Manager can utilize different routing methods, such as performance routing, geographic routing, and weighted routing, to further enhance traffic management according to specific user needs. The other choices contribute differently within the Azure ecosystem. A gateway typically serves as a point of entry for network communications, while a network security group focuses on regulating inbound and outbound traffic to network interfaces or subnets. Load balancers, although they help distribute incoming traffic across multiple servers, operate at a different layer and do not direct traffic based on the proximity of DNS servers. Thus, Traffic Manager is the most suitable option for directing traffic utilizing DNS proximity to globally distributed endpoints.

7. What is the main use case for Azure Data Lake Storage?

A. Organizing data with SQL databases

B. High-speed transactional processing

C. Large-scale analytics of big data

D. Hosting web applications

The main use case for Azure Data Lake Storage is indeed centered around large-scale analytics of big data. Azure Data Lake Storage is specifically designed to handle vast amounts of unstructured and structured data, making it an optimal choice for big data analytics and processing. By leveraging its capabilities, organizations can ingest, store, and analyze large datasets efficiently, facilitating advanced analytics and data processing scenarios that traditional storage solutions might struggle with. Its architecture supports high-throughput and low-latency capabilities, allowing for the storage of raw data in its native format. Data scientists and analysts can then access this data to perform complex queries, machine learning, and data exploration, enabling insights that drive decision-making. While other options like organizing data with SQL databases, high-speed transactional processing, and hosting web applications are important functions of various Azure services, they do not align with the primary purpose of Azure Data Lake Storage, which is tailored for scalable data storage and analytics.

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8. Which feature of Azure Monitor allows you to visually analyze telemetry data?

A. Application insights

B. Service Health

C. Metrics

D. Alerts

Application Insights is a powerful feature of Azure Monitor that enables users to visually analyze telemetry data generated by their applications. It provides detailed insights into application performance, user engagement, and errors. By using Application Insights, developers and IT professionals can track requests, exceptions, and dependencies, which are presented in an intuitive dashboard format. This visualization helps them understand performance bottlenecks, track usage patterns, and identify anomalies in real-time, ultimately leading to better decision-making and performance optimization. The other options serve different purposes within Azure Monitor. Service Health provides insights into the health of Azure services and alerts for service incidents but does not focus on telemetry data visualization. Metrics offer a way to track resource performance over time but are more focused on recording numerical data rather than providing a comprehensive analysis. Alerts are designed to notify users of specific conditions or thresholds being met but do not directly analyze or visualize the telemetry data. Each of these tools plays a crucial role in monitoring and maintaining Azure environments, but Application Insights stands out for its capability to create visual representations of application telemetry data.

9. What is the maximum length of time you can use an Azure free subscription before it expires?

A. 12 months

B. 30 days

C. 24 months

D. 6 months

The Azure free subscription is designed to provide users with the opportunity to explore and experiment with Azure services without incurring costs for a limited time. The maximum duration for which you can utilize an Azure free subscription is 12 months. During this period, users gain access to a range of free services and a monetary credit that can be used toward paid services, allowing them to familiarize themselves with the Azure platform and its functionalities. This extended time frame supports learning and development goals, equipping users to understand cloud solutions better before committing to a paid subscription or long-term service usage.

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10. For which type of data collection do you need to enable diagnostics in Azure Monitor?

A. Usage of web applications

B. Container workload performance

C. Linux virtual machine (VM) health

D. Event logs

Enabling diagnostics in Azure Monitor is essential for collecting detailed telemetry and performance data from various Azure resources. Specifically for event logs, diagnostics provide the ability to capture system and application events, including errors, warnings, and other significant occurrences that may impact the health or performance of services. When diagnostics are enabled for event logs, information can be streamed directly to Azure Monitor, where it can be analyzed to identify issues, monitor compliance, and maintain security. This capability is crucial for administrators and developers who need insights into the functioning of their applications and services running on Azure. While data collection is also relevant for other types, such as the usage metrics of web applications and performance metrics from container workloads or virtual machine health, those typically gather data through different diagnostic settings that focus on various performance indicators, metrics, or usage analytics rather than specifically event logging. Therefore, diagnostics are particularly vital for event logs, as they encapsulate detailed records that allow for deeper analysis of incidents and operational events.

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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://az900.examzify.com

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

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