

Microsoft Certified: Azure Fundamentals (AZ-900) 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

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- 1. Which of the following would be good to put a resource lock on?**
 - A. An ExpressRoute circuit with connectivity back to your on-premises network.**
 - B. A non-production virtual machine used to test occasional application builds.**
 - C. A storage account used to temporarily store images processed in a development environment.**
 - D. A testing database with sensitive information.**
- 2. What is the maximum number of tags that can be applied to a resource in Azure?**
 - A. 10**
 - B. 20**
 - C. 25**
 - D. 50**
- 3. What is equipped for managing traffic to your web applications?**
 - A. Azure Application Gateway**
 - B. Availability Set**
 - C. Scale Set**
 - D. Virtual Network Gateway**
- 4. Your company plans to deploy to the Azure cloud three virtual machines (VMs) and a Load Balancer. Which tool should you use to estimate the cost of using all four resources?**
 - A. Cost Management**
 - B. Total Cost of Ownership (TCO) calculator**
 - C. Azure Advisor**
 - D. Azure Pricing Calculator**

5. Which type of VPN allows creating a secure connection to your virtual network from an individual client computer?

- A. Site-to-Site VPN**
- B. Point-to-Site VPN**
- C. ExpressRoute**
- D. Site-to-Site Gateway**

6. Your company aims to ensure compliance of Azure resources with internal standards. What solution is recommended for this purpose?

- A. Role-based access control (RBAC)**
- B. Azure Monitor**
- C. Azure Policies**
- D. Azure Advisor**

7. Which Azure service allows you to create, assign, and manage policies to enforce different rules and effects over your resources?

- A. Azure Policy**
- B. Azure Blueprints**
- C. Azure Security Center**
- D. Role-based Access Control**

8. Which service monitors the availability, performance, and usage of web applications?

- A. Azure Service Health**
- B. Azure Monitor**
- C. Compliance Manager**
- D. Application Insights**

9. What is the most appropriate Azure solution to query and transform data for insights?

- A. Data Lake Analytics**
- B. CosmosDB**
- C. Blob Storage**
- D. Azure SQL Database**

10. What are Azure services for network security?

- A. Virtual network security**
- B. Azure Application Gateway**
- C. Azure Firewall**
- D. All of the above**

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Answers

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

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Explanations

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1. Which of the following would be good to put a resource lock on?

- A. An ExpressRoute circuit with connectivity back to your on-premises network.**
- B. A non-production virtual machine used to test occasional application builds.**
- C. A storage account used to temporarily store images processed in a development environment.**
- D. A testing database with sensitive information.**

Placing a resource lock on an ExpressRoute circuit with connectivity back to your on-premises network is appropriate because it is a critical network resource that facilitates secure and private connections. Given that it links on-premises infrastructure to Azure services, maintaining its integrity and preventing accidental deletion or modification is essential for ensuring consistent and reliable connectivity. A resource lock helps safeguard such configurations, ensuring that essential networking functions remain intact, which is vital for operational continuity. In contrast, while other resources, such as virtual machines or testing databases, might benefit from protection, they are generally more flexible and can be recreated or are not as fundamental to the overall connectivity and security of your Azure environment as the ExpressRoute circuit. The storage account used for temporary image processing and the non-production virtual machine typically have less critical roles compared to the ExpressRoute, as they are part of a development workflow that can be modified or rebuilt with relative ease without significant impact on overall operations.

2. What is the maximum number of tags that can be applied to a resource in Azure?

- A. 10**
- B. 20**
- C. 25**
- D. 50**

The maximum number of tags that can be applied to a resource in Azure is 50. Tags in Azure are key-value pairs that help in organizing resources and managing billing. They provide a way to categorize resources for better management and reporting. While the answer provided states 15, it's important to note that Azure has a limit of 50 tags per resource, which allows for substantial flexibility in organizing and managing resources across different departments, projects, or applications. This capability enables users to implement efficient governance and cost management strategies by tagging resources according to their needs. In summary, understanding the correct maximum number of tags helps users effectively manage their resources and make informed decisions regarding organization and cost tracking within Azure.

3. What is equipped for managing traffic to your web applications?

- A. Azure Application Gateway**
- B. Availability Set**
- C. Scale Set**
- D. Virtual Network Gateway**

The correct choice is Azure Application Gateway because it is specifically designed to manage and route traffic to web applications. It serves as a web traffic load balancer, providing various features such as SSL termination, session affinity, and URL-based routing. This enables efficient distribution of incoming web traffic across multiple servers, enhancing the performance and reliability of applications. Azure Application Gateway also includes advanced capabilities like Web Application Firewall (WAF) to help protect applications from common web vulnerabilities. Therefore, it is optimally equipped for handling traffic management in the context of web applications. In contrast, the other options do not serve the same purpose. An Availability Set is focused on ensuring high availability and redundancy for virtual machines by grouping them in a way that minimizes downtime. A Scale Set allows for automatic scaling of applications and managing large numbers of identical virtual machines, but it does not directly manage incoming traffic to those applications. A Virtual Network Gateway facilitates communication between Azure Virtual Networks and on-premises networks but is not designed for managing traffic specifically to web applications.

4. Your company plans to deploy to the Azure cloud three virtual machines (VMs) and a Load Balancer. Which tool should you use to estimate the cost of using all four resources?

- A. Cost Management**
- B. Total Cost of Ownership (TCO) calculator**
- C. Azure Advisor**
- D. Azure Pricing Calculator**

The Azure Pricing Calculator is the most appropriate tool to estimate the cost of deploying specific resources such as virtual machines and a load balancer in the Azure cloud. This tool allows users to select various Azure products and services, input configuration details, and generate an estimated monthly cost based on the chosen specifications. Using the Azure Pricing Calculator, you can customize each resource's specifications, like VM size, operating system, and region, which provides a detailed and accurate cost estimate for the deployment. This level of detail helps organizations understand their potential financial commitments and budget accordingly. While the other tools mentioned have their purposes, they do not focus specifically on estimating costs for planned resource deployments. The Cost Management tool is primarily used for tracking and managing resource costs after they have been deployed. The Total Cost of Ownership (TCO) calculator is used to assess the long-term costs of running on-premises workloads versus cloud solutions, which might not be as effective for a straightforward cost estimation of specific resources. Azure Advisor offers recommendations on best practices for Azure usage and configuration but does not provide a direct cost estimation feature.

5. Which type of VPN allows creating a secure connection to your virtual network from an individual client computer?

- A. Site-to-Site VPN**
- B. Point-to-Site VPN**
- C. ExpressRoute**
- D. Site-to-Site Gateway**

The correct answer is Point-to-Site VPN. This type of VPN is specifically designed to enable a secure connection from an individual client computer directly to a virtual network in Azure. It allows remote users to securely access resources within a virtual network from anywhere on the internet. In a Point-to-Site VPN configuration, the connection is established from a single client device to the Azure virtual network, often using the OpenVPN or SSTP protocols. This setup is particularly beneficial for remote workers or users who need to access the resources of the virtual network without requiring a full site-to-site connection. On the other hand, a Site-to-Site VPN is used to connect entire networks to each other, facilitating communication between two or more networks through a secure connection. ExpressRoute provides a dedicated, private connection that bypasses the public internet for increased security and reliability but does not cater to individual client connections. A Site-to-Site Gateway term usually refers to the component facilitating a Site-to-Site VPN, and it also does not address individual client connectivity needs.

6. Your company aims to ensure compliance of Azure resources with internal standards. What solution is recommended for this purpose?

- A. Role-based access control (RBAC)**
- B. Azure Monitor**
- C. Azure Policies**
- D. Azure Advisor**

The recommended solution for ensuring compliance of Azure resources with internal standards is Azure Policies. Azure Policies allow organizations to define specific rules and requirements that Azure resources must adhere to, ensuring compliance with internal governance and regulatory standards. By implementing policies, companies can enforce configurations, restrict certain resource types, and validate resource compliance across their Azure environments. Azure Policies can evaluate compliance at various levels, such as subscriptions or resource groups, and they help automate the enforcement of rules, making it easier for organizations to maintain a compliant cloud environment. Additionally, Azure Policy provides detailed reporting on compliance status, which aids in monitoring and management. While role-based access control (RBAC) manages user permissions, Azure Monitor focuses on monitoring resources for performance and health, and Azure Advisor provides best practices for optimizing Azure resources, none of these specifically address the requirement for compliance with internal standards in the same way that Azure Policies do.

7. Which Azure service allows you to create, assign, and manage policies to enforce different rules and effects over your resources?

- A. Azure Policy**
- B. Azure Blueprints**
- C. Azure Security Center**
- D. Role-based Access Control**

The correct answer is Azure Policy because it is specifically designed to help organizations manage and enforce compliance across their Azure resources. Azure Policy allows you to define rules, policies, and effects that can be applied to resources, helping ensure they comply with required standards and regulations. With Azure Policy, you can create policies that can either allow or deny specific actions and configurations, track compliance, and automatically remediate resources that are out of compliance. This functionality is essential for governance and maintaining control over resource deployment in Azure, assisting organizations in managing their cloud environment consistently. Other services mentioned, such as Azure Blueprints, are focused on packaging and deploying a set of resources with policies and resource templates but are not primarily intended for ongoing enforcement and management of individual resource policies. Azure Security Center provides security management and threat protection but does not focus specifically on policy enforcement. Role-based Access Control manages permissions and access to Azure resources but does not define policies relating to the configuration and compliance of those resources.

8. Which service monitors the availability, performance, and usage of web applications?

- A. Azure Service Health**
- B. Azure Monitor**
- C. Compliance Manager**
- D. Application Insights**

Application Insights is the correct choice as it is specifically designed to monitor the availability, performance, and usage of web applications. This service provides developers and IT professionals with powerful insights into how their applications are performing in real-time, allowing them to detect issues, diagnose them, and improve their application's performance and user experience. Application Insights tracks a wide range of metrics, including response times, failure rates, and the number of user sessions, ensuring that you can evaluate how well your application is functioning and identify any areas that may require improvement. This service is deeply integrated with various development tools and supports various platforms, making it an essential part of application lifecycle management. Azure Monitor, while it provides monitoring capabilities across various Azure services, is broader in scope and covers much more than just web applications. It serves as a comprehensive solution for monitoring and managing Azure resources at a high level. Azure Service Health provides insight into the health of Azure services and alerts users about incidents and issues affecting Azure resources, but it does not focus specifically on individual web applications. Compliance Manager helps organizations manage compliance requirements and data protection standards, but it does not monitor application performance or usage. Therefore, Application Insights stands out as the most suitable service to monitor web applications specifically.

9. What is the most appropriate Azure solution to query and transform data for insights?

- A. Data Lake Analytics**
- B. CosmosDB**
- C. Blob Storage**
- D. Azure SQL Database**

The most appropriate Azure solution for querying and transforming data for insights is Data Lake Analytics. This service is specifically designed to handle large-scale data processing and analytics. It allows users to run queries using a variety of languages such as U-SQL, an SQL-like language that integrates the concepts of SQL with C#. This capability makes it well-suited for transforming large datasets stored in Azure Data Lake Storage and enables users to extract valuable insights efficiently. Data Lake Analytics provides a serverless approach, meaning that users pay only for the resources they consume during their analytics jobs, which can help manage costs associated with data processing tasks. It also integrates seamlessly with other Azure services, facilitating the end-to-end analytics workflow from data ingestion to transformation and visualization. While other options like CosmosDB and Azure SQL Database are powerful for managing structured and unstructured data, they are primarily databases rather than analytics platforms focused on large-scale transformation and insightful querying. Blob Storage serves as a storage solution for unstructured data but does not provide built-in analytics capabilities. Therefore, Data Lake Analytics stands out as the suitable choice for this use case.

10. What are Azure services for network security?

- A. Virtual network security**
- B. Azure Application Gateway**
- C. Azure Firewall**
- D. All of the above**

All the listed options represent Azure services designed to enhance network security, making "all of the above" the correct answer. Virtual network security involves measures and tools offered by Azure to protect your virtual networks, including network segmentation, private networks, and the configuration of security policies. It ensures that traffic between resources within your virtual network is secure. Azure Application Gateway acts as a web traffic load balancer and includes a built-in web application firewall (WAF) service. This helps protect your web applications from common threats and vulnerabilities, securing HTTP traffic. Azure Firewall is a cloud-native network security service that protects Azure Virtual Network resources. It provides a centralized, highly available network protection layer to manage and enforce settings, as well as application-level protections. Since each of these components plays an essential role in securing your Azure network environments, consolidating them under the umbrella of network security services reinforces the comprehensive nature of Azure's offerings in this area.

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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