

# **MICROSOFT CERTIFIED: AZURE FUNDAMENTALS (AZ- 900) PRACTICE EXAM (SAMPLE) STUDY GUIDE**



## **SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS**

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THE FULL VERSION STUDY GUIDE**

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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 a significant benefit of using a public cloud?**

- A. Increased control over hardware configurations
- B. Availability of unlimited resources without costs
- C. Pay-as-you-go pricing structure
- D. Obligation to enter long-term contracts

**2. What is a zone in Azure?**

- A. A geographical grouping of Azure regions used to determine billing based on hours of activity
- B. A geographical grouping of Azure regions used to determine billing based on data transfers
- C. A geographical grouping of Azure regions used to determine billing based on resource deployment
- D. A geographical grouping of Azure regions used to determine billing based on peak usage periods

**3. What is the purpose of the TCO Calculator in Azure?**

- A. To estimate service use
- B. To forecast traffic loads
- C. To estimate cost savings

**4. Which of the following is not a feature of resource groups?**

- A. Resources can be in only one resource group.
- B. Resources can be moved from one resource group to another.
- C. Resource groups can be nested.
- D. Role-based access control can be applied to the resource group.

**5. What service should you use to prevent your public-facing website from being overwhelmed by an attack?**

- A. DDoS protection
- B. Azure Firewall
- C. Network Security Group
- D. Application Gateway

- 6. 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
- 7. When should you use Azure Resource Manager?**
- A. To monitor resource use and generate management reports
  - B. To perform basic management tasks, such as starting and stopping a VM
  - C. To coordinate resource use between on-premises and cloud-based resources
  - D. To automate resource deployments using templates
- 8. What is the main purpose of Azure Monitor?**
- A. To ensure compliance with regulations
  - B. To create virtual machines
  - C. To analyze data streams
  - D. To monitor application performance and availability
- 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. Your company requires Azure phone support at any time with a response within the hour. What is the least expensive support plan you should choose?**
- A. Professional Direct
  - B. Standard
  - C. Developer
  - D. Premier

## **Answers**

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

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## **Explanations**

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## 1. What is a significant benefit of using a public cloud?

- A. Increased control over hardware configurations
- B. Availability of unlimited resources without costs
- C. Pay-as-you-go pricing structure**
- D. Obligation to enter long-term contracts

A significant benefit of using a public cloud is the pay-as-you-go pricing structure. This model allows organizations to only pay for the resources they consume, making it a flexible and cost-effective option. Businesses can scale their usage up or down based on demand, avoiding the high upfront costs associated with purchasing physical infrastructure. This pricing strategy is particularly advantageous for startups and enterprises that want to manage costs effectively while having the ability to quickly adapt to changing needs. Other options reflect characteristics that do not align with the typical benefits of a public cloud. For instance, increased control over hardware configurations is more associated with private clouds, where organizations have more direct control over their hardware resources. The notion of unlimited resources without costs is misleading, as while public clouds do offer scalability, usage will incur charges. Finally, the obligation to enter long-term contracts is usually characteristic of on-premises solutions or certain vendor arrangements, rather than the flexible, commitment-free nature often found in public cloud services.

## 2. What is a zone in Azure?

- A. A geographical grouping of Azure regions used to determine billing based on hours of activity
- B. A geographical grouping of Azure regions used to determine billing based on data transfers**
- C. A geographical grouping of Azure regions used to determine billing based on resource deployment
- D. A geographical grouping of Azure regions used to determine billing based on peak usage periods

A zone in Azure refers to a geographical grouping of Azure regions that is specifically utilized to enhance the availability and resilience of applications. This context is important for understanding how zones function within Azure architecture. The correct choice emphasizes that zones are indeed a method of managing resources geographically; however, it specifically centers on the purpose of these zones in relation to data transfers. Azure leverages these groupings to optimize data flow between regions, which can lead to better performance and cost efficiency regarding data movement and associated charges. Understanding the essence of a zone in Azure highlights its role in availability, connectivity, and resource management, ensuring that applications remain resilient across different geographical locations.

## 3. What is the purpose of the TCO Calculator in Azure?

- A. To estimate service use
- B. To forecast traffic loads
- C. To estimate cost savings**

The TCO (Total Cost of Ownership) Calculator in Azure is designed to help organizations estimate the potential cost savings associated with moving to the cloud compared to maintaining on-premises infrastructure. By using this tool, businesses can evaluate their current IT costs and understand how transitioning to Azure might lower those expenses over time. The calculator takes into account various factors such as hardware, software, maintenance, and personnel costs, enabling users to make informed financial decisions regarding cloud adoption. While estimating service use and forecasting traffic loads are important aspects of cloud planning, the specific purpose of the TCO Calculator is to provide insights into cost efficiencies and savings, which is crucial for organizations considering the financial implications of their cloud strategy.

#### 4. Which of the following is not a feature of resource groups?

- A. Resources can be in only one resource group.
- B. Resources can be moved from one resource group to another.
- C. Resource groups can be nested.
- D. Role-based access control can be applied to the resource group.

*The correct answer is that resource groups cannot be nested. In Azure, resource groups serve as containers for resources such as virtual machines, databases, and networking components, facilitating resource management and organization. However, Azure does not allow for the nesting of resource groups; each resource group is a flat structure where resources are directly assigned to a single group. The other statements accurately reflect features of resource groups. Resources can indeed belong to only one resource group at a time, ensuring clear ownership and management of resources. Additionally, Azure allows for the movement of resources between resource groups, which can be helpful for reorganizing resources as project needs change or for managing billing and access. Finally, role-based access control (RBAC) can be applied at the resource group level, allowing for granular permissions and ensuring that users only have access to the resources they need. This capability is essential for maintaining security and governance within Azure environments.*

#### 5. What service should you use to prevent your public-facing website from being overwhelmed by an attack?

- A. DDoS protection
- B. Azure Firewall
- C. Network Security Group
- D. Application Gateway

*DDoS protection is the appropriate service to use for preventing your public-facing website from being overwhelmed by an attack, specifically by Distributed Denial of Service (DDoS) attacks. DDoS attacks aim to make a service unavailable by flooding it with traffic, which can lead to service outages and disruption. DDoS protection in Azure is specifically designed to detect and mitigate these attacks in real-time, enabling the website to maintain availability even during an attack. This service includes features like always-on traffic monitoring and automatic attack mitigation, which are crucial for maintaining performance and availability. While other options mentioned have their own security functions, they address different aspects of network and application security rather than the specific threat of DDoS attacks. For example, Azure Firewall provides network filtering and protection, focusing on controlling traffic flow and securing access, while Network Security Groups are used for managing inbound and outbound traffic at the subnet or network interface level. Application Gateway can provide some features like Web Application Firewall (WAF) and load balancing but does not specifically target DDoS threats. Therefore, DDoS protection is the specialized service that directly addresses the need to safeguard a public-facing website from overwhelming traffic due to attacks.*

**6. 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.*

**7. When should you use Azure Resource Manager?**

- A. To monitor resource use and generate management reports
- B. To perform basic management tasks, such as starting and stopping a VM
- C. To coordinate resource use between on-premises and cloud-based resources
- D. To automate resource deployments using templates**

*Using Azure Resource Manager to automate resource deployments using templates is the most appropriate choice. Azure Resource Manager (ARM) is designed to provide a systematic way of managing your resources through infrastructure as code. By using ARM templates, you can define the resources needed for your solution in a declarative way, and these templates can automate the deployment across multiple environments, ensuring consistency and repeatability. Automating resource deployments with templates allows teams to manage complex environments with ease. For instance, you can deploy entire environments with just a single command, significantly reducing the chances of human error and streamlining the process of infrastructure management. The other options, while related to resource management, do not capture the primary purpose of Azure Resource Manager as effectively. Monitoring resource use and generating management reports typically involves using tools like Azure Monitor rather than ARM directly. Performing basic management tasks such as starting and stopping a virtual machine can be done through various interfaces, including the Azure Portal, PowerShell, and CLI, without necessarily leveraging the full capabilities of Azure Resource Manager. Coordinating resource use between on-premises and cloud-based resources is more aligned with Azure Arc and hybrid solutions, rather than the specific deployment and management features provided by ARM.*

## 8. What is the main purpose of Azure Monitor?

- A. To ensure compliance with regulations
- B. To create virtual machines
- C. To analyze data streams
- D. To monitor application performance and availability**

*The main purpose of Azure Monitor is to monitor application performance and availability. This service provides comprehensive insights into both the performance of applications and the health of resources across your Azure environment. By collecting and analyzing telemetry data from various Azure services, applications, and other resources, Azure Monitor enables users to gain a deeper understanding of how their applications are performing in real-time. With this monitoring capability, users can quickly identify issues, receive alerts, and access detailed analytics, which fosters more effective troubleshooting and enhances the overall user experience. Additionally, Azure Monitor supports the integration of monitoring solutions across different platforms, making it a key tool for maintaining robust, high-performing applications. While ensuring compliance with regulations is important for many organizations, and the creation of virtual machines is a fundamental function within Azure, those aspects are not the primary focus of Azure Monitor. Similarly, analyzing data streams is a valuable function, yet it does not encapsulate the comprehensive monitoring capabilities tailored for application performance and resource health that Azure Monitor provides.*

## 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.*

**10. Your company requires Azure phone support at any time with a response within the hour. What is the least expensive support plan you should choose?**

A. Professional Direct

**B. Standard**

C. Developer

D. Premier

*The Standard support plan is the appropriate choice for a company that requires Azure phone support at any time with a response time within one hour. This plan provides 24/7 access to support engineers and ensures that the company can receive timely assistance whenever needed. With a response time guarantee of less than one hour for critical issues, it meets the requirement for urgent phone support. The Professional Direct support plan, while offering more extensive services, including faster response times and additional resources, comes at a higher cost, making it less suitable for companies looking to minimize expenses. The Developer support plan, on the other hand, is designed primarily for non-production workloads and has limited support options, which wouldn't fulfill the company's need for immediate assistance. Finally, the Premier support plan is the highest tier available, providing comprehensive services and dedicated support but would also exceed the budget for those seeking the least expensive option. Therefore, the Standard support plan strikes the right balance between cost and support requirements.*

## 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](mailto: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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