

# Quiz: Azure Key Services

# Instructions

This quiz will test your understanding of Azure Key Services. Please answer each question to the best of your ability. The last page contains an answer key.

## Questions

1. **What Azure service allows you to create and manage virtual machines?**
  - a) Azure Functions
  - b) Azure App Services
  - c) Azure Virtual Machines
  - d) Azure SQL Database
2. **Which Azure service is used to build, deploy, and scale web apps easily?**
  - a) Azure Virtual Machines
  - b) Azure App Services
  - c) Azure Functions
  - d) Azure Blob Storage
3. **What feature of Azure Functions allows it to handle a sudden increase in events?**
  - a) Static Scaling
  - b) Automatic Scaling
  - c) Manual Scaling
  - d) Periodic Scaling
4. **Which programming languages are supported by Azure Functions?**
  - a) C#, JavaScript, Python, Java, PowerShell
  - b) Ruby, PHP, Perl, Scala
  - c) COBOL, Fortran, Pascal
  - d) Swift, Kotlin, Rust
5. **What is the primary benefit of using Azure Functions for compute tasks?**
  - a) Requires dedicated hardware
  - b) Serverless computing with automatic scaling
  - c) Fixed monthly costs
  - d) High setup complexity

**6. What is an Azure Virtual Network (VNet)?**

- a) A network security service
- b) A service to store large files
- c) A logically isolated network for Azure resources
- d) A database management service

**7. Which service provides load balancing for applications in Azure?**

- a) Azure Traffic Manager
- b) Azure Application Gateway
- c) Azure Load Balancer
- d) Azure CDN

**8. What does an Azure Network Security Group (NSG) do?**

- a) Manages database connections
- b) Controls inbound and outbound traffic to network interfaces, VMs, and subnets
- c) Provides storage for virtual machines
- d) Manages user authentication and authorization

**9. Which feature of Azure Application Gateway allows for intelligent routing based on URL paths?**

- a) URL-based Routing
- b) IP-based Routing
- c) Path-based Routing
- d) Source-based Routing

**10. What benefit does SSL termination provide in Azure Application Gateway?**

- a) Encrypts backend traffic
- b) Decrypts incoming traffic to offload work from web servers
- c) Routes traffic based on geographical location
- d) Provides static IP addresses

**11. Which Azure storage service is optimized for storing large amounts of unstructured data?**

- a) Azure Blob Storage
- b) Azure File Storage
- c) Azure Queue Storage
- d) Azure Table Storage

**12. What type of data is best suited for Azure Queue Storage?**

- a) File shares
- b) Structured query data
- c) Messages for asynchronous processing
- d) Large binary files

**13. Which type of Azure Blob is ideal for logging activities and transactions?**

- a) Block Blob
- b) Page Blob
- c) Append Blob
- d) File Blob

**14. What is a primary use case for Azure Table Storage?**

- a) Streaming video content
- b) Storing relational database records
- c) Storing large binary files
- d) Storing key-value pairs for rapid development

**15. What benefit does Azure File Storage provide?**

- a) It offers a NoSQL database solution
- b) It provides shared file storage accessible via SMB protocol
- c) It manages message queues
- d) It stores backup data for virtual machines

**16. What is Azure SQL Database?**

- a) A NoSQL database service
- b) A fully managed relational database service
- c) A cloud storage solution for binary data
- d) A service for creating virtual networks

**17. Which feature of Azure SQL Database helps optimize performance automatically?**

- a) Manual indexing
- b) Automated Tuning
- c) Custom queries
- d) Static scaling

**18. What is Azure Cosmos DB designed for?**

- a) Hosting virtual machines
- b) Managing network traffic
- c) Providing a globally distributed, multi-model database service
- d) Storing large binary objects

**19. Which of the following databases is NOT offered as a fully managed service in Azure?**

- a) MySQL
- b) PostgreSQL
- c) MariaDB
- d) Oracle DB

**20. What advantage does Azure SQL Database's advanced threat protection offer?**

- a) Reduces the cost of database operations
- b) Enhances security by detecting and responding to potential threats
- c) Improves performance through query optimization
- d) Manages database backups and restores automatically

**WARNING: The next page contains  
the answers to the quiz!**

# Answer Key

## Answer Key

1. C
2. B
3. B
4. A
5. B
6. C
7. C
8. B
9. C
10. B
11. A
12. C
13. C
14. D
15. B
16. B
17. B
18. C
19. D
20. B